IABA
HOUSING PRIVATE LIMITED

TE:23rd November, 2026

To

The Incharge,

Ministry of Environment, Forest & Climate Change, Govt. of India,

Integrated Regional Office,

IB-198, Sector-III,

Salt Lake City,

Kolkata - 700106

Subject: Six Monthly Compliance Report for the period*- of April, 2026 to September, 2026 for Proposed affordable Housing Complex OF M/S IABA HOUSING PVT. LTD. AT LR PLOT NOS.- 5650 (P), 5708 (P), 5710(P), 5711 (P), 5712 (P), 5713 (P), 5714 (P), 5716 (P), 5718 (P), 5719 (P), 5720, 5721 (P), 5722 (P), 5723 (P), 5724, 5728 (P), 5729 (P), 5730 (P), 5731, 5732, 5733, 5734, 5735, 5736, 5737, 5738, 5739, 5740 (P), 5741, 5742 (P), 5743 (P), 5744, 5745, 5746 (P), 5747 (P), 5748 (P), 5749 (P), 5792 (P), 5793 (P), 5794 (P), 5820 (P), 5822 (P), and 5718/7748 (P), at L.R. Khatian No.- 36, Mouza: Dakshinkhanda, P.S.- Andal, Dist.: Paschim Bardhaman, West Bengal

Ref.: State Environment Impact Assessment Authority(SEIAA), West Bengal File No. EN/T-II-1/006/2022 , dated 3rd June, 2022

Dear Sir,

With reference to the above mentioned Environmental Clearance letter (File No. EN/T-II-1/006/2022 , dated 3rd June, 2022, we do hereby submit six monthly Compliance Report for the period of April, 2026 to September, 2026 for Proposed affordable Housing Complex OF M/S IABA HOUSING PVT. LTD. AT LR PLOT NOS.- 5650 (P), 5708 (P), 5710(P), 5711 (P), 5712 (P), 5713 (P), 5714 (P), 5716 (P), 5718 (P), 5719 (P), 5720, 5721 (P), 5722 (P), 5723 (P), 5724, 5728 (P), 5729 (P), 5730 (P), 5731, 5732, 5733, 5734, 5735, 5736, 5737, 5738, 5739, 5740 (P), 5741, 5742 (P), 5743 (P), 5744, 5745, 5746 (P), 5747 (P), 5748 (P), 5749 (P), 5792 (P), 5793 (P), 5794 (P), 5820 (P), 5822 (P), and 5718/7748 (P), at L.R. Khatian No.- 36, Mouza: Dakshinkhanda, P.S.- Andal, Dist.: Paschim Bardhaman, West Bengal

Thanking you,

Yours faithfully,

Fotr M/S IABA HOUSING PVT. LTD

IABA HOUSING PRIVATE LIMITED * DURGAPUR

Authoorised signatory

IABA HOUSING PRIVATE LIMITED * DURGAPUR

Encl.: as above.

COMPLIANCE REPORT OF

M/S IABA HOUSING PVT. LTD.

AT

LR PLOT NOS.- 5650 (P), 5708 (P), 5710(P), 5711 (P), 5712 (P), 5713 (P), 5714 (P), 5716 (P), 5718 (P), 5719 (P), 5720, 5721 (P), 5722 (P), 5723 (P), 5724, 5728 (P), 5729 (P), 5730 (P), 5731, 5732, 5733, 5734, 5735, 5736, 5737, 5738, 5739, 5740 (P), 5741, 5742 (P), 5743 (P), 5744, 5745, 5746 (P), 5747 (P), 5748 (P), 5749 (P), 5792 (P), 5793 (P), 5794 (P), 5820 (P), 5822 (P), & 5718/7748 (P),

L.R. KHATIAN NO.- 36,

MOUZA: DAKSHINKHANDA,

P.S.- ANDAL,

DIST.: PASCHIM BARDHAMAN,

WEST BENGAL

I. Statutory Compliance		
i.	The Project proponent shall obtain all necessary clearance/permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.	Already Complied
ii.	The approval of the Competent Authority shall be obtained for the structural safety of the buildings due to earthquakes, adequacy of firefighting equipment etc. as per National Building code including protection measures from lightening etc.	Already Complied Refer Annexure 13
iii.	The Project proponent shall obtain Forest Clearance under the provisions of Forest (Conservation) Act 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	Refer Annexure 8
iv.	The Project proponent shall obtain clearance from the National Board of Wildlife, if applicable.	NA
v.	The Project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974, from the concerned State Pollution Control Board/Committee.	Refer Annexure 2
vi.	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project shall be obtained.	Refer Annexure 4
vii.	The Project proponent shall obtain the necessary permission for drawal of ground water/surface water required for the project from the competent authority.	Refer Annexure 11
viii.	All other statutory clearances such as, the approvals of storage of diesel from Chief Controller of Explosives, Fire Dept, Civil Aviation Dept, shall be obtained, as applicable, by project proponents from the respective competent authority.	Refer Annexure 7
ix.	The provisions of the Solid Waste (Management) Rules, 2016, e-waste (Management) Rules, 2016, and Plastics Waste (Management) Rules, 2016, shall be followed.	Refer Annexure 10
x.	The Project proponent shall follow the	To be Complied

	ECBC/ECBC-R prescribed by the Bureau of Energy Efficiency, Ministry of Power, strictly.	
xi.	The Project proponent should strictly comply with the guidelines for High Rise Buildings, issued by MoEF, GOI vide no. 21-270/2008-IA, III dated 07.02.2012.	Already Complied
xii	The Project proponent shall comply with the EMP as proposed in terms of Office Memorandum issued by the MoEF & CC vide F. No. 22-65/2017-IA, III dated 30.0.2020.	Refer Annexure 6
II. Air Quality monitoring and preservation		
i.	Notification GSR 94 (E) dated 25.01.2018 of MoEF & CC regarding Mandatory Implementation Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environment Clearance shall be complied with.	To be Complied
ii.	A management plan shall be drawn up and implemented to obtain the current excedance in ambient air quality at the site.	Refer Annexure 6
iii.	The Project Proponent shall install system to carry out Ambient Air Quality monitoring for common/ criterion parameters relevant to the main pollutants released (eg, PM10 and PM25) covering upwind and downwind directions during the construction period.	Refer Annexure 1
iv.	Diesel power generating sets proposed as source of backup power should be enclosed type and conform to rules made under the Environment (Protection), Act 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur fuel is mandatory. The location of the DG set may be decided in consultation with the SPCB.	To be Complied
To be Complied v.	Construction site shall be adequately barricaded before the construction begins. Dust, smoke and other air pollution prevention measures shall be provided for the building as well as the site. Thes measures shall include screens for the building under construction, continuous dust/wind breaking walls all around the site (at least 3 meters height). Plastic/tarpaulin sheet covers shall be provided for	Complied

	vehicles bringing in sand, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.	
vi.	Sand, murram, loose soil, cement, stored on the site shall be covered adequately so as to prevent dust pollution.	To be Complied
vii.	Wet jet shall be provided for grinding and stone cutting.	To be Complied
viii.	Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.	To be Complied
ix.	All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules, 2016.	To be Complied
x.	The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.	To be Complied
xi.	The gaseous emissions from DG sets shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the Noise Pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the CPCB norms.	Refer Annexure I
xii.	For indoor air quality the ventilation provisions as per National Building Code of India.	To be Complied
III. Water quality monitoring and preservation		
i.	The natural drainage system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscapes and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.	To be Complied
ii	Buildings shall be designed to follow the natural	Complied

	topography as much as possible. Minimum cutting and filling should be done.	
iii.	Total fresh water use shall not exceed the proposed requirement as provided in the project details.	To be Complied
iv.	The quantity of fresh water usage, water recycling and rain water harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office of MoEF & CC along with SEIAA and WBPCB along with Six monthly monitoring Reports.	To be Complied
v.	A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.	Refer Annexure 11
vi.	At least 20% of open spaces as required by the local building bye-laws shall be pervious. Use of grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.	Already Complied
vii	Installation of dual pipe plumbing for supply of recycled water and others for flushing. Landscape, irrigation, car washing, thermal cooling, conditioning etc. and for supplying fresh water for drinking, cooking and bathing, etc shall be done.	Considered in Design and Drawing
viii	Use of water saving devices / fixtures (viz. low flow flushing systems, use of low flow faucets tap aerators etc.) for water conservation shall be incorporated in the building plan.	Considered in Design and Drawing
ix	Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.	Incorporated in Design
x	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and	Complied, RMC is being purchased from outside

	other best practices referred.	
xi.	The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Bylaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.	To be Complied
xii.	A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas ground water recharge is not feasible the rain should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.	To be Complied
xiii.	All recharge should be limited to shallow aquifer.	To be Complied
xiv	No ground water shall be used during construction phase of the project.	To be Complied
xv.	Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the State Water Investigation Directorate (SWID) in the matter. For approval shall be taken from the SWID for any ground water abstraction or dewatering.	Annexure 11
xvi.	Sewage shall be treated in the STP with tertiary treatment. The treatment effluent from STP shall be recycled/ re-used for flushing. AC make up water and gardening.	To be Complied
xvii.	No sewage or untreated effluent water would be discharged through storm water drains.	To be Complied
xviii	Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the STP shall be certified by an independent expert and report in this regard shall be submitted to the Regional office of MoEF & CC along with SEAIAA and WBPCB before the project is commissioned for operation. Treated waste water shall be reused on site	To be Complied

	for landscape, flushing, cooling tower and other end-uses. Excess treated water shall be discharged as per statutory norms notified by MoEF & CC. Natural treatment systems shall be promoted.	
xix	Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.	To be Complied
xx	Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on sewerage and Sewage Treatment Systems, 2013.	To be Complied
IV. Noise monitoring and prevention		
i	Ambient noise levels shall conform to residential area/commercial area/industrial area, silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental Pollution loads on the ambient air and noise quality shall be closely monitored during construction phase, so as to conform to the stipulated standards by CPCB/SPCB.	Refer Annexure I
ii	Noise level survey shall be carried out as per the prescribed guidelines and report in this regard shall be submitted to the Regional Office of the MoEF & CC along with SEIAA and WBPCB as a part of six-monthly compliance report.	To be Complied
iii	Accoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.	To be Complied
V. Energy Conservation Measures		
i.	Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the states which have notified their own ECBC, shall comply with the State ECBC.	To be Complied
ii.	Outdoor and Common Area lighting shall be LED	To be Complied
iii.	Concept of passive solar design that minimize energy	Already considered in

	consumption in building by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window and roof u-values shall be as per ECBC specifications.	Design
iv.	Energy conservation measures such as installation of CFLs/LEDs for the lighting area outside the building should be integral part of the project design and should be in place before project commissioning.	Already considered in Design
v.	Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the State level/ local building bye-laws requirement, whichever is higher.	To be Complied
vi.	Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.	To be Complied
VI. Waste Management		
i.	A certificate from the competent authority handling municipal solid wastes indicating the existing civic capacities for handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.	Refer Annexure 10
ii.	Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	To be Complied
iii.	Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of wastes. Solid waste shall be segregated into wet garbage and inert material.	To be Complied
iv.	Organic waste compost/ Vermiculture pit/ organic	To be Complied

	waste converter within the premises with a minimum capacity of 0.3kg/person/day must be installed.	
v	All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie-up must be done with authorized recyclers.	To be Complied
vi.	Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the SPCB.	To be Complied
vii.	Use of environment friendly materials in bricks, blocks and other construction materials shall be required for at least 20% of the construction material quantity. These include Fly ash bricks, hollow bricks, AACs, Fly ash lime gypsum blocks, Compressed earth blocks and other environment friendly material.	To be Complied
viii.	Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September 1999, and amended as on 27th August 2003 and 25th January 2016. Ready mixed concrete must be used in building construction	To be Complied
ix	Any wastes from construction and demolition activities related to shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules 2016	To be Complied
x	Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.	To be Complied
VII Water Body Conservation		
i	Existing water body (if any) should not be lined and their embankments should not be cemented. The water body should be kept in natural conditions without disturbing the ecological habitat.	To be Complied
VIII. Green Cover		
i	The unit should strictly abide by The West Bengal Trees (Protection and Conservation in Non-Forest Areas) Act, 2006 and subsequent rules. The proponent should undertake plantation of trees over at least 20% of the total area.	To be Complied
ii.	No tree can be felled/transplanted unless exigencies demand. Where absolute necessary, tree felling shall	Refer Annexure 9

	be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Dept. Plantations to be ensured species (cut) to species (planted).	
iii	The proponent should plant at least 650 nos of trees. 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. The project proponent should follow plantation plan approved by DFO, Durgapur Division vide Memo No. 5075/2-50 dated 01.02.2022.	Refer Annexure 9
iv.	Where the trees need to be cut with prior permission from the concerned Local authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.	To be Complied
v	Topsoil to be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.	To be Complied
	IX. Transport	
i.	A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment and safety of users. The road system can be designed with these basic criteria. a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic. b. Traffic calming measures. c. Proper design of entry and exit points. d. Parking norms as per local regulation.	To be Complied

ii.	Vehicles hired for bringing in construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and to be operated only during non-peak hours.	Refer Annexure 5
iii.	A detailed traffic management and traffic decongestation plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out or proposed to be carried out by the project or other agencies in this 05 kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development Dept and the PWD/competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.	Refer Annexure 5
X. Human Health Issues		
i.	All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.	To be Complied
ii.	For indoor air quality the ventilation provisions as per the National Building Code of India.	To be Complied
iii	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	To be Complied
iv	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	To be Complied
v	Occupational health surveillance of the workers shall	To be Complied

	be done on a regular basis.	
vi.	A First Air Room shall be provided in the project both during construction and operations of the project.	To be Complied
XI. Environment Management Plan (EMP)		
i.	The project proponent should submit the proposed EMP on a six monthly basis. The Office Memorandum issued by the MoEF & CC vide F. No. 22-65/2017-IA, III dated 30.09.2020 should be strictly followed.	Refer Annexure 6
ii.	Need based activities for local people is part of the EMP. Details of such activities submitted by the. Project Proponent is given in Annexure-1.	To be Complied
iii	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/ deviation/ violation of the environmental/forest/wildlife norms/conditions and/or share holders/ stake holders. The copy of the board resolution in this regard shall be submitted to the Regional Office of MoEF & CC along with SEIAA and WBPCB as part of six-monthly report.	To be Complied
iv	A separate environmental cell both at the project and company heard quarter level, with qualified personnel shall be set up under the control of Senior Executive, who will directly report to the head of the organization.	To be Complied
v	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental measures shall be kept in separate account and not to be diverted for any other purpose.	To be Complied
vi	Year wise progress of implementation of action plan shall be reported to the Regional Office of MoEF & CC along with SEIAA and WBPCB long with six monthly compliance report.	To be Complied
XII. Additional Condition		
i	The need based EMP proposed by the project proponent should be outside the project area.	To be Complied

XIII. Miscellaneous		
i	The environmental clearance accorded shall be valid for a period of 10 years for the proposed project.	Refer Annexure 3
ii	The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environmental clearance and the details of MoEF & CC/ SEIAA website where it is displayed.	To be Complied
iii	The copies of the environment clearance shall be submitted by the project proponent to the heads of Local bodies, Panchayats and Municipal bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	To be Complied
iv	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	To be Complied
v	The project proponent shall submit six monthly reports on the status of the compliance of the stipulated environment conditions, including results of monitored data on their website of the MoEF & CC at environment clearance portal with a copy to SEIAA and WBPCB	To be Complied
vi	The project proponent shall submit the environmental statement for each financial year in Form V to the concerned SPCB as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	To be Complied
vii	The project proponent shall inform the regional office of the MoEF & CC along with SEIAA and WBPCB, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	To be Complied
viii	The project authorities must strictly adhere to the stipulations made by the SPCB and the State Govt.	To be Complied
ix	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during their presentation to the SEAC.	To be Complied
x	No further expansions or modifications in the plant	To be Complied

	shall be carried out without prior approval of the SEIAA.	
xi	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	To be Complied
xii	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	To be Complied
xiii	The SEIAA reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.	
xiv	The Regional Office of the MoEF & CC/ SEIAA/ WBPCB shall monitor compliance of the stipulated conditions. The project authorities should extend full co-operation to the officers of the Regional Office of the MoEF & CC/ SEIAA/ WBPCB by furnishing the requisite data/ information/monitoring reports.	To be Complied
xv	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act,1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and may other Court of Law relating to the subject matter.	To be Complied
xvi	Any appeal against this EC shall lie with the NGT, if preferred, within a period of 30 days as prescribed under Section 16 of the NGT Act, 2010.	To be Complied

ANNEXURE 1

GREENVISION TEST REPORTS

GREENVISION

(A leading environmental research laboratory)
Recongnized by West Bengal Pollution Control Board
TC-15288
Urvashi Malhar, Phase II, MSAV-35, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216
Contact : 0343-2543019, 9732580459, 9433158173, email :greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF STACK GAS ANALYSIS

[FORMAT NO. : GV/LAB/FM/33A]

Sample is drawn by **M/s. Greenvision** — **U.L.R. No. : TC152882600000028F**

Report No.	: GV/AR/25-26/658	Sample Ref. ID	: AS-046-2026(4)
Name of Customer	: M/s. IABA Housing Pvt. Ltd.	Report Date	: 06.04.2026
Address of Customer	: Andal, Paschim Bardhaman.	Date of Sampling	: 25.03.2026
		Sample Received On	: 26.03.2026
Sample Description	: Stack Air	Analysis Started On	: 26.03.2026
Sampling Location	: D.G. Set	Analysis Completed On	: 26.03.2026
Sample Condition	: In GMF Thimble & Plastic Bottles	Time of Sampling	: 03:10 pm
Sampling Method	: CPCB, Emission Regulation (Part III)		
Testing Location	: At Laboratory		

A. GENERAL INFORMATION ABOUT STACK

01. Particulars of plant		: Housing Project		
02. Stack connected to		: D.G. Set (58.5 KVA)		
03. Material of construction		: M.S.		
04. Shape of stack		: Circular		
05. Height of stack from G.L (mtr)		: 1.83	from roof level (mtr)	: ---
06. Height of sampling from G.L (mtr)		: 1.83	from L.D.Z (mtr)	: ---
07. Internal stack diameter at sampling point (mtr)		: 0.0762		
08. Emission due to		: Burninig of H.S.D.		
09. Steam generation capacity:	(rated)	: ---	(running)	:---
10. Load of source:	(rated)	: 58.5 KVA	(running)	: 58.5 KVA

B. FUEL CHARACTERISTIC REPORT

01. Type of fuel used	: H.S.D.	
02. Calorific value (K-Cal/Kg): ---	03.Ash content (% by Wt): ---	04.Sulphur content (% by Wt): ---
05. Rated fuel consumption	: 9 Lit./Hr.	
06. Working fuel consumption	: 9 Lit./Hr.	

C. RESULTS OF GASEUS EMISSION SAMPLING		Test Method
01. Flue gas temperature (°C)	120	CPCB, Emission Regulation (Part III)
02. Barometric pressure (mm of Hg)	756.0	CPCB, Emission Regulation (Part III)
03. Velocity of flue gas (m/sec)	15.28	CPCB, Emission Regulation (Part III)
04. Quantity of gas flow (Nm^3/hr.)	189.49	CPCB, Emission Regulation (Part III)
05. Concentration of Particulate Matter (mg/ Nm^3)	64.94	IS:11255 (Part 1), 1985, Reaffirmed 2014
06. Particulate Matter normalized at 12% CO_2	---	IS:11255 (Part 1), 1985, Reaffirmed 2014
07. Concentration of SO_2 (mg/ Nm^3)	73.8	IS:11255 (Part 2), 1985, Reaffirmed 2014
08. Concentration of NO_2 (mg/ Nm^3)	39.84	IS:11255 (Part 3), 2008
09. Concentration of CO_2 (% V/V)	6.6	IS:13270:1992, Reaffirmed 2014
10. Concentration of CO (% V/V)	< 0.2	IS:13270:1992, Reaffirmed 2014
Pollution Control Device	**: Nil**	
Permanent Ladder and Platform	**: Not Required**	

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.
2. All the information under column A & B are supplied by the respective industry.
3. This certificate may not be reproduced in part or full without written permission of the management.
4. Retention period of tested sample (Thimble) is 6 months from the date of issue test report unless otherwise specified.

End of the report.....

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Contact : 0343-2543019, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF AMBIENT AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33A

Sample is drawn by **M/s. Greenvision** — **U.L.R. No. : TC152882600000022SF**

Report No.	: GV/AR/25-26/655	Sample Ref. ID	: AS-046-2026(1)
Name of Customer	: M/s. IABA Housing Pvt. Ltd.	Report Date	: 06.04.2026
Address of Customer	: Andal, Paschim Bardhaman.	Date of Sampling	: 25.03.2026 to 26.03.2026
Sample Description	: Ambient Air	Date of Receiving	: 26.03.2026
Sampling Location	: Near Main Gate of Project Site	Analysis Started On	: 26.03.2026
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Analysis Completed On	: 27.03.2026
Location of Testing	: At Laboratory	Time of Sampling	: 09:05 am to 09:05 am
Sampling Method	: CPCB, Emission Regulation (Part III)		

A. METROLOGICAL INFORMATION

Average Temperature (°C) : 31.5
Average Relative Humidity (%) : 78.0
Barometric Pressure (mm of Hg) : 756.0
Smell or Odour : No Remarkable Smell
Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of PM_{10}	$\mu g/m^3$	72.66	IS : 5182 (Part 23),2006
02.	Concentration of $PM_{2.5}$	$\mu g/m^3$	37.08	EPA CFR – 40 (pt 50) Appendix – 1 : 2003
03.	Concentration of SO_2	$\mu g/m^3$	7.87	IS : 5182 (Part 2),2006
04.	Concentration of NO_2	$\mu g/m^3$	34.06	IS : 5182 (Part 6),2006

Limit : ($\mu g/m^3$) National Ambient Air Quality Standard, CPCB Notification,18 th November, 2009
PM_{10} (24 Hrs) : 100, $PM_{2.5}$ (24 Hrs) : 60, SO_2 (24 Hrs.): 80, NO_2 (24 Hrs.) : 80

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TEST REPORT OF AMBIENT AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33A

Sample is drawn by **M/s. Greenvision** — **U.L.R. No. : TC1528826000000226F**

Report No.	: GV/AR/25-26/656	Sample Ref. ID	: AS-046-2026(2)
Name of Customer	: M/s. IABA Housing Pvt. Ltd.	Report Date	: 06.04.2026
Address of Customer	: Andal, Paschim Bardhaman.	Date of Sampling	: 25.03.2026 to 26.03.2026
Sample Description	: Ambient Air	Date of Receiving	: 26.03.2026
Sampling Location	: North West Side of Project Site	Analysis Started On	: 26.03.2026
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Analysis Completed On	: 27.03.2026
Location of Testing	: At Laboratory	Time of Sampling	: 09:35 am to 09:35 am
Sampling Method	: CPCB, Emission Regulation (Part III)		

A. METROLOGICAL INFORMATION

Average Temperature (^{0}C) : 31.5
Average Relative Humidity (%) : 78.0
Barometric Pressure (mm of Hg) : 756.0
Smell or Odour : No Remarkable Smell
Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of PM_{10}	$\mu g/m^3$	75.74	IS : 5182 (Part 23),2006
02.	Concentration of $PM_{2.5}$	$\mu g/m^3$	38.74	EPA CFR – 40 (pt 50) Appendix – 1 : 2003
03.	Concentration of SO_2	$\mu g/m^3$	7.15	IS : 5182 (Part 2),2006
04.	Concentration of NO_2	$\mu g/m^3$	33.44	IS : 5182 (Part 6),2006

Limit : ($\mu g/m^3$) National Ambient Air Quality Standard, CPCB Notification,18 th November, 2009
PM_{10} (24 Hrs) : 100, $PM_{2.5}$ (24 Hrs) : 60, SO_2 (24 Hrs.): 80, NO_2 (24 Hrs.) : 80

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TEST REPORT OF AMBIENT AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33A

Sample is drawn by **M/s. Greenvision** — **U.L.R. No. : TC1528826000000227F**

Report No.	: GV/AR/25-26/657	Sample Ref. ID	: AS-046-2026(3)
Name of Customer	: M/s. IABA Housing Pvt. Ltd.	Report Date	: 06.04.2026
Address of Customer	: Andal, Paschim Bardhaman.	Date of Sampling	: 25.03.2026 to 26.03.2026
Sample Description	: Ambient Air	Date of Receiving	: 26.03.2026
Sampling Location	: South East Side of Project Site	Analysis Started On	: 26.03.2026
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Analysis Completed On	: 27.03.2026
Location of Testing	: At Laboratory	Time of Sampling	: 10:10 am to 10:10 am
Sampling Method	: CPCB, Emission Regulation (Part III)		

A. METROLOGICAL INFORMATION

Average Temperature (^{0}C) : 31.5
Average Relative Humidity (%) : 78.0
Barometric Pressure (mm of Hg) : 756.0
Smell or Odour : No Remarkable Smell
Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of PM_{10}	$\mu g/m^3$	66.38	IS : 5182 (Part 23),2006
02.	Concentration of $PM_{2.5}$	$\mu g/m^3$	34.16	EPA CFR – 40 (pt 50) Appendix – 1 : 2003
03.	Concentration of SO_2	$\mu g/m^3$	7.63	IS : 5182 (Part 2),2006
04.	Concentration of NO_2	$\mu g/m^3$	34.06	IS : 5182 (Part 6),2006

Limit : ($\mu g/m^3$) National Ambient Air Quality Standard, CPCB Notification,18 th November, 2009
PM_{10} (24 Hrs) : 100, $PM_{2.5}$ (24 Hrs) : 60, SO_2 (24 Hrs.): 80, NO_2 (24 Hrs.) : 80

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by	: **M/s. Greenvision**	**U.L.R. No. : TC1528826000000231F**	
Report No.	: GV/NL/25-26/152	Sample Ref. ID	: NLM-011-2026(1)
Name of Customer	: M/s. IABA Housing Pvt. Ltd.	Report Date	: 06.04.2026
Address of Customer	: Andal, Paschim Bardhaman.	Date of Sampling	: 25.03.2026
Sample Description	: Noise Level	Total Time	: 1 Hr.
Sampling Location	: Near Main Gate of Project Site	Sampling Method	: IS : 9989 :1981
Noise Level Limit	: Day Time : 55 dB(A), Night Time : 45 dB(A) { Source : The Noise Pollution (Regulation and Control) Rules, 2000}		
Monitoring Details	: Distance from Object : 3.0 Mtr. Height from the Ground : 1.5 Mtr.		
Category of Area	: Residential Area		

Noise Level dB (A)					
Day Time (10:05 Hrs to 11:05 Hrs.)			Night Time (22:50 Hrs. to 23:50 Hrs.)		
Max.	Min.	Leq.	Max.	Min.	Leq.
65.3	57.6	61.8	52.6	46.9	49.9

Reviewed by
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Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
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TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by	: **M/s. Greenvision**	**U.L.R. No. : TC1528826000000232F**	
Report No.	: GV/NL/25-26/153	Sample Ref. ID	: NLM-011-2026(2)
Name of Customer	: M/s. IABA Housing Pvt. Ltd.	Report Date	: 06.04.2026
Address of Customer	: Andal, Paschim Bardhaman.	Date of Sampling	: 25.03.2026 to 26.03.2026
Sample Description	: Noise Level	Total Time	: 1 Hr.
Sampling Location	: North West Side of Project Site	Sampling Method	: IS : 9989 :1981
Noise Level Limit	: Day Time : 55 dB(A), Night Time : 45 dB(A) { Source : The Noise Pollution (Regulation and Control) Rules, 2000}		
Monitoring Details	: Distance from Object : 3.0 Mtr. Height from the Ground : 1.5 Mtr.		
Category of Area	: Residential Area		

Noise Level dB (A)					
Day Time (11:50 Hrs to 12:50 Hrs.)			Night Time (00:15 Hrs. to 01:15 Hrs.)		
Max.	Min.	Leq.	Max.	Min.	Leq.
66.9	59.6	63.3	50.5	44.8	47.7

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
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TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

U.L.R. No. : TC1528826000000233F

Sample is drawn by	: M/s. Greenvision	Sample Ref. ID	: NLM-011-2026(3)
Report No.	: GV/NL/25-26/154	Report Date	: 06.04.2026
Name of Customer	: M/s. IABA Housing Pvt. Ltd.	Date of Sampling	: 25.03.2026 to 26.03.2026
Address of Customer	: Andal, Paschim Bardhaman.	Total Time	: 1 Hr.
Sample Description	: Noise Level	Sampling Method	: IS : 9989 :1981
Sampling Location	: South East Side of Project Site		
Noise Level Limit	: Day Time : 55 dB(A), Night Time : 45 dB(A) { Source : The Noise Pollution (Regulation and Control) Rules, 2000)		
Monitoring Details	: Distance from Object : 3.0 Mtr. Height from the Ground : 1.5 Mtr.		
Category of Area	: Residential Area		

Noise Level dB (A)					
Day Time (14:45 Hrs to 15:45 Hrs.)			Night Time (01:38 Hrs. to 02:38 Hrs.)		
Max.	Min.	Leq.	Max.	Min.	Leq.
69.5	60.6	64.9	51.4	43.9	47.2

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

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TEST REPORT OF WATER ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by	:	Vikas Ram of M/s. Greenvision	**U.L.R. No.**	:	TC1528826000000228F
Sample identification	:	Nil	**Laboratory Ref. No.**	:	GS-008-2026
Report No.	:	GV/GW/25-26/142	**Report Date**	:	06.04.2026
Issued To	:	M/s. IABA Housing Pvt. Ltd.	**Date of Sampling**	:	25.03.2026
Address	:	Andal, Dist. : Paschim Bardhaman	**Sample Received on**	:	26.03.2026
			Analysis Started on	:	26.03.2026
Sample Condition	:	In Glass Bottle & Plastic Bottle	**Analysis Completed on**	:	01.04.2026
Sample Description	:	Ground Water	**Time of Sampling**	:	05:05 pm
Sampling Method	:	APHA 24th EDITION, 1060	**Testing Location**	:	At Laboratory
Location	:	Borewell Near Project Office			

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed [APHA 24th EDITION]
				Acceptable Limit	Permissible limit in the absence of alternate source	
1.	pH (at 25°C)	-	8.04	6.5 to 8.5	No Relaxation	4500-H^+ B
2.	Colour	Hazen	1.0	5.0	15.0	2120 B
3.	Odour	-	Agreeable	Agreeable	Agreeable	2150 B
4.	Taste	-	Agreeable	Agreeable	Agreeable	2160 A
5.	Turbidity	N.T.U.	0.73	1	5	2130 B
6.	Conductivity	µS/cm	636.0	-	-	2510 B
7.	Total Dissolved Solid (TDS)	mg/L	448.0	500	2000	2540 C
8.	Total Hardness as $CaCO_3$	mg/L	160.0	200	600	2340 C
9.	Chloride as Cl	mg/L	16.51	250	1000	4500Cl^-B
10.	Total Alkalinity as $CaCO_3$	mg/L	144.0	200	600	2320 B
11.	Sulfate as SO_4	mg/L	32.82	200	400	4500 SO_4^{2-} E
12.	Nitrate as NO_3^-	mg/L	4.0	45.0	No Relaxation	4500 NO_3^-
13.	Fluoride as F	mg/L	BDL	1	1.5	4500 FD

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14.	Calcium as Ca	mg/L	36.87	75	200	3500- Ca B
15.	Magnesium as Mg	mg/L	16.52	30	100	3500- Mg B
16.	Iron as Fe	mg/L	0.2	0.3	No Relaxation	3500-Fe B
17.	Residual Free Chlorine	mg/L	Nil	0.2	1.0	4500-Cl B
18.	Aluminium as Al	mg/L	BDL	0.03	0.2	3500-Al B
19.	Total Chromium as Cr	mg/L	BDL	0.05	No Relaxation	3500-Cr C
20.	Copper as Cu	mg/L	BDL	0.05	1.5	3500-Cu B
21.	Lead as Pb	mg/L	BDL	0.01	No Relaxation	3500-Pb B
22.	Cyanide as Cn	mg/L	BDL	0.05	No Relaxation	4500-CN C
23.	Nickel as Ni	mg/L	BDL	0.02	No Relaxation	3500-Ni
24.	Cadmium as Cd	mg/L	BDL	0.003	No Relaxation	3500-Cd
25.	Arsenic as As	mg/L	BDL	0.01	0.05	3500-As B
26.	Zinc as Zn	mg/L	BDL	5.0	15.0	3500-Zn B
27.	Mercury as Hg	mg/L	BDL	0.001	No Relaxation	3500-Hg
28.	Total Coliform / 100ml.	MPN/100ml	Absent	Absent	Absent	9221 B
29.	E. Coli / 100ml	MPN/100ml	Absent	Absent	Absent	9221 F

BDL stands for Below Detectable Limit

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
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For, GREEN VISION

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TEST REPORT OF WATER ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by	:	Vikas Ram of M/s. Greenvision	**U.L.R. No.**	:	**TC1528826000000229F**
Sample identification	:	Nil	**Laboratory Ref. No.**	:	SS-003-2026
Report No.	:	GV/SW/25-26/143	**Report Date**	:	06.04.2026
Issued To	:	M/s. IABA Housing Pvt. Ltd.	**Date of Sampling**	:	25.03.2026
Address	:	Andal, Dist. : Paschim Bardhaman	**Sample Received on**	:	26.03.2026
			Analysis Started on	:	26.03.2026
Sample Condition	:	In Glass Bottle & Plastic Bottle	**Analysis Completed on**	:	01.04.2026
Sample Description	:	Surface Water	**Time of Sampling**	:	05:10 pm
Sampling Method	:	APHA 24th EDITION, 1060	**Testing Location**	:	At Laboratory
Location	:	Pond Water			

Sl. No.	Parameters	Unit	Result	Desirable Limit As Per IS:2296:1982	Method Followed [APHA 24th EDITION]
1.	pH (at 25°C)	-	7.66	5.5 to 9.0	4500-H^+ B
2.	Total Suspended Solid (TSS)	mg/L	16.0	100.0	2540 D
3.	Total Dissolved Solid (TDS)	mg/L	190.0	2100.0	2540 C
4.	Dissolved Oxygen	mg/L	5.54	4.0	IS:3025, P-44, 1993, Reaffirmed 2014
5.	Chemical Oxygen Demand (COD)	mg/L	< 10.0	250.0	5220 B
6.	Biochemical Oxygen Demand (BOD)	mg/L	< 2.0	30.0	IS:3025, P-44, 1993, Reaffirmed 2014
7.	Oil & Grease	mg/L	< 2.0	10.0	5520 A
8.	Residual Free Chlorine	mg/L	Nil	1.0	4500-Cl B
9.	Chloride as Cl	mg/L	13.6	1000.0	4500Cl^-B
10.	Sulfate as SO_4	mg/L	26.17	1000.0	4500 SO_4^{2-} E
11.	Fluoride as F	mg/L	< 0.5	2.0	4500 FD
12.	Iron as Fe	mg/L	0.15	50	3500-Fe B
13.	Arsenic as As	mg/L	< 0.01	0.2	3500-As B

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14.	Lead as Pb	mg/L	< 0.1	0.1	3500-Pb B
15.	Mercury as Hg	mg/L	< 0.01	0.01	3500-Hg
16.	Copper as Cu	mg/L	< 0.1	3.0	3500-Cu B
17.	Dissolved Phosphates as P	mg/L	0.36	5.0	4500-P D
18.	Zinc as Zn	mg/L	< 0.1	5.0	3500-Zn B
19.	Total Chromium as Cr	mg/L	0.11	2.0	3500-Cr C

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Quality Manager

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ANNEXURE 2

SPEED POST

NOC NO171986

WEST BENGAL POLLUTION CONTROL BOARD

Paribesh Bhawan
10A, Block – LA, Sector III, Bidhannagar
Kolkata - 700 106

Memo No. 301 -2N-06/2020(E) Dated 23/06/2022

From :
Member Secretary,
West Bengal Pollution Control Board

To : M/s. IABA Housing Pvt. Ltd.,
5, Gorky Terrace, 2nd Floor, P.O.& P.S.-Shakespeare Sarani,
Kolkata - 700 017.

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

Ref : i) Your letter No. Nil Dated 06.06.2022
ii) Environmental Clearance issued by SEIAA vide EC Identification No.EC22B038WB185425, File No.EN/T-II-1/006/2022 dtd.03.06.2022

WEST BENGAL

Dear Sirs,

In response to the application for Consent to Establish (NOC) for proposed Unit of M/s IABA Housing Pvt. Ltd for the proposed construction of affordable Housing complex comprising of the following - (as per Annexure-A)

at L.R. Plot Nos.5650(P),*5718/7748(P) L.R. Khatian No.3993, J.L. No.36 Mouza - Dakshinkhanda,P.S.-Andal, Dist.- Paschim Bardhaman,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.

*5708(P),5710(P),5711(P),5712(P),5713(P),5714(P),5716(P),5718(P), 5719(P),5720,5721(P),5722(P),5723(P),5724,5728(P),5729(P),5730(P),**

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

**5731,5732,5733,5734,5735,5736,5737,5738,5739,5740(P),5741,5742(P), 5743(P),5744,5745,5746(P),5747(P),5748(P),5749(P),5792(P),5793(P), 5794(P),5820(P),5822(P) &

Engineer
W. B. Pollution Control Board

NOC NO171986

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 :

The total project cost is Rs.25461 Lakhs.

Please refer to Annexure - B.

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

Yours faithfully,

23/06/2022

Member Secretary/Chief Engineer
West Bengal Pollution Control Board (EIM CELL)

Memo No. 301 -2N-06/2020(E) dtd. 23/06/2022 Dated.....

Chief Engineer
W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

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		

23/06/2022

Member Secretary/Chief Engineer
West Bengal Pollution Control Board (EIM CELL)
W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

Dept. of Environment, Govt. of W.B.

Annexure – A to NOC Sl. No. **NO171986**

Proposed affordable Housing Complex at L.R. Plot Nos. 5650(P), 5708(P), 5710(P), 5711(P), 5712(P), 5713(P), 5714(P), 5716(P), 5718(P), 5719(P), 5720, 5721(P), 5722(P), 5723(P), 5724, 5728(P), 5729(P), 5730(P), 5731, 5732, 5733, 5734, 5735, 5736, 5737, 5738, 5739, 5740(P), 5741, 5742(P), 5743(P), 5744, 5745, 5746(P), 5747(P), 5748(P), 5749(P), 5792(P), 5793(P), 5794(P), 5820(P), 5822(P) & 5718/7748(P), L.R. Khatian No. - 3993, J.L. No.- 36, Mouza – Dakshinkhanda, P.S – Andal, Dist – Paschim Bardhaman, West Bengal by M/s. IABA Housing Pvt. Ltd.

Features of the project

Total Land area	45296.112 sqm.
No. of stories	**Residential Towers:** Tower 1A– S + 13 Tower 2A, 2B & 2C– S + 13 Tower 3A, 3B – S + 13 Tower 4A, 4B, 4C, 4D & 4E– S + 13 Tower 5A – S + 13 **Commercial:** Community Facility – G + 1 storied Viewing Gallery between Tower 1A and 2B.
No. of Flats	988 nos.
Total Built-up area	109987.324 sqm.
Ground Coverage	9494.412 sqm (20.96 % of Land Area)
Exclusive Tree Plantation Area	9065.011 sqm (20.01 % of Land Area)
Service Area	528.037 sqm. (1.17% of Land Area)
Paved Area	15313.46 sqm. (33.81% of Land Area)
Open Parking Area	10895.192 sqm. (24.05% of Land Area)
Total no. of trees proposed	650 nos.

23/06/2022

Chief Engineer (EIM Cell)/Member Secretary
West Bengal Pollution Control Board

Chief Engineer
W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

Annexure – B to NOC Sl. No. **NO171986**

Special Conditions issued for the proposed affordable Housing Complex at L.R. Plot Nos. 5650(P), 5708(P), 5710(P), 5711(P), 5712(P), 5713(P), 5714(P), 5716(P), 5718(P), 5719(P), 5720, 5721(P), 5722(P), 5723(P), 5724, 5728(P), 5729(P), 5730(P), 5731, 5732, 5733, 5734, 5735, 5736, 5737, 5738, 5739, 5740(P), 5741, 5742(P), 5743(P), 5744, 5745, 5746(P), 5747(P), 5748(P), 5749(P), 5792(P), 5793(P), 5794(P), 5820(P), 5822(P) & 5718/7748(P), L.R. Khatian No. - 3993, J.L. No.- 36, Mouza – Dakshinkhanda, P.S – Andal, Dist – Paschim Bardhaman, West Bengal by M/s. IABA Housing Pvt. Ltd.

A. Emission:-

1. DG Sets - 4x500 KVA
   i. Stacks of adequate height to be provided with acoustic enclosures and residential silencer.
   ii. Stacks to have sampling port, platform and ladder as per the Emission Regulation Part – III of CPCB.
   iii. Emission standards, Fuel specification and Stack height should comply with the prescribed limits under the notification of Ministry of Environment & Forest, Govt. of India, G.S.R. 489(E) [09.07.2002] and subsequent amendments.

B. Effluent:- Domestic – waste water shall be treated in adequately designed Sewage Treatment Plant (STP). Treated waste water shall be recycled. Excess water shall be discharged to drain. STP should be monitored on a regular basis for compliance with the norms and records should be maintained properly.

C. Solid Waste :-

Municipal solid waste- to be collected and disposed off regularly as per the Solid Waste Management Rules, 2016.The project proponent shall install on-site compost plant for treatment & disposal of bio-degradable fraction of MSW.

Construction and Demolition Waste - The proponent should abide by the Construction and Demolition Waste Management Rules, 2016. Guidelines on Environmental Management of Construction & Demolition Waste published by CPCB in March, 2017 should be followed.

Hazardous Wastes - The proponent should abide by the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

D. General :-

1. Appropriate arrangement is to be done for rainwater harvesting within the site. The proponent must practice rainwater harvesting on regular basis.
2. Ground water should not be abstracted without the permission of the Competent Authority as per the West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005.
3. Provision of screen wall should be made surrounding the batching plant, if installed for control of fugitive emission from such operation.
4. 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, S.O. 2804(E) dated 03.11.2009 and S.O.254(E) dated 25.01.2016 of the Ministry of Environment & Forests, Govt. of India.
5. 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-

23/06/2022
Chief Engineer
W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

Special Conditions issued for the proposed affordable Housing Complex at L.R. Plot Nos. 5650(P), 5708(P), 5710(P), 5711(P), 5712(P), 5713(P), 5714(P), 5716(P), 5718(P), 5719(P), 5720, 5721(P), 5722(P), 5723(P), 5724, 5728(P), 5729(P), 5730(P), 5731, 5732, 5733, 5734, 5735, 5736, 5737, 5738, 5739, 5740(P), 5741, 5742(P), 5743(P), 5744, 5745, 5746(P), 5747(P), 5748(P), 5749(P), 5792(P), 5793(P), 5794(P), 5820(P), 5822(P) & 5718/7748(P), L.R. Khatian No. - 3993, J.L. No.- 36, Mouza – Dakshinkhanda, P.S – Andal, Dist – Paschim Bardhaman, West Bengal by M/s. IABA Housing Pvt. Ltd.

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.

6. Proper steps are to be taken so that the flora and fauna are not affected during the construction phase.
7. Adequate firefighting storage should be provided as per Rules.
8. Adequate parking space should be provided within the project site as per Rules.
9. 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.
10. Use of energy efficient construction materials should be ensured. Water efficient devices / fixtures should be installed. Energy efficient systems should be installed.
11. 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.
12. The proponent shall undertake awareness programmes for the residents to promote water and energy conservation and to ensure environmental protection.
13. No expansion of the project should be undertaken without prior permission of the State Board.
14. The unit should not start operation without obtaining 'Consent to Operate' from this Board.
15. The proponent should maintain a display board at the site, providing detailed information on the salient features of the proposed project.
16. 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 I)**.
17. 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 EC Identification No. EC22B038WB185425, File No. EN/T-II-1/006/2022 dated 03/06/2022.
18. Existing water bodies (if any) should not be lined and their embankments should not be cemented. The water bodies are to be kept in natural conditions without disturbing the ecological habitat.
19. Statutory licenses/permission, as applicable, should be obtained from the Competent Authority.
20. This NOC is valid upto **30.06.2029** for construction of the project.

23/08/2022

Chief Engineer (EIM Cell)/Member Secretary
West Bengal Pollution Control Board

Chief Engineer
W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

ANNEXURE 3

ENVIRONMENTAL CLEARANCE

PARIVESH

(Pro-Active and Responsive Facilitation by Interactive, and Virtuous Environmental Single-Window Hub)

Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment Authority(SEIAA), West Bengal)

To,

The CEO
IABA HOUSING PVT. LTD.
5 Gorky Terrace, 2nd Floor P.O. and P.S. - Shakespeare Sarani, Kolkata - 700017

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/WB/MIS/248976/2021 dated 02 Feb 2022. The particulars of the environmental clearance granted to the project are as below.

1.	**EC Identification No.**	**EC22B038WB185425**
2.	**File No.**	EN/T-II-1/006/2022
3.	**Project Type**	New
4.	**Category**	B2
5.	**Project/Activity including Schedule No.**	8(a) Building and Construction projects
6.	**Name of Project**	Affordable Housing Complex
7.	**Name of Company/Organization**	IABA HOUSING PVT. LTD.
8.	**Location of Project**	West Bengal
9.	**TOR Date**	N/A

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 03/06/2022

(e-signed)
Kaliyamurthi Balamurugan
Member Secretary
SEIAA - (West Bengal)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH.Please quote identification number in all future correspondence.

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Proposed conditions for environmental clearance for the proposed affordable Housing Complex at L.R. Plot No.- 5650 (P), 5708(P), 5710 (P), 5711 (P), 5712 (P), 5713 (P), 5714 (P), 5716 (P), 5718 (P), 5719 (P), 5720, 5721 (P), 5722(P), 5723 (P), 5724, 5728 (P), 5729 (P), 5730 (P), 5731, 5732, 5733, 5734, 5735, 5736, 5737, 5738, 5739, 5740 (P), 5741, 5742 (P), 5743 (P), 5744, 5745, 5746 (P), 5747 (P), 5748 (P), 5749 (P)5792 (P), 5793 (P), 5794 (P), 5820 (P), 5822 (P) & 5718/7748 (P), L.R. Khatian No. -3993, J.L. No.- 36, Mouza – Dakshinkhanda, P.S – Andal, Dist – Paschim Bardhaman, West Bengal by M/s. IABA Housing Pvt. Ltd.

Background of the project

The proponent made online application vide proposal no. SIA/WB/MIS/248976/2021 dated 02.02.2022 seeking environment clearance under the provisions of the EIA Notification, 2006 for the proposed affordable Housing Complex at L.R. Plot No.- 5650 (P), 5708(P), 5710 (P), 5711 (P), 5712 (P), 5713 (P), 5714 (P), 5716 (P), 5718 (P), 5719 (P), 5720, 5721 (P), 5722(P), 5723 (P), 5724, 5728 (P), 5729 (P), 5730 (P), 5731, 5732, 5733, 5734, 5735, 5736, 5737, 5738, 5739, 5740 (P), 5741, 5742 (P), 5743 (P), 5744, 5745, 5746 (P), 5747 (P), 5748 (P), 5749 (P)5792 (P), 5793 (P), 5794 (P), 5820 (P), 5822 (P) & 5718/7748 (P), L.R. Khatian No. -3993, J.L. No.- 36, Mouza – Dakshinkhanda, P.S – Andal, Dist – Paschim Bardhaman, West Bengal.

The proposal has been examined and processed in accordance with the EIA Notification, 2006. The proposal is for construction of affordable Housing Complex comprising of the following:-

Residential Towers:
Tower 1A– S + 13
Tower 2A, 2B& 2C– S + 13
Tower 3A, 3B – S + 13
Tower 4A, 4B, 4C, 4D & 4E– S + 13
Tower 5 A – S + 13

Commercial:
Community Facility – G + 1 storied
Viewing Gallery between Tower 1A and 2B.

Total Built up area of the project is 109987.324 sqm. on a land area of 45296.112 sqm. Total No. of Flats 988 nos.

The project proponent obtained sanctioned building plan vide Building Permit No. 2014300120210004 dated 02.11.2021 from WBIDCL.

Salient features of the proposed project as per PARIVESH Portal are as follows –

Total Land area	45296.112 sqm.
No. of stories	**Residential Towers:** Tower 1A– S + 13 Tower 2A, 2B& 2C– S + 13 Tower 3A, 3B – S + 13 Tower 4A, 4B, 4C, 4D & 4E– S + 13 Tower 5 A – S + 13 **Commercial:** Community Facility – G + 1 storied Viewing Gallery between Tower 1A and 2B.
No. of Flats	988 nos.
Latitude & Longitude of site	23°36'02.56"N & 87°13'27.60"E
Total Built-up area	109987.324 sqm.
Ground Coverage	9494.412sqm (20.96 % of Land Area)
Exclusive Tree Plantation Area	9065.011sqm (20.01 % of Land Area)
Service Area	528.037 sqm. (1.17% of Land Area)
Paved Area	15313.46 sqm. (33.81% of Land Area)
Open Parking Area	10895.192 sqm. (24.05% of Land Area)

Source of Water	Bengal Aerotropolis Projects Limited (BAPL)
Quantum of Water required	735 KLD
Quantity of Wastewater Generation	538 KLD
Treated Wastewater Recycled	211 KLD
Quantity of Wastewater Discharge	327 KLD
Quantum of Fresh Water required	524 KLD
Quantity of Solid Waste Generation	2600 kg/day
Constructional Phase Water Demand	73 KLD (62 KLD for workers and 11 KLD for construction work)
Population During Construction	888 persons
Total Population During Operation	6136 (Fixed – 5468, Floating – 613 and Service - 55) persons
Electricity (Demand Load)	2750 KVA by IPCL
Solar power generation	25 KWp
D.G. Sets for Back Up power	4 nos. 500 KVA
Parking requirement	Cars – 783
Parking Provided	Cars – 988 (Stilt parking – 100 and Open parking – 888)
Total no. of trees proposed	650 nos.
Total project cost (Rs.)	Rs. 25461 lakhs

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

I. Statutory compliance:

i. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.

ii. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc. as per National Building Code including protection measures from lightening etc.

iii. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.

iv. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.

v. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.

vi. The project proponent shall obtain the necessary permission for drawl of ground water /surface water required for the project from the competent authority.

vii. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.

viii. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.

ix. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.

x. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

xi. The project proponent should strictly comply with the guidelines for High Rise Buildings, issued by MoEF, GoI vide No. 21-270/2008-IA.III dated 07.02.2012.

xii. The project proponent shall comply with the EMP as proposed in terms of Office Memorandum issued by the MoEF & CC vide F. No. 22-65/2017-IA.III dated 30.09.2020.

II. Air quality monitoring and preservation

i. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.

ii. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.

iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM25) covering upwind and downwind directions during the construction period.

iv. Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel is mandatory. The location of the DG sets may be decided in consultation with State Pollution Control Board.

v. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.

vi. Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.

vii. Wet jet shall be provided for grinding and stone cutting.

viii. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.

ix. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.

x. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.

xi. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.

xii. For indoor air quality the ventilation provisions as per National Building Code of India.

III. Water quality monitoring and preservation

i. The natural drainage system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.

ii. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.

iii. Total fresh water use shall not exceed the proposed requirement as provided in the project details.

iv. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office of Ministry of Environment, Forest and Climate Change (MoEF&CC) along with State Level Environment Impact Assessment Authority (SEIAA) and West Bengal Pollution Control Board (WBPCB) along with six monthly Monitoring reports.

v. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.

vi. At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.

vii. Installation of dual pipe plumbing for supply of recycled water and other for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. and for supplying fresh water for drinking, cooking and bathing etc. shall to be done.

viii. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc.) for water conservation shall be incorporated in the building plan.

ix. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.

x. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.

xi. The local bye-law provisions on rain water harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.

xii. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.

xiii. All recharge should be limited to shallow aquifer.

xiv. No ground water shall be used during construction phase of the project.

xv. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the State Water Investigation Directorate (SWID) in the matter. Formal approval shall be taken from the SWID for any ground water abstraction or dewatering.

xvi. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening.

xvii. No sewage or untreated effluent water would be discharged through storm water drains.

xviii. Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Regional Office of MoEF&CC along with SEIAA and WBPCB before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by MoEF&CC. Natural treatment systems shall be promoted.

xix. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.

xx. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

IV. Noise monitoring and prevention

i. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.

ii. Noise level survey shall be carried out as per the prescribed guidelines and report in this regard shall be submitted to Regional Office of the MoEF&CC along with SEIAA and WBPCB as a part of six-monthly compliance report.

iii. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

V. Energy Conservation measures

i. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.

ii. Outdoor and common area lighting shall be LED.

iii. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.

iv. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.

v. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.

vi. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

VI. Waste Management

i. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.

ii. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.

iii. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.

iv. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.

v. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.

vi. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.

vii. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.

viii. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.

ix. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.

x. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

VII. Water Body Conservation:-

i. Existing 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.

VIII. Green Cover

i. The unit should strictly abide by The West Bengal Trees (Protection and Conservation in Non-Forest Areas) Act, 2006 and subsequent rules. The proponent should undertake plantation of trees over at least 20% of the total area.

ii. No tree can be felled/transplanted unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).

iii. The proponent should plant at least **650** nos. trees. 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. The project proponent

should follow plantation plan approved by DFO, Durgapur Division vide Memo no. 5075/2-50 dated 01.02.2022.

iv. Where the trees need to be cut with prior permission from the concerned Local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.

v. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

IX. Transport

i. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
   a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
   b. Traffic calming measures.
   c. Proper design of entry and exit points.
   d. Parking norms as per local regulation.

ii. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and to be operated only during non-peak hours.

iii. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

X. Human health issues

i. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.

ii. For indoor air quality the ventilation provisions as per National Building Code of India.

iii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.

iv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

v. Occupational health surveillance of the workers shall be done on a regular basis.

vi. A First Aid Room shall be provided in the project both during construction and operations of the project.

XI. Environment Management Plan (EMP)

i. The project proponent should submit the proposed EMP on a six monthly basis. The Office Memorandum issued by the MoEF & CC vide F. No. 22-65/2017-IA.III dated 30.09.2020 should be strictly followed.

ii. Need based activities for local people is part of the EMP. Details of such activities submitted by the Project Proponent is given in Annexure-1.

iii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms /conditions. The company shall have defined system of reporting infringements /deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the Regional Office of MoEF&CC along with SEIAA and WBPCB as a part of six-monthly report.

iv. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of Senior Executive, who will directly report to the head of the organization.

v. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose.

vi. Year wise progress of implementation of action plan shall be reported to the Regional Office of MoEF&CC along with SEIAA and WBPCB along with the Six Monthly Compliance Report.

XII. Additional condition

i) The need based EMP proposed by the project proponent should be outside the project area.

XIII. Miscellaneous

i. The environmental clearance accorded shall be valid for a period of 10 years for the proposed project.

ii. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.

iii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.

iv. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.

v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal with a copy to SEIAA and WBPCB.

vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.

vii. The project proponent shall inform the Regional Office of the MoEF&CC along with SEIAA and WBPCB, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.

viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.

ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during their presentation to the State Expert Appraisal Committee (SEAC).

x. No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA.

xi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

xii. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

xiii. The SEIAA reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

xiv. The Regional Office of the MoEF&CC/SEIAA/WBPCB shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office of MoEF&CC / SEIAA/WBPCB by furnishing the requisite data / information/monitoring reports.

xv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

xvi. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

xvii. The contact details of the proponent and the name of the consultant are given below –

Name of the Contact person with	Mr. Sandeep Sharma, CEO
Address	5, Gorky Terrace, 2nd Floor, P.O & P.S – Shakespeare Sarani, Kolkata – 700 017, West Bengal.
Email	iabahousing21@gmail.com sandeep.sharma@iabahousing.com
Mobile Number Fax No.	9999686266
Name of the Environmental Consultant	M/s. ULTRA-TECH

Annexure-1

NEED BASED ACTIVITIES FOR LOCAL PEOPLE

SL NO.	Proposed need based activities	Investment (in lakhs)							Total (In lakhs)
		Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6	Yr 7	
1	Providing funds for drinking water supply, drains, MSW management to the surrounding habitat.	3	5	7	9	9	10	10	53
2	Tree plantation (outside the project area) in consultation with different Govt. agencies (confirmed during compliance report)	4	6	6	8	10	11	12	57
3	Donations for construction and maintenance of toilets with running water facility, infrastructural support, hand washing stations, MSW management, providing educational tools like computers, internet connection, training on computer literacy, etc. to the nearby schools.	5	6	8	9	10	11	12	61
4	Providing funds to the nearby girls' school for sanitary napkin vending machines and proper disposal mechanism for the same.	5	6	6	8	10	12	12	61
5	Initiating programme with Golden City Industrial Township Authority (GCITA) for vector control.	2	4	6	7	9	9	10	47
6	Battery operated (small) hydraulic tipper for MSW management.	3	6	7	8	8	10	10	52
7	Distribution of waste garbage bins for segregated waste collection.	3	5	7	7	9	10	10	51
	TOTAL	25	38	49	56	65	73	76	382

Above mentioned activities will be executed in collaboration with ULB/Govt. Agency/WBPCB/Registered Society and/or Trust.

ANNEXURE 4

INDIA POWER

Date:- 29.02.2020

To,
Mr. Sandeep Sharma,
Chief Executive Officer,
IABA Housing Private Limited,
Durgapur.

Sub: - Approval towards Electrical Load requirement at your proposed Housing complex in Sujalaam Sky City, BAPL

Dear Sir,

We refer to your letter dated 19.02.2020 regarding the above subject and we are pleased to inform you that we can provide 2750 KVA electrical load requirement in your proposed Housing complex at BAPL within the specified time limit.

This will include developing the network elements as per the Regulatory Codal procedure and appropriate charges will be borne by the consumer and power supply provider commensurating with the Regulatory procedure.

Thanking you,

Yours' Faithfully,

Manager (T&D),
Seebpore Power Station

India Power Corporation Limited
CIN – L40105WB1919PLC003263
Registered Office : Plot No. X1 - 2 & 3, Block - EP, Sector - V, Salt Lake City, Kolkata - 700091
Ph : +91 33 6609 4300 / 08 / 09 / 10 , Fax : +91 33 2357 2452
Central Office : Sanctoria, P.O. - Dishergarh, District - Burdwan, Pin - 713333 (W.B.)
Ph : (0341) 6600452 / 454 / 455 / 456 / 457, Fax : (0341) 6600464
E-mail : pr@indiapower.com, Web : www.indiapower.com

INDIA POWER

11th Dec 2019

To,
Mr. Sandeep Sharma
CEO
IABA Housing Private Limited
2nd, 5 Gorkey Terrace
Gorkey Terrace, Kolkata
West Bengal – 700017

Sub: Provide 1 MVA Power regarding

Sir,

We hereby confirm the source availability of 1 MVA power as desired by you for your upcoming EWS housing project complex comprising of approx. 800 dwelling units at BAPL, Andal premises.

This letter may be treated as reassurance to avail the quantum of power only and is not a substitute for offer letter & other communication in line with the Codal Procedure laid by Hon'ble WBERC.

Thanking you!

For India Power Corporation Limited
Authorised Signatory

Copy to:
Mr. Keshav B Thapa – BAPL
Mr. Raja Dasgupta – BAPL
Mr. Chiranjeev - BAPL
Mr. Arindam Kundu – LRS Lead
Mr. Sanjoy Bhattacharjee – SPS Head

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E-mail : pr@indiapower.com, Web : www.indiapower.com

ANNEXURE 5

EMERGENCY PREPAREDNESS AND RESPONSE PLAN

For

AFFORDABLE HOUSING COMPLEX

At

L.R. Plot No.- 5650 (P), 5708 (P), 5710 (P), 5711 (P), 5712 (P), 5713 (P), 5714 (P), 5716 (P), 5718 (P), 5719 (P), 5720, 5721 (P), 5722 (P), 5723 (P), 5724, 5728 (P), 5729 (P), 5730 (P), 5731, 5732, 5733, 5734, 5735, 5736, 5737, 5738, 5739, 5740 (P), 5741, 5742 (P), 5743 (P), 5744, 5745, 5746 (P), 5747 (P), 5748 (P), 5749 (P)5792 (P), 5793 (P), 5794 (P), 5820 (P), 5822 (P) & 5718/7748 (P), L.R. Khatian No. -3993, J.L.No.- 36, Mouza – Dakshinkhanda, P.S – Andal, Dist –Paschim Bardhaman, Under Bengal Aerotropolis Projects Limited (BAPL), West Bengal.

For

IABA Housing Pvt. Ltd.
5 Gorky Terrace, 2nd floor, P.O & P.S – Shakespeare Sarani,
Kolkata 700017, West Bengal.

Preface

An affordable Housing Complex will be developed and constructed by IABA Housing Pvt. Ltd. at L.R. Plot No.- 5650 (P), 5708 (P), 5710 (P), 5711 (P), 5712 (P), 5713 (P), 5714 (P), 5716 (P), 5718 (P), 5719 (P), 5720, 5721 (P), 5722 (P), 5723 (P), 5724, 5728 (P), 5729 (P), 5730 (P), 5731, 5732, 5733, 5734, 5735, 5736, 5737, 5738, 5739, 5740 (P), 5741, 5742 (P), 5743 (P), 5744, 5745, 5746 (P), 5747 (P), 5748 (P), 5749 (P)5792 (P), 5793 (P), 5794 (P), 5820 (P), 5822 (P) & 5718/7748 (P), L.R. Khatian No. -3993, J.L.No.- 36, Mouza – Dakshinkhanda, P.S – Andal, Dist –Paschim Bardhaman, Under Bengal Aerotropolis Projects Limited (BAPL), West Bengal. This Emergency Plan has been discussed here for this affordable Housing Complex.

Successful emergency management of the Housing complex depends on prompt and correct decisions of the residents and their immediate actions during the first minutes of the incident. In an emergency situation, the residents and visitors are on their own until first responders arrive. First responders may include Police, Fire Brigade, Medical Team, Neighbors, Security Personnel and designated Emergency Officials, etc. In most cases Police and Fire Brigade are expected to arrive first.

The complex must have a safety policy, emergency response procedure and elaborate evacuation plan specific to the people of the complex, design and layout of the buildings, roads, staircases, roofs, open landscape and current people available for response during an emergency.

An emergency may occur from natural disasters like earthquake, drought, flood, cyclone, high winds, cloud burst, heat waves, landslide, forest fire, hail storm, locust, volcanic eruption, etc. or human failures like structural fault, waste water treatment, power disruption and disrupted lift operation, water crisis or accidents like fire, tilting cranes or even act of terrorism like bomb threat, chemical poisoning etc.

There is a responsibility & authority matrix and specific do's and don'ts during implementation of the emergency. A crisis response manager is designated to oversee the preparedness to cover the entire complex and address day-to-day concerns and problems of all the residents and visitors.

Most of the residents and visitors are ignorant about do's and don'ts during emergency / crisis situation. While it is easy to learn from others' mistakes, it is of paramount importance to have a plan for saving and restoring irreplaceable

valuables and important documents, so that life should never be risked to re-enter a dangerous home to salvage such belongings.

Important phone numbers are permanently displayed at prominent places and evacuation drill is regularly conducted, so that residents and visitors are not confronted with surprises or helplessness during the crisis.

Introduction

Purpose

The Emergency Preparedness and Response Plan outline the emergency management system in the event of a major crisis / disaster. The Facility Management Group (FMG) activates the plan whenever such an emergency reaches proportions beyond the capacity of routine procedures. Interaction with local police, fire brigade, healthcare departments and other nodal agencies is mandatory by Law.

Objectives

Primary objectives:

- Preservation of life
- Protection of property
- Continuity of operations

Secondary objectives:

- Prescribing Responsibility & Authority Matrix including functions, operations, Emergency Management Organization, and management of critical resources.
- Coordinating emergency operations with all the concerned agencies.

Accepted facts

- Disaster results into catastrophic damages to property and personnel casualties.
- The disaster will occur any moment without any warning.
- Emergency response may not be always as prompt as expected.
- Emergency response actions may continue for a prolonged period.
- Post emergency status may be extremely complicated.

PREPAREDNES AND EMERGENCY PLAN

Preparedness

Preparedness is the term which indicates the level of precautions we can take much before any hazard occurs. It is simultaneously expected that a disaster might happen anytime, and we have to act according to our plan, using all our facilities built much earlier. The final outcome of a preparedness plan is the emergency plan.

Major recommendations:

1. A full proof emergency plan for this complex will keep the residents and visitors secured and possibilities of loss are lesser.
2. An Emergency Operation Centre (EOC) has to be established and the standard procedures of Incident Response System (IRS) to be implemented, as per the guidelines of National Disaster Management Authority (NDMA)
3. An identified person should be entrusted the responsibility of Incident Commander (IC). Another person will assist him as a Deputy Incident Commander (DIC), who will take over the charges, in absence of the prior.
4. Syn-disaster emergency procedures to be formulated in a realistic manner.

Pre Construction Measures

The pre-construction measures encompass:

- Design & Engineering features
- Land Treatment & testing
- Safety Policy & Protocol during construction
- Maintenance Protocol of construction machinery.
- Mandatory PPE (Personal Protection Equipment)
- Safety & evacuation drill
- Safety Status / Accident Reporting protocol
- Analysis of near-miss & reported accident cases.

1. Identification of potential accidents and emergency situation

The design of the Emergency Operation Centre (EOC) depends to a great extent on the types of emergency incidents. The possible incidents are described as follows.

- **Naturally occurring hazards.** Hazards that can occur without the influence of people and have potential direct or indirect impact on people, property, the environment, such as

  Geological hazards such as earthquakes, tsunami, volcanoes, landslides, cloud burst, storm, heat waves, lightning etc

  Meteorological hazards such as floods, flash floods, droughts, fires, snow, windstorms, tropical cyclone, hurricanes, tornadoes extreme temperatures, and lightning strikes.

- **Accidental events.** Accidental events such as Hazardous material (explosive, flammable liquid, flammable gas, flammable solid, oxidizer, poison, radiological, corrosive) spill or release. Explosion/fire, transportation accident, Building/structure collapse, Energy/power/utility failure etc.

- **Intentional events.** Intentional events are events such as Terrorism, Sabotage, Civil disturbance, Strike or labor dispute, Criminal activity and so on.

The following measures will be in place during preconstruction and construction phase depending on the type of incidents:

Earthquake hazard has been considered as one of the potential threat for this region. The structural design has been scrutinized and certified by empanelled structural engineer as per relevant IS codes, NBC-2005 and other relevant International Codes or standards.

Measures taken:

Land preparation – It is a flat land and no land filling is required for this project. Also, major quantity of the top soil has been planned to retain for further use in landscaping and gardening.

Foundation – The foundation and structural design has been scrutinized and certified by empanelled structural engineer as per relevant IS codes, NBC-2005 and other relevant International Codes or standards. According to the soil test reports, the maximum possible measures have been taken against earthquake and this has been clearly incorporated in the sanctioned plan.

Construction – The construction work will be full proof on the basis of sanctioned plan.

The following considerations have been formulated –

- Use of fly ash based cement product in RCC and masonry works
- RCC frame structure with use of mixed design
- Use of compressed particle boards and solid blocks for partitions and frames
- Timber free construction
- Use of pre-fabricated shuttering and staging materials
- All scaffoldings of M.S. Pipes

High winds in the form of ***cyclone***, may cause great impact on this Affordable housing complex. The possibility is foreseen and the measures have been taken during the design of this complex.

The architectural view and design have been made in a proper orientation, to minimize the possible impact of cyclonic condition.

Cloud burst or over-rain may happen in the changing climatic pattern and expected outcome, like water-logging, flooding, contamination and other disruption are

foreseen within this complex. Thus, a master drainage plan was prepared and implemented to combat the situation to minimize the possibility of congestion even in an extreme situation. The excess storm water will go to the Corporation drain just in front of the proposed project and finally flow to the canal. The diameter of the pipe has been planned to carry both normal treated sewage and occasional storm water.

Lightning arrester will be installed on the top of the building with proper specification and as per the requirement.

Flash flood may not happen as this is a flat land. The possibility of excess surface run off has also been incorporated in the master drainage plan.

Heat waves can be harmful for the residents (especially the aged and child) and create the situation of medical emergency. Thus, in the planning phase the climate friendly construction work and plantation & landscaping were followed for risk reduction. Also, treatment of roof has been proposed to minimize the heat transfer into the building. Use of non-reflective glasses is a must for this project.

Beside these, huge plantation and landscaping are proposed to minimize the effect of local heat pool.

Fire threat can happen anytime and anywhere within this Affordable housing complex. It may occur within the individual residential and commercial unit or in the housing complex from different sources like electrical, cooking etc. As a measure, lot of fire extinguishers have made available in the wide corridors and a number of fire alarms installed in the selective zones with automatic sprinkler system. The response system has been discussed in the preparedness within this report. Proposed well designed composite fire fighting system as per NBC provisionally approved by WBFES.

Bomb threat can be a major hazard and should be cautiously handled with. The preparedness for this kind of hazards will help to gain confidence and tackle the situation firmly.

Wastewater treatment is necessary and a sufficient capacity STP has been installed and the treated wastewater is being reused at maximum extent and rest part poured into the municipality sewerage just in front of the proposed project. Also, the storage tanks are located and constructed such a manner that the possibility of contamination is not happened.

(i) **Solid wastes** will be segregated at source for biodegradable, non-biodegradable recyclables and non-biodegradable inert material during construction and operational phase. Biodegradable part will be treated in-house by installing mechanical composter, and rest will be disposed off by Siliguri Municipal Corporation as per the MSW (M&H) Rules 2016.

(ii) **ELECTRICITY, BACKUP POWER AND ENERGY CONSERVATION MEASURES**

Power cut and disrupted lift operation are the major concern in this type of housing complex. The alternate power supply, back up facility is there to ensure the continuity of the service and will ensure the ease of living in this complex. Dedicated power back up service for water pumps, fire fighting, lifts, and illumination of lobbies and campus lighting has been planned.

- Electricity is being supplied by WBSEDCL.The demand load is around 2928 KVA (2343 KW).
- Proper electrical earthing is in high priority
- DG sets – 1 X 380 KVA & 2X 1010 KVA each for backup power.
- Fuel required for DG sets is around 384 litres/hr with minimum 8 hours back up.
- The emission from DG sets is being discharged through stack height 3.9 m stack for 380 KVA DG set & 6.4 m stack for 1010 KVA DG set from the roof of the building/roof of DG sets.
- Inbuilt acoustic enclosure to minimize noise generation for DG sets
- Maximum utilization of natural light
- LED lighting system will be used
- 50% of street light and common area lighting has been provided through solar lighting system

Traffic hazards within this housing complex is planned to minimize with the provision of separate entry and exit way and wide driveway.

Structural fault will be totally monitored and avoided during the entire construction work and the following strategies were taken into consideration ----

Despite these, the housing complex should be monitored for any structural faults in a regular interval and to be repaired/retrofit as soon as noticed.

A housing complex emergency response must ensure that necessary repairs are made and follow the maximum possible precautions as follows-

Step 1

A list of all the items necessary to manage the housing complex effectively must be prepared. A blank space under each item subhead, which should describe the policies for the residents, their restrictions, such as no smoking or pets, maintenance responsibilities, etc. should be available and kept handy.

Step 2

Procedures for all the items in the list have to be prepared. It should be kept in mind to specify what types of residents to be served, and their necessity/choices under the applicable subhead. Also, the data regarding the person will perform maintenance and repairs to the housing complex, to be kept available in hand. There should be transparent policies on smoking and pets and if pets are allowed, and how many with what kind. The list should be kept handy for reference.

Step 3

Periodic walk-throughs of the outside areas of the housing complex to be inspected and signs of damage or needed cosmetic work to be identified. Repairs and touch-up work as needed will keep the residents happy and avoid complaints.

Step 4

Phone calls and written responses to the residents are essential to resolve any matter in a very delicate manner. Delaying a response to a resident may lead to legal problems if the matter is serious, such as harassment from another resident.

Step 5

Emergency repairs to be made immediately and otherwise failure to correct problems that make the unit uninhabitable for the resident again lead to legal action from the resident or agitation.

Step 6

Prepare a preparedness plan to take proper actions to protect the housing complex if there is a disaster, such as a fire or flood. Established evacuation procedures have to be notified to all the residents. Notices in the complex should be seen and the regular checking of safety equipments (i.e., smoke alarms) are essential to ensure the items function properly.

Step 7

Tackle pest infestations immediately, before the problem spreads. Bed bugs or termites are difficult to eradicate and can get into all the units in the complex if measures are not taken as soon as it is noticed. A professional service can be able to deal with a pest infestation.

2. **Availability of appropriate emergency equipment and regularly testing their response capability through process drills**

Emergency response supplies and equipment are stored in three areas to assure critical response capability. The IC will have the overall responsibility for maintaining readiness of the emergency operations facilities and supplies. The use of emergency supplies for non-emergencies should be avoided, but if used, the supplies are replaced or replenished as quickly as possible

- Communications (radios, landline and wireless phones,)
- First Aid / Automated External Defibrillator (AED)
- Spill containment and cleanup
- Personal protective equipment (PPE)

Personal protective equipment (PPE) is essential to evacuate during an emergency. Personal protective equipment must be based on the potential hazards in the residential place. Functionality of this equipment will be tested at frequent interval to make them in order. Personal protective equipment may include items such as

- Safety glasses, goggles or face shields for eye protection
- Hard hats and safety shoes for head and foot protection
- Proper respirators
- Chemical suits, gloves, hoods and boots for body protection from chemicals
- Special body protection for abnormal environmental conditions, such as extreme temperatures

In addition to above, the following supplies are recommended for personal kit:

- Drinking water (1 gallon a day; 3 days' supply recommended)
- Food (keep airtight in pest-proof packaging)
- Flashlight and extra batteries
- Utility knife
- First aid kit with special personal needs such as prescription medication and glasses
- Sturdy, comfortable shoes and clean socks
- Space blanket or a standard blanket
- Light sticks
- Heavy duty work gloves
- Cash (some in quarters)
- Sanitation needs (such as tissue paper, small bottle of bleach, plastic bags, plastic bucket)
- Duct tape and barrier tape
- Large sheets of paper, markers, pens and pencils
- Whistle
- Campus and area maps

Vehicles maintained by the EOC will be available for emergency response.

Staging Ground, which is the designated area where the supporting utilities and facilities will be stationed and supplied according to the necessity. This will only become operated during the emergency situation.

3. Identification of Persons to take Charge during Emergency

Incident commander and other key personnel such as supervisors/safety officer are responsible for communicating with all the residents and visitors in the housing complex. The IC will also be responsible for training the housing employees and keeping training records. It is the responsibility of the residents to become familiar with the IRS, to know evacuation routes and assembly areas, and to attend training(s) given by the department on emergency preparedness and safety. As a supplement to the training, the IC posts information in the building for residents and guests. Other training requirement for building occupants includes first aid and fire extinguisher training. A resident interested in any safety training should see his/her IC.

4. Details of actions to be taken by the personnel during an emergency

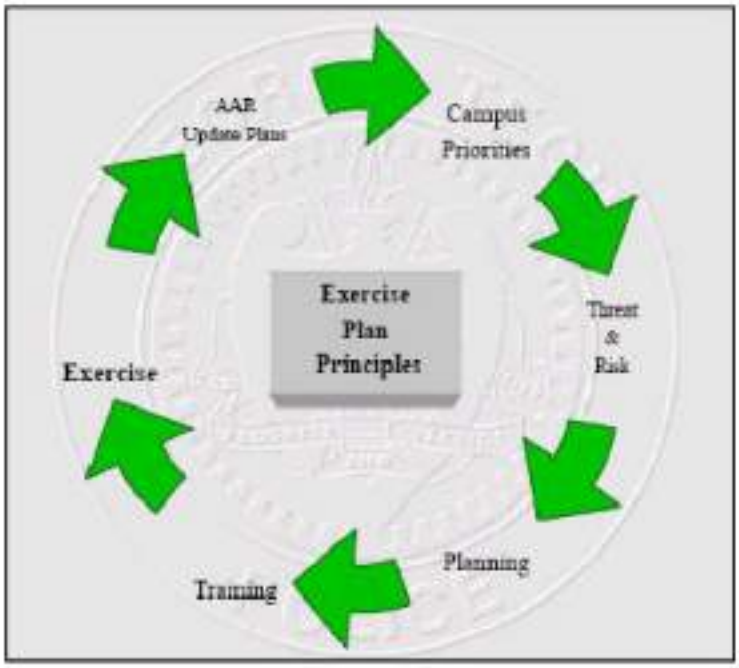
The Emergency Operations Center (EOC) is a vital part of this housing complex emergency preparedness and response plan. It will be staffed with trained personnel whenever a crisis occurs that requires mobilization of campus wide resources to neutralize the disaster.

The EOC is a facility used for centralized direction and coordination of emergency operations. The EOC will be located at the less-traffic area, such as a reception site for arriving mutual aid units.

The IC will establish Seven Critical Tasks in Response

1. Assess the Situation and Establish Communications & Control
2. Identify the "Hot Zone
3. Establish Inner Perimeter
4. Establish Outer Perimeter
5. Establish Scene Command Post
6. Establish Staging Area
7. Identity and Request Additional Resources

Transition to Unified Command can only be achieved through the exercise flow and this must aggressively plan and conduct training and exercises on campus.



As illustrated in the chart above, exercises should be based on the institutional priorities outlined in the Emergency Action Plan, Consequence, Threat and Risk. As with any exercise plan, the most likely emergency on campus must drive the exercise plan, but the most catastrophic result of a disaster also considered. The greatest concern continues to be the "unknown threat," and this must always be a cause for discussion, war-gamming and thinking outside the box. And, common sense must also prevail when planning exercises. **Emergency Notifications have always been included in exercises.**

General

After construction and before the complex become functional, the FMG will establish the following essential components for this complex emergency management –

1. **Emergency Operation Centre (EOC)**, which will provide adequate work space, accommodate the EOC staff, support personnel, and be equipped to communicate with field units throughout the campus.

The EOC must have the capability to communicate with off-campus units and outside agencies. In the event that the primary EOC is inoperable, a secondary command center will be located inside the campus.

The EOC will be fully outfitted and sufficiently self-sustaining to support the coordination and direction of recovery operations for an indefinite period of time.
The EOC will also be operated as the communications center for recovery operations and is staffed by the IC, DIC and other essential personnel.
The EOC and the Service Center are in constant communication for immediate information transfer and decision implementation.

5. Responsibility, Authority and duties of personnel with specific roles during emergency Incident Response System (IRS), in which the operative procedures and commanding persons will be trained and provide responsibilities to manage any emergency situation. This is basically a management system with a number of attributes or system features. This has an inbuilt flexibility and adaptability to be applied to a wide variety of incidents and events both small and large. IRS will have the following management functions –

- Command
- Operations
- Logistics
- Planning
- Finance and Administration

The utility of chain of command will be methodically planned and executed to ensure the maximum possible security of this complex.

6. Evacuation Plan/Procedure

An evacuation policy, procedures, and escape route assignments must be framed to make the residents and visitors familiar with about the person who is authorized to order an evacuation, under what conditions an evacuation would be necessary, how to evacuate, and what routes to take. Exit diagrams are typically used to identify the escape routes to be followed by residents from each specific floor.

Evacuation procedures also often describe actions residents and visitors should take before and while evacuating such as shutting windows, turning off equipment, and closing doors behind them.

Sometimes a critical decision may need to be made when planning - whether or not

residents and visitors should fight a small fire with a portable fire extinguisher or simply evacuate. Portable fire extinguishers may be integrated into the emergency action plan.

Evacuation Planning

Commander is responsible for adequately planning for emergencies that lead to evacuations. Planning includes the pre-determined exit route for evacuating personnel. This exit route shall be

- clearly marked and well lit;
- wide enough to accommodate the number of evacuating personnel;
- unobstructed and clear of debris at all times;
- unlikely exposure of evacuating personnel to additional hazards.

Building floor plans / maps should be posted in conspicuous areas and are to be included as part of the Emergency Action Plan. These plans should detail the location of fire extinguishing devices, alarm boxes, emergency lights, exits, evacuation routes, areas of refuge and identify the floor layout.

Evacuation Procedures:

A building occupant is required by law to evacuate the building when the fire alarm sounds. There may be instances where the building would be evacuated without a fire alarm sounding.

Instruction:

When evacuating your building or work area:

- Stay calm; do not rush or panic.
- Safely stop your work.
- If safe, gather your personal belongings; take prescription medications with you.
- If safe, close your office door and window, but do not lock them.
- Use the nearest safe stairs and proceed to the nearest exit. Do not use the elevator.
- Proceed to the designated EAA and report to your roll taker.
- Wait for any instructions from emergency responders.
- Do not re-enter the building until the emergency responders instruct you.

Drills:

Building evacuation drills are optional for all campus buildings except residence halls. Consult your IC if you wish to have an evacuation or fire drill in your building. The IC is responsible for conducting the drill and documenting it. Obtain a copy of the documentation and submit it to EOC.

7. Internal and External Communication Plan

If an emergency occurs, the designated Incident Commander of the housing complex will execute the appropriate emergency protocol and communicate with residents and visitors.

The campus will in use of a variety of communication vehicles like telephones, both intercom, mobile and two-way radios to support its normal daily campus operations. In every intercom facility there will be a red button which will provide the facility for speed dialing to the EOC during the emergency.

There are two main components to emergency communications:

1. 100 call processing and delivery through Public Safety Answering Points (PSAP) and call dispatch;
2. The Emergency Alert System;

Campus security starts with the main entry point and through the driveway/walkway/ landscapes. After entering any building the stair and elevator plays a crucial role for the easy access to the destination. Entering in a particular residential flat is the next tier of security zone.

The following procedures will be followed for the campus security for the residents and they will be sensitized with the instructions as follows -

A. Emergency Notification Procedures:

When one calls any emergency number to request emergency assistance will be connected to the EOC and IC. Instruction: Call from a safe location, remain calm and be prepared to give the dispatcher as much information about the emergency as you

can (what the emergency is, where it is, if there are injuries and how serious, etc.) The dispatcher will ask questions so do not hang up until you are told to do so. The dispatcher may also give you instructions.

B. Fire Procedures:

A building occupant is required by law to evacuate the building when the fire alarm sounds.

Instruction:

• Immediately notify the fire department by pulling the alarm station. Call 911 at a safe location to provide details of the situation.

• If trained, able and safe (with a sure and safe exit), use a portable fire extinguisher to extinguish the fire. Evacuate if one extinguisher does not put out the fire.

• Evacuate the building as soon as the alarm sounds and proceed to the EAA.

• On your way out, warn others.

• Use stairs only; do not use elevators.

• Move away from fire and smoke. Close doors and windows if time permits.

• Touch closed doors. Do not open them if they are hot.

• Enter the building only when instructed to do so by emergency responders.

C. Earthquake Procedures:

Instruction:

During an earthquake:

Inside the Building:

• Duck under the nearest sturdy object and hold onto it until the shaking stops. If you are not near a sturdy object, make yourself as small as possible and cover your head and neck.

• If you stand in a doorway, brace yourself against the frame and watch out for a swinging door or other obstruction.

• Avoid windows, filing cabinets, bookcases, and other heavy objects that could fall or shatter.

• Stay under cover until the shaking stops, then leave the building and go to the EAA or another designated location.

• If safe, before evacuating, stabilize any laboratory procedure that could lead to further danger. (Example: turn off Bunsen burners or electrical equipment.)

Outside the Building:

• Move away from trees, signs, buildings, electrical poles and wires, fires, and smoke.

• Protect your head with your arms from falling debris.

• Proceed to the EAA or a pre-designated alternate assembly area.

• Stay alert for further instructions.

D. Demonstration/ Civil Disturbance Procedures:

Instruction:

Most demonstrations are peaceful and if one is conducted near or within this complex, carry on business as usual. Avoid provoking or obstructing demonstrators. Should a disturbance occur, call Police for assistance.

If protestors enter your building, let them. Try to carry on business as usual. If the noise becomes too great, or the crowd too large, feel free to close and lock your office doors and/or windows - this is a departmental decision.

E. Criminal or Violent Behavior:

Instruction:

Assist in making your work location a safe place by being alert to suspicious situations or persons and reporting them as outlined below.

If you are the victim of, are involved in, or a witness to any violation of the law such as assault, robbery, theft, overt sexual behavior, etc. call Police (sec. II) as soon as possible. Follow notification procedures. If safe, wait for Police to provide them with more information.

F. Explosion or Bomb Threat Procedures:

Instruction:

A suspicious-looking box, package, object, or container in or near your work area may be a bomb or explosive material. Do not handle or touch the object. Move to a safe area and call the Police immediately. Use a telephone in a safe area. Do not operate any power switches, and do not activate the fire alarm.

If there is an explosion:

• Take cover under sturdy furniture, or leave the building if safe and directed to do so by emergency responders.

• Stay away from windows.

• Do not light matches.

• Move away from the hazard site to a safe location.

• If instructed to evacuate, use the stairs only; do not use the elevators (Sec. III-2).

If you receive a bomb threat (via the telephone):

• Stay calm and keep your voice calm.

• Pay close attention to details. Talk to the caller to obtain as much information as possible.

• Write down the date and time of the call.

• Take notes. Pay attention to details. Ask as many questions as possible:

- When will it explode?
- Where is it right now?
- What does it look like?
- What kind of bomb is it?
- Where did you leave it?
- Did you place the bomb?
- Who is the target?
- Why did you plant it?
- What is your address?
- What is your name?

• Listen to the caller's voice. See if you can identify

- Speech patterns (accent, tone)
- Emotional state (angry, agitated, calm, etc.)
- Background noise (traffic, people talking and accents, music and type, etc.)
- Age and gender

• Write down other data:

- Date and time of call
- How threat was received (letter, note, telephone)

• Call the Police (sec. II) and relay the information from the bomb threat telephone call or bomb threat letter. Follow the Police's instructions.

• Check your work area for unfamiliar items. Do not touch suspicious items; report them to the Police.

• If you are told by emergency responders to evacuate the building, see "Evacuation Procedures" above (sec. III-2).

G. Elevator Failure:

Instructor:

If you are trapped in an elevator, use the emergency telephone inside the elevator to call for assistance or press the elevator alarm inside the elevator to signal for help. Call Elevator Maintenance Company.

8. Conducting periodic emergency and fire drill for testing the effectiveness of the plan

The procedures for conducting fire drills must be included in the fire safety plan. When developing the fire drill procedures, consider the following factors to ensure the fire drills are relevant:

- the building use and associated fire hazards;
- the safety features provided in the building;
- the desirable degree of participation of occupants other than supervisory staff;
- the number and degree of experience of participating supervisory staff; and
- the testing and operation of the emergency systems installed in buildings as per the fire code.

9. Availability and display of information during emergency

IC create maps from floor diagrams with arrows that designate the exit route assignments. These maps should include locations of exits, assembly points, and equipment (such as fire extinguishers, first aid kits, spill kits) that may be needed in an emergency. Exit routes should be:

- Clearly marked and well lit,
- Wide enough to accommodate the number of evacuating personnel,
- Unobstructed and clear of debris at all times, and
- Unlikely to expose evacuating personnel to additional hazards.

- For more information on exit routes, required height and widths, door access and hinges,

Exit routes must meet the following design and construction requirements

- What is an exit route?
- Basic requirements
- Number of exits
- Exit discharge
- Locking arrangements
- Door swing
- Exit route capacity
- Height and width requirements
- Outdoor exit routes

When preparing drawings that show evacuation routes and exits, post them prominently for all residents and visitors

Designate assembly areas or areas, both inside and outside your workplace, where residents and visitors should gather after evacuating. Assembly locations within the building are often referred to as "areas of refuge." Make sure your assembly area has sufficient space to accommodate all of your residents and visitors. Exterior assembly areas, used when the building must be partially or completely evacuated, are typically located in parking lots.

Securing Building Contents:

Many earthquake-related injuries do not come from collapsing buildings, but from objects inside the building which fall on people, or from windows shattering and causing lacerations.

The shelves, computers, wall hangings, and equipment should be physically secured. The main things to look for are:

• Shelves or cabinets that are not bolted to the wall
• Computers/Laptops and its accessories like UPS/Printer/Scanner etc. on desks
• Objects on shelves which may fall or turn into projectiles

• Freestanding objects that do not have a high enough base: height ratio to be "fall proof" (e.g., a filing cabinet over 4 feet tall)
• Desks or seating areas directly under plate glass windows
• Heavy hanging pictures, mirrors, or plants
• Cupboards or cabinets without secure "automatic" latches
• Objects on wheels which are not locked in one position (e.g., an audiovisual cart)
• Heavy items which are above head height.
• Doorways that might be blocked by falling objects

For more information about securing falling hazards, please contact your DSC, BC, or Facilities Services.



All Hazards Emergency Warning Sirens mean shelter in place in a designated safe location, i.e. the community open space, with a provision for open announcement for proper directions and keep people out of panic

<u>Shelter In Place Procedures</u>

- Types:
  - Tornado Warning or other severe weather event
  - HAZMAT Situation
  - Active Shooter, Building Intruder, Civil Disturbance
- When to shelter
  - When you hear the All Hazards Sirens
  - When directed by police/fire personnel
- Specify where to shelter in your building
- What to do:
  - Proceed to the nearest building and find a safe location (reference BEP or Emergency Handbook for specific guidance)

– After getting to a safe location and without jeopardizing your safety, try and obtain additional clarifying information by all possible means possible (e.g. Purdue Homepage, TV, radio, email, etc.)

10. Installation of availability of suitable warning and alarm system at regular interval

SITE EMERGENCY PLAN

AT the Entry Point (Main Gate)

At the entry point, i.e., the main gate there must be

Vehicular access

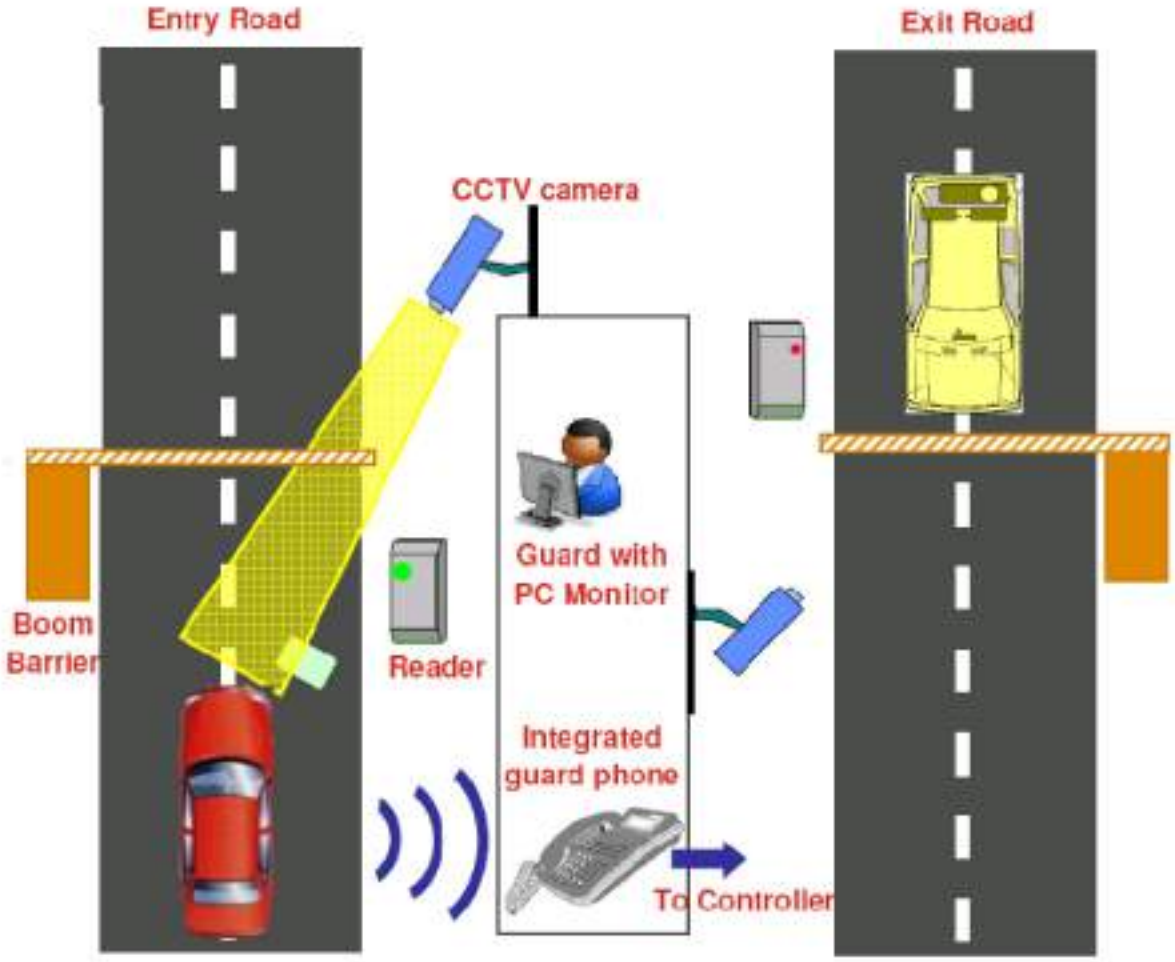
- Boom Barrier, and/or
- Long Range Reader with smart card, and/or
- Car Booster

• Pedestrian access

- Aesthetically designed fast lane flap barrier

• Surveillance of the gate area

- Day & Night vision fixed CCTV cameras



SITE EMERGENCY PLAN

In the Event of a Phone Threat

1. **ABOVE ALL:**

   KEEP CALM AND DO NOT ALARM RESIDENTS.

2. **IF THREAT IS BY TELEPHONE:**

   - Prolong call - keep person talking and ask:
     - Location of Bomb
     - Time Set to Explode
   - Record information for Police as well as any other relevant information as shown on the Phone Threat Checklist

3. REPORT CALL TO SECURITY OR THE SWITCHBOARD

ADVISE THE SECURITY

4. IF OBJECT FOUND:

- Do not touch
- Report find
- Keep areas clear

5. BASIC RULES:

- Treat as genuine
- Record exact information (using checklist if possible)

6. EVACUATION:

- Any bags / articles brought into building on entry should be taken out upon evacuation

SITE EMERGENCY PLAN

In the Event of a Hold-Up

1. **NOTE AND REPORT SUSPICIOUS PERSONS**

2. **IF CONFRONTED, OBEY INTRUDERS INSTRUCTIONS**

3. **OBSERVE CAREFULLY:**

   - ANY ARTICLES TOUCHED BY INTRUDER(S)
   - PHYSICAL DETAILS AND ATTIRE
   - POINTS WHICH MAY AID DESCRIPTION INCLUDING MANNERISMS AND WEAPONS
   - DIRECTION THAT INTRUDERS LEAVE THE AREA

4. **RECORD INFORMATION FOR POLICE**

5. **RING SECURITY AND PROVIDE DETAILS OF INCIDENT**

SITE EMERGENCY PLAN

In the Event of Fire

1. **Telephone 0-000** (State the exact location and details of the fire)
2. Ring Campus Security on **<Ext Here>** (Advise of 0-000 call and provide details)
3. Stay calm; **DO NOT** shout FIRE
4. Direct building occupants to exits
5. Try to extinguish the fire if you are trained to do so. Do not take unnecessary risks
6. Close all doors and windows as you exit if it is safe to do so

Fire Alarms mean "evacuation" to Emergency Assembly Area



- If you hear the fire alarm or you are told to leave the building:
  - Evacuate Immediately upon notification
  - No one can be required to remain
  - Shutdown hazardous operations as quickly as possible
  - Notify others on your way out
  - Close doors as you leave
  - Help those needing assistance
  - Use stairways only…do not use elevators
  - Report to Emergency Assembly Areas for accountability and follow-on instructions
  - Do not reenter the building until authorized by police/fire department personnel

SITE EMERGENCY PLAN

In the Event of a Bomb Threat

1. **ABOVE ALL:**

   KEEP CALM AND DO NOT ALARM BUILDING OCCUPANTS

2. **IF THREAT IS BY TELEPHONE (Use Phone Threat Checklist):**
   - Prolong call - keep person talking and ask:
     - Location of Bomb
     - Time Set to Explode
   - Record information for Police as well as any other relevant information using Phone Threat Checklist

3. **PHONE POLICE ON 0-000 and CAMPUS SECURITY ON <Ext Here>**
4. **IF OBJECT FOUND:**
   - Do not touch
   - Report find
   - Keep areas clear

5. **BASIC RULES:**
   - Treat as genuine
   - Record exact information

6. **EVACUATION:**
   - Any bags / articles brought into building on entry should be taken out upon evacuation
   - On evacuation **DO NOT** assemble near vehicles.

The evacuation assembly point for this building is <u><LOCATION OF ASSEMBLY POINT></u>

After hours contact Numbers using Phone in <Location>:

Police / Ambulance / Fire Brigade –

Campus Security –

Nearest First Aid –

If using private Mobile Phone:

Police / Ambulance / Fire Brigade –

Campus Security –

First Aid –

SITE EMERGENCY PLAN
In the Event of High Winds

In case of high winds, these measures are designed to provide for a higher level of safety during these events.

During periods of high wind warning, residents and staffs should not access their building.

The following procedures are provided for safety and welfare in periods of high wind warning:

NO WARNING – CAUGHT OUTSIDE DURING A WIND STORM

1. Move to open areas away from trees and building lines. Trees and building areas are more dangerous due to the possibility of falling tree limbs and building roofs and tiles.
2. If safe, proceed to the nearest building and stay at ground floor level and away from windows and glassed areas.
3. Stay put until danger of flying debris has abated.

NO WARNING – CAUGHT INSIDE DURING A WIND STORM

1. Close all doors and windows in your immediate vicinity. Turn off TV, computers and other electrical items if time permits.
2. Proceed to a safe area within your building or accommodation, preferably at ground floor level and away from windows and glassed areas.
3. Close windows and blinds to minimize risks of flying glass should the window be struck by a flying object during the storm. Keep staff from looking out of windows.
4. If available, have torches or other battery powered lighting ready should the power fail.
5. Remain inside until the storm has passed.

SHORT NOTICE OF WIND STORM

1. Building Wardens, Building Managers or Residential Advisors to take control.
2. Arrange for loose objects to be collected from outside building.
3. Arrange to have torches or other battery powered lighting ready should the power fail.

4. All residents to secure individual areas or rooms – close windows and pull blinds, turn off all electrical appliances and close doors.
5. Proceed to a safe area within your building, preferably at ground floor level and away from windows and glassed areas.
6. Remain inside until storm has passed.

ADVANCED WARNING OF WIND STORM

1. Head of Campus (or nominee) to authorize to arrange for any nominated buildings to be evacuated and secured.
2. Arrange for service people to be placed on standby.
3. Person responsible for First Aid to prepare for a coordinated first aid response. Check that First Aid kits are readily available.
4. Fill fuel tanks on all service vehicles and emergency generators, if any.
5. All staff to secure individual work areas – close windows and pull blinds, turn-off all electrical appliances and close doors.
6. Staff to be ready to move to a safe area within their building, preferably at ground floor level and away from windows and glassed areas, when advised by Building Warden.
7. Remain inside until storm has passed.

SITE EMERGENCY PLAN
SUSPICIOUS PACKAGES AND PERSON(S)

Suspicious packages

Suspicious packages should be reported immediately to the security inside the complex and security may take further decision to inform police. A suspicious package should not be touched or moved, and the immediate area surrounding the package should be cleared. Some letter and parcel recognition points are:

- Excessive weight; excessive postage or no postage
- Incorrect titles or titles, but no names
- Handwritten or poorly typed; misspelling of common words
- Oily stains or discolorations; protruding wires or foil
- Excessive securing materials such as masking tape, string, etc.
- No return address; restrictive markings such as confidential, personal, etc.
- Rigid or lopsided or uneven envelope
- Visual distractions; foreign mail, air mail, or special delivery
- Strange odor

Suspicious persons

Suspicious persons should not be directly confronted, but should be reported to immediately to the security inside the complex and security may take further decision to inform police. Provide the response person with as much information as possible including a description of the person or persons, the nature of their activity, and their location and direction of travel.

SITE EMERGENCY PLAN
INJURY AND ILLNESS

If someone has an injury or becomes suddenly ill and requires emergency medical attention, call ….. Advise the location of the victim and the nature of the injury or illness. In the complex there should be a list of ambulance or emergency medical service contact numbers.

For any injured or ill person:

1. Call ….
2. Keep the person as comfortable as possible.
3. Do not move the person, which is necessary for his/her safety.
4. Never administer liquids to an unconscious victim.

SUMMARY SHEET
(KEEP THIS NEARER IN A PROMINENT PLACE)

SITE EMERGENCY PLAN

THESE PROCEDURES ARE FOR 24 HOURS EACH DAY IN AN EMERGENCY

1. Immediately the emergency is known, phone ☐

2. Then contact Security Head Mr/Ms ☐

   or

   Internal Shortcut Extension ☐

   If Security does not answer, contact the relevant Person

To ensure an orderly evacuation in any emergency, await directions from your advisory (only if it is safe to do so!)

Emergency personnel are:

	Name	Number Mobile & Ext.
EOC		
IC		
DIC		
Assembly Point		

11. Maintenance of emergency rescue equipment in good condition

Equipment and procedures dealing with egress and exit facilities, fire alarm systems, voice communication systems, fire suppression systems, Emergency lighting and power and other life safety devices and features will play a major role in enhancing occupant safety in the event of a fire and/or explosion. Property owners and managers must ensure that these life safety features are maintained in operable condition and ready for use at all times.

ANNEXURE 6

Details of Project Affordable Housing Complex In Aerotropolis Township At J.L. No.- 36, Mouza – Dakshinkhanda, P.S- Andal, Dist – Paschim Bardhaman, Near Durgapur, West Bengal, by IABA Housing Pvt. Ltd.

The project proponent wants to develop an affordableHousing Complex atL.R. Plot No.- 5650 (P), 5708 (P), 5710 (P), 5711 (P), 5712 (P), 5713 (P), 5714 (P), 5716 (P), 5718 (P), 5719 (P), 5720, 5721 (P), 5722 (P), 5723 (P), 5724, 5728 (P), 5729 (P), 5730 (P), 5731, 5732, 5733, 5734, 5735, 5736, 5737, 5738, 5739, 5740 (P), 5741, 5742 (P), 5743 (P), 5744, 5745, 5746 (P), 5747 (P), 5748 (P), 5749 (P)5792 (P), 5793 (P), 5794 (P), 5820 (P), 5822 (P) & 5718/7748 (P), L.R. Khatian No. -3993, J.L.No.- 36, Mouza – Dakshinkhanda, P.S – Andal, Dist –Paschim Bardhaman, West Bengal.

Land area of the project	45296.112sqm
Proposed Ground Coverage	9494.412sqm (20.96%)
Exclusive Tree Plantation Area	9065.011sqm (20.01%)
No. of storied	**Residential Towers:** Tower 1A– S + 13 Tower 2A, 2B& 2C– S + 13 Tower 3A3B – S + 13 Tower 4A, 4B, 4C, 4D & 4E– S + 13 Tower 5 A – S + 13 Commercial Community Facility – G + 1 storied Viewing Gallery between Tower 1A and 2B
No. of Flats	988 nos.
Total Built-up area	**109987.324 sqm**
Source of Water	Bengal Aerotropolis Projects Limited(BAPL)
Quantum of Water required	735 KLD
Quantity of Wastewater Generation	538 KLD
Treated Wastewater Recycled	211 KLD
Quantity of Wastewater Discharge	327 KLD
Quantum of Fresh Water required	524 KLD
Quantity of Solid Waste Generation (operational phase)	2600 Kg/day
Constructional phase Water Demand	73 KLD (62 KLD for workers and 11 KLD for construction work)
Total Population During Construction	888 persons
Total Population During Operation	6136 (Fixed – 5468, Floating – 613 and Service - 55) persons
Electricity (Connected Load)	2750 KVA
Electricity Supplied By	IPCL
D.G. Sets	4 nos. of 500 KVA
Fuel (diesel) required for D.G. Sets	320litre/hr.

Details of Project Affordable Housing Complex In Aerotropolis Township At J.L. No.- 36, Mouza – Dakshinkhanda, P.S- Andal, Dist – Paschim Bardhaman, Near Durgapur, West Bengal, by IABA Housing Pvt. Ltd.

Stack Height for D.G. Sets	4.5m for 500 KVA DG set above the roof of the building
Car Parking required	783 Nos.
Car Parking Provided	988 Nos.
Total no. of trees provided	650 nos.
Latitude & Longitude of site	23°36'02.56"N & 87°13'27.60"E
Permissible Top Elevation as per AAI CCZM	130.97 m. AMSL.

POPULATION CALCULATION

Sl. No.		Total no. of flats/ bua in sqm	Rate	Total Popu. (round fig.)	Ref:
1	**RESIDENTIAL**				
a	2 BHK Flats	468	5	2340	NBC 2016- VOL 2, PART 9, Section 1, Page No. 11, Point 4 : Water Supply
b	3 BHK Flats	520	6	3120	
c	**Residential (Fixed)**	**988**		**5460**	
2	**Retail**				
a	Shops (Ground Floor)	223.421	0.33	75	NBC 2016- VOL 2, PART 9, Page No.11, Point 4.1 (b) 1 Person per 3 sqm of street floor and 1 Person per 6 sqm of upper sale floor
b	Total			**75**	
c	**Retail (Fixed) - 10% of total retail population**			8	
d	**Retail (Floating) - 90% of total retail population**			67	
3	**Club (floating)**			**546**	Club & Community Hall will be used by the residents only. Here we have considered outside guests only as 10% of residential fixed population
4	**Total Fixed persons**			**5468**	Sl. No.1c
5	**Service Persons**			**55**	1% of fixed Population
6	**Total Floating population**			**613**	by adding Sl. No.2d, 3 & 5
			Total	**6136**	by adding Sl. No.4, 5 & 6

Details of Project Affordable Housing Complex In Aerotropolis Township At J.L. No.- 36, Mouza – Dakshinkhanda, P.S- Andal, Dist – Paschim Bardhaman, Near Durgapur, West Bengal, by IABA Housing Pvt. Ltd.

WATER SUPPLY, WASTEWATER GENERATION, RECYCLING AND DISCHARGE

Daily water demand of the proposed project during operation phase will be 735 KLD. Out of the total water demand 524 KLD will be the fresh water demand and rest 211KLD (Landscaping – 54 KLD; Car Washing – 30 KLD, Flushing – 127 KLD) will be recycled from treated wastewater.

The total wastewater generated from this project during operational phase is around 538 KLD. There will be no STP within this project area.

RECYCLED: 211 KLD(Landscaping – 54KLD; Car Washing – 30 KLD, Flushing – 127 KLD)

Treated wastewater discharge to Bengal Aerotropolis Projects Limited (BAPL) drain – 327 KLD. The fresh water will be extracted from BAPLsupply.

	Total popu.	Water Supply Rate (lpcd)			Total Water Requirement (litre/day)			Total
		Domestic (lpcd)	Flushing (lpcd)	Total lpcd	Total Domestic (litre/day)	Total Flushing (litre/day)	Total litre/day	KLD
Residential (Fixed)	5460	90	21	111	491400	114660	606060	606
Retail (fixed)	8	25	20	45	200	160	360	1
Club (Floating)	546	25	20	45	13650	10920	24570	25
Retail (floating)	67	5	10	15	335	670	1005	1
Service Persons	55	25	20	45	1375	1100	2475	2
Sub Total 1	**6136**				**506960**	**127510**	**634470**	**635**
Landscaping								54
Car Washing								30
Swimming Pool Make up water								10
Losses								6
Sub Total 2								**100**
TOTAL WATER REQUIREMENT								**735**
Total Wastewater Generation (80% of Sub-Total1 + Car Washing)								**538**
Total Wastewater discharge								**327**
Total Recycling								**211**
Landscaping								54
Flushing								127
Car Washing								30
Fresh Water Requirement								**524**
OCCUPANCY RATE AS PER NBC 2016, PART 9, PAGE 11, SECTION 1,CLAUSE 4.1								

Note 1 : Total waste water generation = 538 KLD. Wastewater generated will be diverted to the main STP. There will be no STP within this project area.

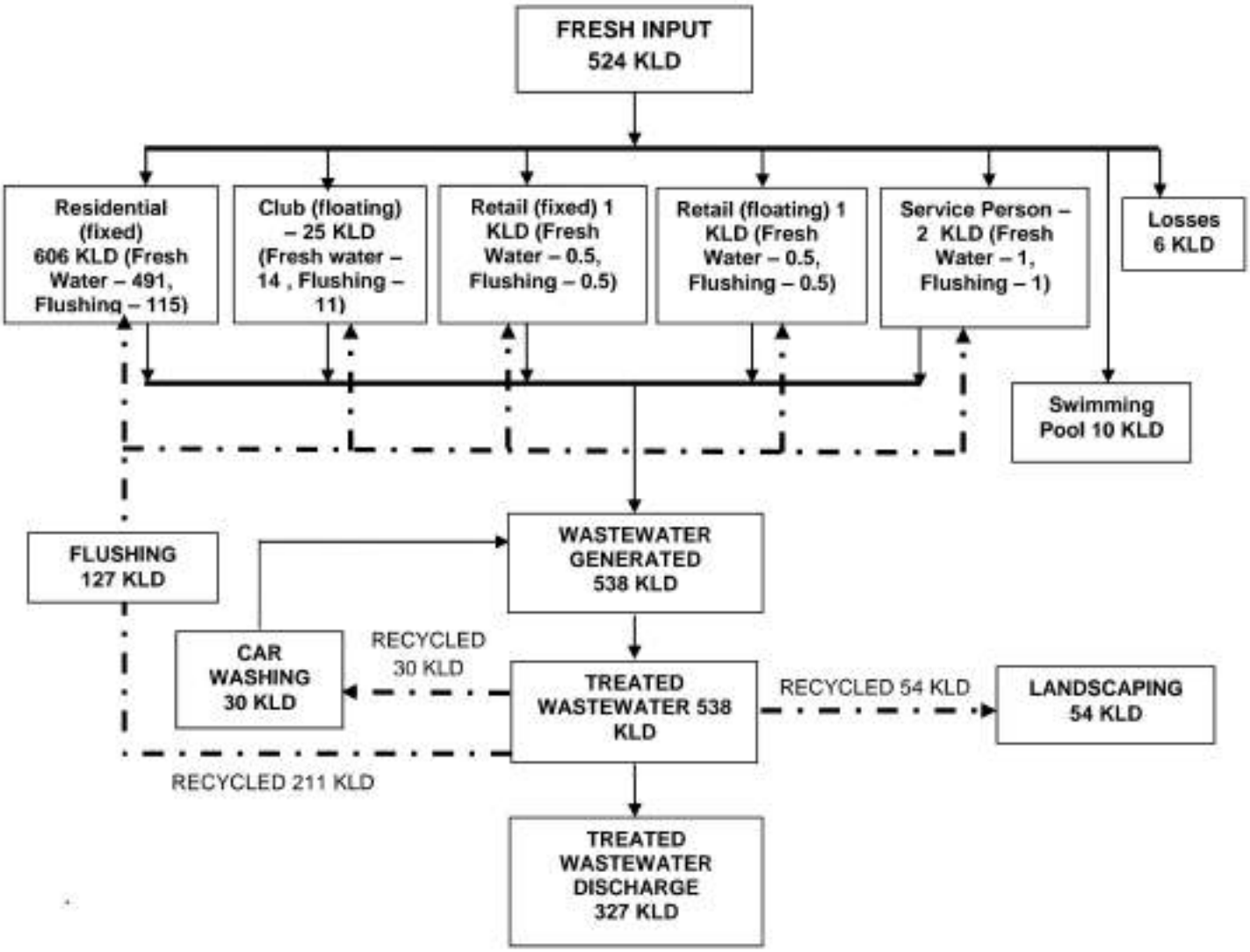
Note 2: As per Construction Manual vide Paragraph 2.3.3 Water Use Reduction, we are using cistern holding capacity of 3/6 litre per flush. Considering - 6 litre per flush for 2 times a day and 3 litre per flush for 3 times a day, totalling to 21 lpcd for flushing.

Details of Project Affordable Housing Complex In Aerotropolis Township At J.L. No.- 36, Mouza – Dakshinkhanda, P.S- Andal, Dist – Paschim Bardhaman, Near Durgapur, West Bengal, by IABA Housing Pvt. Ltd.

Note 3 : As well as we will adhere the **NBC 2016, PART 9, PAGE 17, SECTION *4.7.3.3*** : *Maximum Flow Rate, which is reproduced hereunder –*

"Water Closet with dual flush cistern and urinals with reduced flush volumes are recommended. Further users/designers are encouraged to use low flow fixtures."

WATER BALANCE DIAGRAM



SOLID WASTE GENERATION AND ITS MANAGEMENT

Garbage will be segregated at source for biodegradable, recyclables and inert material during construction (177.6 kg/day) (888 persons @ 0.2 kg/day) and operational phases (2600 kg/day). Organic portion (about 40% of total quantity) will be treated in-house by installing mechanical composter, In-organic recyclables will be sold to the vendor and in-organic inert material will be disposed off in SLF by Project proponent in association with Bengal Aerotropolis Projects LimitedBAPL) as per the guideline given by MSW (M & H) rules 2016.

Details of Project Affordable Housing Complex In Aerotropolis Township At J.L. No.- 36, Mouza – Dakshinkhanda, P.S- Andal, Dist – Paschim Bardhaman, Near Durgapur, West Bengal, by IABA Housing Pvt. Ltd.

	Person	Rate	Total
		kg/day	kg/day
Residential (Fixed)	5460	0.45	2457
Retail (fixed)	8	0.2	1.6
Club (Floating)	546	0.2	109.2
Retail (floating)	67	0.1	6.7
Service Persons	55	0.2	11
	GRAND TOTAL		**2585.5**
	SAY		**2600**

Organic Waste generation is = 2600 X 40% = 1040 kg/day. Design capacity of OWC is 1050 Kg/day.

MSW Area Calculation		
Total Solid waste generated	**2600**	**kg/day**
Volume required for segregation for the entire project	13	cum
Area required for storage and segregation for the entire project (Storage depth 0.5 m)	26	sqm
Adding 20% area for movement	5.2	sqm
Total area for storage and segregation of waste	**31.2**	**sqm**
Organic waste generated	**1040**	**kg/day**
Requirement of area for composting	20.8	sqm
Storage area for compost (50%)	10.4	sqm
Total area requirement for organic waste composting	**31.2**	**sqm**
Total Area requirement for Municipal Solid Waste Management including OWC	**62.4**	**sqm**
Say	**65**	**sqm**

Total Area requirement for Municipal Solid Waste Management including OWC is 65 sqm.

STORM WATER MANAGEMENT

The surrounding area is mainly composed of Housing area. The total land area of the proposed project is 45296.112 sqm. By applying rational formula the peak rate of storm runoff considering 12 mm/hr rainfall is given hereunder.

Total land area is 4.52 ha. By applying rational method the peak rate of run-off = 10 x 0.60 x 12 x 4.52 cum/hr = 325.44 cum/hr = 0.0904 cum/sec. Non scouring and non-silting velocity is 1 m/sec. The required diameter of pipe is 350 mm.

The storm drains of the complex will collect and convey the rainwater into the adjacent BAPLdrain. The internal drainage system will be designed considering the invert level of the BAPL drain (outfall) in-front of the project site to avoid any flooding or water logging in the site.

Details of Project Affordable Housing Complex In Aerotropolis Township At J.L. No.- 36, Mouza – Dakshinkhanda, P.S- Andal, Dist – Paschim Bardhaman, Near Durgapur, West Bengal, by IABA Housing Pvt. Ltd.

RAIN WATER HARVESTING

As per MoEFCC guideline for Rain water harvesting:

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. All recharge should be limited to shallow aquifer.

Roof Top Rain water storage: Atleast 1 day fresh water demand
Recharge structure: 1 recharge structure for every 5000 sqm of built up area

Requirements:

Fresh water demand for the project is : 524 KLD
Total Built Up area of the project is : 109385.174sqm
No of Recharge structure is : 21.88nos. = 109385.174/5000

Proposal:

Storage Tank/s : 530 KL
Recharge Structures : 22 Nos.

ELECTRICITY, DG SETS, STACK HEIGHT

Electricity will be supplied by IPCL. The electrical load will be about 2750 KVA. DG sets – 4 nos. 500 KVA are proposed. The emission from DG sets will be discharged through a 4.5 m stack for each 500 KVA DG set above the roof of the building. Fuel required for DG sets will be about 320 litre/hr.

TREE PLANTATION DETAILS

LIST OF TREES PROPOSED FOR PLANTATION			
SL. NO.	**BOTANICAL NAME OF TREES**	**COMMON NAME OF TREES**	**QUANTITY (In Nos.)**
1	*Mimusops elengi*	Bakul	45
2	*Delonix regia*	Gulmohar	57
3	*Mangifera indica*	Mango	51
4	*Neolamarckia cadamba*	Kadam	15
5	*Terminalia arjuna*	Arjun	43
6	*Aegle marmelos*	Bael	15
7	*Peltophorum ferruginium*	Radhachura	61
8	*Azadirachta indica*	Neem	17
9	*Syzygium samarangense*	Jamrul	88
10	*Artocarpus heterophyllus*	Jackfruit	37
11	*Lagerstroemia sp*	Jarul	73
12	*Acacia acuminata*	Jam	65
13	*Cassia fistula*	Amaltas	83
TOTAL			**650**

Details of Project Affordable Housing Complex In Aerotropolis Township At J.L. No.-36, Mouza – Dakshinkhanda, P.S- Andal, Dist – Paschim Bardhaman, Near Durgapur, West Bengal, by IABA Housing Pvt. Ltd.

Land Area	= 45296.112 sqm
Exclusive Tree Plantation Area	=9065.011sqm (20.01% of land area)
Mandatory nos. of trees proposed	=650 nos.

FIRE FIGHTING

There will be all provisions as per NBC-2016 and other norms of fire fighting for the given height of the building. Clearance from WBFES will be obtained.

ANNEXURE 7

Government Of West Bengal
Office Of The Director General
West Bengal Fire & Emergency Services
13D, Mirza Ghalib Street, Kolkata - 16

Memo no.:FSR/0125186209102953 Date: 11-02-2021

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

To: IABA Housing Private Limited
5,GORKY TERRACE,2ND FLOOR,KOLKATA 700017,

Sub: Fire Safety Recommendation in favour of proposed 12 Blocks of S+13 Storied Building Under Group Residential and One Block of G+I Storied Building (Community Hall) Under Group Assembly of IABA Housing Pvt Ltd, Registered Office at Gorky Terrace, 2nd Floor, Kolkata- 700017 At Premises No. L.R.-5650P,5708P,5710-5714P,5716P,5718-5719P,5720,5721-5723P,5724,5728-5730P,5731-5739,5740P,5741,5742-5743P,5744-5745,5746-5749P,5792-5794P,5820P,5822P,5718/7748P L.R.Khatian No-3993,J.L NO.-36,MOUZA-DAKSHINKHANDA, under Andal PS District Paschim Bardhaman , West Bengal

This is in reference to your application no. 0125186209102953 dated 02-12-2020 regarding the Fire Safety Recommendation in favour of proposed 12 Blocks of S+13 Storied Building Under Group Residential and One Block of G+I Storied Building (Community Hall) Under Group Assembly of IABA Housing Pvt Ltd, Registered Office at Gorky Terrace, 2nd Floor, Kolkata- 700017 At Premises No. L.R.-5650P,5708P,5710-5714P,5716P,5718-5719P,5720,5721-5723P,5724,5728-5730P,5731-5739,5740P,5741,5742-5743P,5744-5745,5746-5749P,5792-5794P,5820P,5822P,5718/7748P L.R.Khatian No-3993,J.L NO.-36,MOUZA-DAKSHINKHANDA, under Andal PS District Paschim Bardhaman , West Bengal

The plan 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 is issuing Fire Safety Recommendation in favor of the aforesaid building subject to the compliance of the following fire safety measure.

Recommendation:
(A)CONSTRUCTION:

•The whole construction of the Proposed buildings shall be carried out as per approved plan drawings conforming the relevant building rules of local Municipal Body.

•The floor area exceeds 750 m2 shall be suitable compartmented by separation walls up to ceiling level having at least Two

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hours Fire resisting capacity.

•The interior finish decoration of the building shall be made of low flame spread materials conforming to I.S. specifications.
•Provision of ventilation at the crown of the central core-duct of the building shall be provided.

•Arrangements shall have to be made for sealing all the vertical & horizontal ducts by the materials of adequate Fire resisting capacity & the doors of service ducts / shafts of 2hr. Fire rating.

(B)OPEN SPACE & APPROACH:

•The open spaces surrounding the building shall conform the relevant building rules as well as permit the accessibility and maneuverability of Fire Appliances with turning facility.

•The approach road shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 M.T.

•The width and height of the access gates into the premises shall not be less than 4.5 and 5 M respecting abutting the road.

(C)STAIRCASE:

•The staircase of the building shall be enclosed type. Entire construction shall be made of bricks / RCC type having Fire Resisting Capacity not less than 4 hours.

•The staircase of the building shall have permanent vents at the top and open able sashes at each floor level in the external wall of the building.

•The width of the Staircase shall be made as shown in the plan. Corridors and the exit doors shall conforming the relevant building rules and well as rules of the cinematograph act. with up to date amendments.

•All the staircases shall be extended up to terrace of the building and shall be negotiable to each other without entering into any room.

•Fire & Smoke doors at the entrance of all the staircase enclosures as shown/marked in the plan at each floor level shall be provided. The F.C.D. shall be of the least one two hours Fire resisting Wire Glass Window fitted with self closing type openable in the direction of escape.

(D)LIFT :--

•The walls of the lift enclosure shall be at least two hours Fire Resisting type.

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•Collapsible gate shall not be permitted.

•One of the lifts shall be designed for Fire Lift. The word "Fire Lift" shall conspicuously be written at ground floor.

•In case of failure of normal electric supply, it shall automatically trip of alternate supply and also shall have manually operated change over facility. Alternatively, the lift shall be so wired that in case of power failure, it comes down at ground level stands still with door open.

•All other requirements shall confirm the I.S. specification including the communication facility in the lift cars connecting with the Fire Control Room of the building.

(E)FIRE FIGHTING WATER :

•Underground water reservoir having water capacity of 400000 Ltrs. and O.H.W.R. 5000 ltrs at each tower capacity exclusively for firefighting purpose shall be kept full at all time.

•The Fire water reservoir shall have overflow arrangement with the domestic water reservoir as well as to avoid stagnancy of water.

•Provision of necessary manhole shall be made on the top of this reservoir as per specification.

•Provision of replenishment at the rate of at least2000 lts./min. from two spate source of water supplies shall be made.

•The deep tube wells for the replenishment of the reservoir shall be incorporated with auto starting facility with actuation of auto detection and suppression arrangement of the premises and shall also be connected with duel power supply units.

•Provision of placing Fire Appliances on the underground water reservoir to be made to draw water in case of emergency.

(F)WATER LAYOUT SYSTEM:

•The building shall be provided with wet riser with 150mm. internal diameter Pipe Line with provision of Hose Reel Hose at the Staircase landings / half landings. The system shall be so designed that shall be kept charged with Water all the time under pressure All other requirements shall conforming I.S. 3844 – 1989.

•Provision for Hose Reel units on swiveling drum in conjunction with Wet Riser cum Down Comer shall be made near each lading valves.

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

•Two fire service inlet near the entry or exit of the premises facing to the abutting road/roads shall have to be provided.

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•All the assembly area along with annicilliary part thereof , parking area , Mercantile area floors shall have to be provided with Auto-sprinklers and Auto Detection system

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 be of diesel driven type.

•Provision of Jockey Pump/Stand by 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.
•The Discharge Capacity of Jockey shall have to be 180LPM considering other IS specification.
•The Discharge Capacity of Main shall have to be 2850 LPM considering other IS specification.

•The Discharge Capacity of Stand by shall have to be 2850 LPM considering other IS specification.

•The Discharge Capacity of Diesel driven fire pump shall have to be 2850LPM considering other IS specification.

(G)ELECTRICAL INSTALLATION & DISTRIBUTION:

•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.

•Electrical distribution system shall conform all the requirements as laid in I. S. 1646-1982.

•The electrical installation shall be adequately protected with automatic CO2/D.C.P.

•All electrical installation viz. Transformer Switch Gear L. T., H. T. rooms shall be protected with both auto detection and suppression systems as per suitability.

(H)Alternative Power Supply :

a.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 in case of normal power failure.

(I)DETECTION AND ALARM SYSTEM:

•Manually operated Electrical Fire Alarm system at each floor level with at least three numbers of break glass type call boxes fitted with Hooters along with public address system, at each floor connecting with audio-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.

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•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.

•All floors shall have to be provided smoke detectors as per N.B.C. 2016 and I.S. Specification

(J)Public Address System :-

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

(K)FIRSTAID FIRE FIGHTING SYSTEM:

•First Aid firefighting 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. 2190-92.

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

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

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

•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.

•A crew of trained Fireman under an experienced officer shall be maintained round the clock for safety of the building.

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

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Director
West Bengal Fire & Emergency Services

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ANNEXURE 8

Government of West Bengal
Directorate of Forests
Office of Divisional Forest Officer, Durgapur Division
Aranyapally, Shashtri Avenue, Durgapur-12
E-mail- dfodurgapur@yahoo.in
Office Tel. / FAX- 0343-2537229

Memo No. 5075/2-50 **Dated, Durgapur, The 01/02/2022**

To :: The Director,
IABA Housing Pvt. Ltd.,
5 Gorky Terrace, 2nd Floor,
Kolkata-700017.

Sub. :: Approval of revised plantation plan.

Ref. :: Your application no. IABA/21-22/FOREST/01, Dt. 03.12.2021.

*****

With reference to the above, the revised plantation plan submitted by you is hereby approved by the undersigned with the following conditions.

I) The approval is purely technical i.e. species composition, spacing, planting pattern etc. is approved considering the total land area and land under plantation.

II) Certificate of Clearance already given vide this office Clearance No. 05/CC/D/2020, Dt. 12.02.2020 as per sub-section (4) of section 9 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Act, 2006.

III) The approval shall automatically be cancelled if the user agency does not complete the plantation works in accordance to the plan within 6 (Six) months from the date of sanction of the building/construction plan of the sanctioning authority.

IV) A compliance certificate duly authenticated by the Range Officer, Ukhra Range shall be submitted after completion of plantation works.

Enclosed: Approved Plantation Plan.

Divisional Forest Officer
Durgapur Division

Memo No. 5076/2-50 **Dated, Durgapur, The 01/02/2022**

Copy forwarded to the Range Officer, Ukhra Range for his information & necessary action. This is in reference to his enquiry report letter no. 12/UK-2, Dated 13.01.2022.

Sd/- N. Panda

Divisional Forest Officer
Durgapur Division

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ANNEXURE 9

EXCLUSIVE TREE PLANTATION DRAWING SHOWING NOS. OFTREES ALONG WITH NAME, NOS. AND SPACING



LIST OF TREES PROPOSED FOR PLANTATION				
SL. NO.	BOTANICAL NAME OF TREES	COMMON NAME	SPACING OF TREES	QUANTITY
1	*Mimusops elengi*	Bakul(A)	3.0m	45
2	*Delonix regia*	Gulmohar(B)	3.0m	57
3	*Mangifera indica*	Mango(C)	3.0m	51
4	*Neolamarckia cadamba*	Ladam(D)	3.0m	35
5	*Terminalia arjuna*	Arjun(E)	3.0m	43
6	*Aegle marmelos*	Bael (F)	3.0m	35
7	*Peltophorum ferruginum*	Radhachura(G)	3.0m	61
8	*Azadirachta indica*	Neem(H)	3.0m	37
9	*Syzygium samarangense*	Jamrul(I)	3.0m	88
10	*Artocarpus heterophyllus*	Jackfruit(J)	3.0m	37
11	*Lagerstroemia sp.*	Jarul(K)	3.0m	73
12	*Acacia acuminata*	Jam(L)	3.0m	65
13	*Cassia fistula*	Amaltas(M)	3.0m	84
	TOTAL			650

PROPOSED TREE PLANTATION AREA	
SL. NO.	AREA(SQM.)
1	379.174
2	1210.731
3	385.807
4	2173.911
5	152.143
6	188.231
7	131.086
8	149.877
9	379.177
10	2563.025
11	87.75
12	1166.302
TOTAL	9065.011

LEGEND :-
SAND AREA
EXCLUSIVE TREE PLANTATION AREA
EXCLUSIVE TREE PLANTATION AREA
EXCLUSIVE TREE
LEGEND :-
GROUND COVERED AREA
EXCLUSIVE TREE PLANTATION AREA
PAVED AREA
OPEN PARKING AREA
SERVICE AREA

ANNEXURE 10

EMP

Recommended Mitigatory measures during Construction Phase

The impact of the construction phase on the environment would basically be temporary in nature and is expected to finish on completion of the construction programme. The following measures will be adopted by the project proponent during carrying out of this construction :

- Proper drainage facilities will be implemented to avoid wastewater/water stagnation from possible sources like, catch pits or sedimentation basins to restrict the breeding of mosquitoes.
- Most of the work in construction phase will be labour intensive. The labourers require fuel for their cooking. The Contractor in assistance with the project authority will assist to establish a system of distribution of fuel through local administration to restrict any illegal felling of trees.
- Proper Sanitary arrangement for the workers will be done within the project site.
- Initiations of plantation program all around the complex will be carried out. The plantation will reduce the fugitive dust as well as dampens the noise levels. In addition to that it will definitely improve the aesthetic value of the area.
- Rubbish, debris, broken materials and others will be kept properly within project area at suitable place with proper water sprinkling arrangement to prevent fugitive dust spreading.
- Introduction of screening wall all around the project area to such a height will be made so that fugitive dust does not travel outside the project area.
- Water will be sprinkled on regular basis on road surface, material dumping and handling areas and other places to reduce dust from work place, during material handling and traffic movements.
- Limiting vehicle speed so that it will not generate dust.
- The construction materials will not be dumped on public roads around the property.
- Applying water and maintaining soils in a visible damp condition for temporary stabilization.
- Loading and unloading of construction materials will not be done at night at the store yard considering the huge noise likely to be generated from this activity.
- Concrete pouring and casting will not be done at night.
- Ambient and DG set noise levels not to exceed the permissible limit. Every care to be taken for noise control.
- Construction site will be disinfected at regular intervals.
- Ensuring that walking surfaces or boards at height were of sound construction and will be provided with safety rails or belts.
- Providing protective equipment; helmets etc.
- Fire extinguishers and buckets of sand etc. will be provided in the fire-prone area and elsewhere.
- Adequate emergency first aid system will be provided at project site.

EMP

Recommended Mitigatory Measures during Operation Phase

It is advised to adopt the following mitigatory measures by the project authority in order to mitigate and control the environmental impacts that may arise due to operation of the project.

1) Wastewater generated from this project during operational phase is around 538 KLD. There will be no STP within this project area Sewage generated from the proposed project will be conveyed to the common STPs (2 in number) within township for treatment. The quantity of treated waste water recycled is 211 KLD (Landscaping: 54 KLD + Car Washing: 30 KLD + Flushing: 127 KLD). The excess treated wastewater is getting discharged into the Bengal Aerotropolis Projects Limited (BAPL) drain.

2) During Construction phase the amount of solid waste to be generated will be around 177.6 kg/day (888 persons @ 0.2 kg/day) and operational phases 2600 kg/day. Organic portion (about 40% of total quantity) will be treated in-house by installing mechanical composter, In-organic recyclables will be sold to the vendor and in-organic inert material will be disposed off by Project proponent in association with Bengal Aerotropolis Projects Limited (BAPL) as per MSW (M&H) Rules, 2016.

3) Plantation development program will be initiated during the construction period. Water will be sprinkled at regular intervals on road surface and other places to reduce dust from traffic movements. Suitable rainwater harvesting system will be installed to utilize the rainwater in best possible manner.

4) Environmental awareness among all the peoples is very much needed for proper environmental management. Overall improvement of the environment quality will be dependant on the environmental awareness among all the sections of people associated with the proposed project.

5) Good housekeeping practices play a vital role in the area of all environmental management plans.

6) Guideline should be provided to the users to ensure conservation of energy and water.

EMP

POST PROJECT MONITORING PROGRAM

The suggested post project monitoring to be conducted in various categories are:

Sl. No.	Type	Locations	Parameters	Period and Frequency
1.	Stack emission Monitoring	Stack of DG sets	PM, SO_2, no_x, & CO	Once in 4 months or/ and as suggested by WBPCB.
2.	Raw & treated Wastewater Quality	Inlet and outlet of STP	Parameters - BOD, COD, pH, TSS, Oil & Grease and coli forms or as suggested by WBPCB.	Once every season or/ and as suggested by WBPCB.
3.	Fire & Emergency Safety Measures	Project site	-	Six monthly.

ANNEXURE 11

FORM 4

[See Rules 9(3) and 10(5)]

(EMBLEM OR HOLOGRAM OF THE CONCERNED AUTHORITY)

U68026

PERMIT FOR SINKING OF NEW WELL

[U/S 7(3)(b) / 7(4)(b) / 7(5)(a) of the West Bengal Ground Water Resources (Management, Control and Regulation) Act 2005.]

PERMIT NO P22010360571300000 1 TSE

1. (a) Name of the applicant (user) : ~~Shri/Smt~~ JABA Housing Pvt. Ltd.
   (b) Son / Daughter of : NA
   (c) Address of the applicant : Dakshinkhanda, Andal, Paschim Bardhaman
   (d) Category of farmer (Please tick) (in case of irrigation well) : Small Farmer / Marginal Farmer / Others
   (e) Serial No. of application Form and date of submission : BP/A 0509, SL NO: 77, Dt.: 27/07/2022
   (f) Specimen signature of the user :
2. Location particulars---
   (a) District : Paschim Bardhaman
   (b) Block, Mouza, J. L. No., Plot No. : Andal Dakshinkhanda, J.L NO: 36, Plot: 5713
   (c) Municipality / Corporation Ward No. / Borough No., Holding No. : NA
3. Particulars of the proposed well and pumping device---
   (a) Type of the well : Tube well
   (b) Approx. depth of the well (m) : 60 m
   (c) Purpose of the well : Infrastructure
   (d) Assembly size (for tube well) : 100 mm. X 35 mm.
   (e) Approx. strainer length (for tube well) : 9 m.
   (f) Diameter (for dug well) : NA m.
   (g) Type of pump to be used : Submersible
   (h) H. P. of the pump : 3.5 HP
   (i) Operational device : Electric motor
   (j) Rate of withdrawal (m3 / hr.) : 30 m^3/hr
   (k) Maximum allowable running hours per day : 4 hrs.

This permit authorizes the owner applicant (user) to sink a well in the location specified at S1. (2) for extraction of ground water at a rate not exceeding that as shown at S1. (3) (j) and for running hours / day as shown at S1. (3) (K), and is valid subject to the observance of the conditions stated overleaf.

Place : Burdwan

Date : 20/03/23

OFFICE SEAL

20/3/23

Signature of the Issuing Authority and Designation.

Geologist, SWID &
Member Secretary, District Level
Ground Water Resources Development Authority
Paschim Bardhaman

Conditions :

(1) In case of any change of ownership of the proposed well, fresh registration has to be obtained.
(2) No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at S1. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this permit.
(3) In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.
(4) Any other condition imposed by the concerned Authority.

OFFICE SEAL

B.C.L./4/50,000/06

P-210 -

CONDITIONALITIES FOR PACKAGE DRINKING WATER PROJECTS AND INDUSTRIES/ INFRASTRUCTURES:

1. Roof Top Rain Water harvesting for Surface Storage.
2. Excavation of pond of size 150 ft. x 50ft. with 2 m. depth.
3. Chemical Quality Test Report from BIS approved Laboratory in each year to be submitted to the Geologist & Member Secretary, DLA.
4. The Certificate of Permit will be reviewed in every year from the date if issuance of Permit-based on local hydrogeological conditions that may prevail afterwards.
5. Arrangement of Water Meter at the outlet of Tube Well discharge to be monitored by Govt. Officials as assigned by DLA.
6. The enhanced rate if any in future (including the rates revised retrospectively) of fees/ charges/ taxes for drawls of ground water on annual basis, should be borne by applications for operating their tube wells in a continuous manner.

20/3/2023

20/3/23

Geologist, SWID &
Member Secretary, District Level
Ground Water Resources Development Authority
Paschim Bardhaman

ANNEXURE 12

WEST BENGAL INDUSTRIAL DEVELOPMENT CORPORATION LTD.

(A GOVERNMENT OF WEST BENGAL UNDERTAKING)
"PROTITI", 23, Abanindranath Thakur Sarani (Camac Street), Kolkata - 700 017
Phone : +91 33 2255 3700-705, Fax : +91 33 2255 3737,
E-mail : wbidc@wbidc.com www.wbidc.com

No. WBIDC/BPS/BAPL/01/1026 **Date: 17.11.2021**

To

M/s. IABA Housing Pvt. Ltd.
5, Gorky Terrace, 2nd Floor
Kolkata-700017

Sub: Issuance of Sanction of Residential Building Plan of the building.

Ref memo no: 1) UD & MA Notification No: 1181/UDMA-15011(24)/5/2021-LS/MA-SEC dated 02.09.2021.

2) Online System Generated Building Permit No: 2014300120210004 dated 02.11.2021

Building Particulars:

Mixed Use Development: Bengal Aerotropolis Project Limited Township.

PlotNo:L.R.PlotNo5650,5708,5710,5711,5712,5713,5714,5716,5718,5719,5720,5721,5722,5723,5724,5728,5729,5730,5731,5732,5733,5734,5735,5736,5737,5738,5739,5740,5741,5742,5743,5744,5745,5746,5747,5748,5749,5792,5793,5794,5820,5822 & 5718/7748, LR Khatian No: 3993.

Corporation/Municipality/Authority Name: GCITA (Golden City Industrial Township Authority).

Sub-Division: Durgapur.

District- Paschim Bardhaman.

Sir/Madam,

With reference to your application no: 0115792191000002 dated 31.08.2021 and other references indicated above, the building plan(s) as submitted of the building is sanctioned subject to the conditions stipulated by the West Bengal Industrial Development Corporationas here under-

1. The Building Permit is valid up to 01 st day of November 2026.
2. The Building Permit No. **2014300120210004** dated 2021-08-31 is valid for Occupancy of the use group Residential.
3. The Building/work for which is sanction permit issues should be completed within 5 years from the sanction date.
4. Before starting any construction the site must conform the plans sanctioned and all the conditions as proposed in the plan should be fulfilled. The validity of the written permission to execute the work is subject to above conditions.

WEST BENGAL INDUSTRIAL DEVELOPMENT CORPORATION LTD.
(A GOVERNMENT OF WEST BENGAL UNDERTAKING)
"PROTITI", 23, Abanindranath Thakur Sarani (Camac Street), Kolkata - 700 017
Phone : +91 33 2255 3700-705, Fax : +91 33 2255 3737,
E-mail : wbidc@wbidc.com www.wbidc.com

5. The construction should be undertaken as per sanctioned plan only and no deviation from the West Bengal Municipal Rules will be allowed. If the construction operation of the building in any part or in any manner is carried out in contravention to sanctioned drawings by West Bengal Industrial Development Corporation (WBIDC), then such construction will be stopped with immediate effect subsequent to revocation of construction permission and unauthorized construction or such part thereof shall be demolished without delay, and the cost of such demolition will be entirely recovered from the applicant in accordance with the provisions of the Public Demand Recovery Act 1913(Ben-Act-III of 1913).
6. Any deviation done against the West Bengal Municipal Rules is liable to be demolished and the supervising Architect/Technical Persons engaged on the job would run the risk on having his/her license cancelled.
7. The construction will be undertaken as per the sanctioned plan only. The boundary pillars which are permanent land marks, must not be removed, mutilated or disturbed under any circumstances.
8. Not less than seven days before commencement to undertake building operation, the applicant shall submit a written notice in the specified form mentioning the date on which he/she proposes to commence the building construction. The applicant shall communicate this office for to supervising the various stages of building construction operation to be undertaken progressively.
9. The vetted structural drawings and design calculations, soil test report submitted, if any, are not checked and kept for records only.
10. A set of drawing should be kept in site during construction. Display of the sanctioned drawing (preferably elevation) is mandatory during construction. Name and Contact No. of the Applicant, Technical persons (viz. Architect, Civil/Structural Engineer etc.) and Contractor/Site-in-charge should also be displayed properly in standard display board (Min. size of the display board should be 1000mm. X 600mm.).
11. The architectural drawing(s) received is /are approved.
12. This Building Permit is issued in accordance with delegated authority vide UD & MA Dept. notification no: **1181/UDMA-15011(24)/5/2021-LS/MA-SEC dated 02.09.2021 and for all online references the Building Permit No: 2014300120210004 dated 02.11.2021 to be given as input.**

Thanking You

Yours faithfully,

(P.Kamalakanth)

(Executive Director)

Enclo: 1. Copy of Notification issued by UD&MA Dept., Government of West Bengal.
2. Copy of Online system generated Building Permit Certificate.

ANNEXURE 13

Sanjib Guha
(BSC, BCE, F.I.E. Chartered Engineer)
Ph. No. 9830499360

Address :- Plot No. AA-182, Premises No. 02-0055, Street No. 55, Near Tank No. 1, New Town, Kolkata – 700 156

Ref. .....

Date. .....

CERTIFICATE OF STRUCTURAL REVIEWER

I/We do hereby certify that the Building Site proposed for construction at Plot Nos 5650 (part), 5708 (part), 5710 (part), 5711 (part), 5712 (part), 5713 (part), 5714 (part), 5716 (part), 5718 (part), 5719 (part), 5720 (full), 5721 (part), 5722 (part), 5723 (part), 5724 (full), 5728 (part), 5729 (part), 5730 (part), 5731 (full), 5732 (full), 5733 (full), 5734 (full), 5735 (full), 5736 (full), 5737 (full), 5738 (full), 5739 (full), 5740 (part), 5741 (full), 5742 (part), 5743 (part), 5744 (full), 5745 (full), 5746 (part), 5747 (part), 5748 (part), 5749 (part), 5792 (part), 5793 (part), 5794 (part), 5820 (part), 5822 (part) & 5718/7748 (part), LR KHATIAN NO 3993 JL NO 36, MOUZA DAKSHINKHANDA Street NA Ward No NA under the jurisdiction of Golden City Industrial Township Authority, has been visited by me /us and all the designs, Drawings, (as per Drawing List attached) , Soil Test Report and Load Test Results for foundation and super structure have been duly reviewed conforming to stipulations of all latest relevant IS Codes of Practice and National Building Code and it is found that everything is completely in order and the proposed foundation and superstructure are safe in all respect.

SANJIB GUHA
STRUCTURAL CONSULTANT
BSC, BCE, FIE, Chartered Engineer
Structural Reviewer (K.M.C)
Empaneled No.- ESR (I) 88/16
Structural Reviewer (NKDA)
Empaneled No.- STER/NKDA/15/00003

Signature of Structural Reviewer
Sanjib Guha
Plot No. AA-182, Premises No. 02-0055,
Street No. 55, New Ton Kolkata – 700156