

FORM 1

for

**PROPOSED EXPANSION OF "THE 42"
(A GREEN BUILDING PROJECT)**

at

**42B, Chowringhee Road, KMC area,
P.S. Shakespeare Sarani,
Kolkata – 700071**

**SUBMITTED TO
STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT
AUTHORITY, GOVT. OF WEST BENGAL**

Project Proponent

**M/s Chowringhee Residency Pvt. Ltd.
(previously known as Diamond Empire Estates Pvt. Ltd.)
42B Chowringhee Road, Kolkata – 700071**

FORM 1

(I) Basic Information

Sl. No.	Item	Details																								
1	Name of the project/s	Expansion of "The 42"																								
2	Sl. No. in the schedule	Sl. No. 8 (a)																								
3	Proposed capacity/area/length/ tonnage to be handled/ command area/lease area/number of wells to be drilled	<p>Project scenario as per EC granted by SEIAA, West Bengal, as well as the revised scenario after expansion are tabulated:</p> <table border="1"> <thead> <tr> <th>Project Details</th> <th>As per Environmental clearance already received (memo No. EN / 2087 / T-II-1 / 063 / 2013 dated 19.08.2014)</th> <th>Expansion Project</th> <th>Total Project Scenario</th> </tr> </thead> <tbody> <tr> <td>Block details</td> <td> <ul style="list-style-type: none"> •1 Block – G+58+2 refuge floors •Existing Building G+2 storied •1 Block of 2B+G+7 storied MLCP & Residents Activity Centre </td> <td> <ul style="list-style-type: none"> •Additional 4 floors above G+58 tower •2B+G+27 new Tower •2B+G+5 – MLCP & Residents Activity Centre on the 5th floor (modified) </td> <td> <ul style="list-style-type: none"> •1 Block – G+62 + 2 refuge floors •2B+G+27 Tower •1 Block of 2B+G+5 storied MLCP & Residents Activity Centre on the 5th floor </td> </tr> <tr> <td>Built Up Area</td> <td>63614.62 sqm</td> <td>17112.1198 sqm</td> <td>80726.7398 sqm</td> </tr> <tr> <td>Land Area</td> <td>14365.457 sqm (3.55 acres)</td> <td>14365.457 sqm (3.55 acres)</td> <td>14365.457 sqm (3.55 acres)</td> </tr> <tr> <td>Nos. of flats</td> <td>57</td> <td>43</td> <td>100</td> </tr> <tr> <td>Project Cost</td> <td>Rs. 635 Crores</td> <td>Rs. 65 Crores</td> <td>Rs. 700 Crores</td> </tr> </tbody> </table>	Project Details	As per Environmental clearance already received (memo No. EN / 2087 / T-II-1 / 063 / 2013 dated 19.08.2014)	Expansion Project	Total Project Scenario	Block details	<ul style="list-style-type: none"> •1 Block – G+58+2 refuge floors •Existing Building G+2 storied •1 Block of 2B+G+7 storied MLCP & Residents Activity Centre 	<ul style="list-style-type: none"> •Additional 4 floors above G+58 tower •2B+G+27 new Tower •2B+G+5 – MLCP & Residents Activity Centre on the 5th floor (modified) 	<ul style="list-style-type: none"> •1 Block – G+62 + 2 refuge floors •2B+G+27 Tower •1 Block of 2B+G+5 storied MLCP & Residents Activity Centre on the 5th floor 	Built Up Area	63614.62 sqm	17112.1198 sqm	80726.7398 sqm	Land Area	14365.457 sqm (3.55 acres)	14365.457 sqm (3.55 acres)	14365.457 sqm (3.55 acres)	Nos. of flats	57	43	100	Project Cost	Rs. 635 Crores	Rs. 65 Crores	Rs. 700 Crores
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4	New /Expansion/Modernization	Expansion Project																								
5	Existing Capacity/ Area etc.	Existing Project Configuration: <ul style="list-style-type: none"> • Main Building : G+58 which is under construction 																								
6	Category of project i.e. 'A' or 'B'	Category B																								
7	Does it attract the general condition? If yes, please specify.	No																								
8	Does it attract the specific condition? If yes, please specify.	No																								
9	Location	Within Ward No. 63 of The Kolkata																								

		Municipal Corporation, Kolkata, West Bengal
	Plot/Survey/Khasra No.	42B, Chowringhee Road under P.S. Shakespeare Sarani, Kolkata – 700071
	Village	NA
	Tehsil	NA
	District	Kolkata
	State	West Bengal
10	Nearest railway main station/airport along with distance in kms.	Sealdah Railway Station - 3.1 kms. Netaji Subhash Chandra Bose International Airport – 18 kms.
11	Nearest Town, City District Headquarters along with distance in kms.	The Project site is under Kolkata Municipal Corporation
12	Village Panchayats, Zilla Parishad, Municipal Corporation, Local body (complete postal addresses with telephone nos. to be given)	The project is under Kolkata Municipal Corporation area 5, S. N. Banerjee Road, Kolkata – 700013
13	Name of the applicant	M/s Chowringhee Residency Pvt. Ltd. (previously known as Diamond Empire Estates Pvt. Ltd.)
14	Registered Address	42B Chowringhee Road, Kolkata – 700071
15	Address for correspondence:	
	Name	Mr. Naresh Kumar Poddar
	Designation (Owner/Partner/CEO)	CA (Chartered Accountant)
	Address	68/2 Harish Mukherjee Road
	Pin Code	700 025
	E-mail	nkp@alcoverealty.in
	Telephone No.	(033) 3984-2100
	Fax No.	Mobile: 9831133793
16	Details of Alternative Sites examined, if any. Location of these sites should be shown on a topo sheet.	Village-District-State NA
17	Interlinked Projects	No
18	Whether separate application of interlinked project has been submitted?	No
19	If yes, data of submission	NA
20	If no, reason	NA
21	Whether the proposal involves approval/clearance under: if yes, details of the same and their status to be given. (a) The Forest (Conservation) Act, 1980? (b) The Wildlife (Protection) Act, 1972? (c) The CRZ Notification, 1991?	No
22	Whether there is any Government Order/Policy relevant/relation to the site?	KOLKATA MUNICIPAL CORPORATION Building Rules 2009 are applicable for construction at this site.
23	Forest land involved (hectares)	No

24	Whether there is any litigation pending against the project and /or land in which the project is propose to be set up? (a) Name of the Court (b) Case No. (c) Orders/directions of the Court, if any and its relevance with the proposed project.	No
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* *Capacity corresponding to sectoral activity (such as production capacity for manufacturing, mining lease area and production capacity for mineral production, area for mineral exploration, length for linear transport infrastructure, generation capacity for power generation etc.)*

(II) Activity

1. Construction, operation or decommissioning of the Project involving actions, which will cause physical changes in the locality (topography, land use, changes in water bodies, etc.)

Sl. No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
1.1	Permanent or temporary change in land use, land cover or topography including increase in intensity of land use (with respect to local land use plan)	No	This is an urban land within KMC area, therefore construction of this residential complex will not change the land use. Total land area of the project is: 14365.457 sqm (3.55 acres).
1.2	Clearance of existing land, vegetation and buildings?	Yes	Removal of some temporary sheds and a few structures shall take place. Demolition of the old dilapidated building shall take place for which permission has already been obtained. There are 58 numbers of trees within the project site. Out of these 17 trees shall be relocated and the rest 41 trees shall be retained.
1.3	Creation of new land uses?	No	The proposed site is earmarked for the development of Residential Complex. The proposed project will be developed as per the Development / Master Plan of the area and following the local building by-laws.
1.4	Pre-construction investigations e.g. bore houses, soil testing?	Yes	Soil testing has already been conducted for foundation design. The test results are found to be satisfactory.
1.5	Construction works?	Yes	In Expansion part: <ul style="list-style-type: none"> • 4 floors above the G+58 Block which shall become of configuration G+62 • 1 Block - 2B+G+27 • 1 Block of 2B+G+5 storied MLCP with Residents' Activity Centre on the 5th floor <p>This project is proposed to be a GREEN BUILDING registered under IGBC Green Homes Rating System – Registration No. GH131595</p>
1.6	Demolition works?	Yes	Demolition of the old dilapidated building for which necessary permission has already been obtained from the concerned authorities.
1.7	Temporary sites used for construction works or housing of construction workers?	Yes	Temporary residential arrangements with adequate number of decentralized latrines and urinals for the construction workers shall be provided. Total 450 nos. of construction workers (for expansion part) shall work during peak construction period.
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations	Yes	The civil works for the construction and development of the proposed project include earthwork excavation, foundation for buildings and structures, construction of internal roads, pavements, parking area, water storage tanks, storm water drain, water supply and sewer/drainage network, landscaping and security fencing, etc. The entire construction activities will be carried out under the guidance and supervision of experienced engineers and architects. Since all such construction activities will be confined within the project

Sl. No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
			premises, there will be no physical changes outside the project boundary.
1.9	Underground works including mining or tunneling?	Yes	The new upcoming Residential Tower as well as the MLCP building shall have basements.
1.10	Reclamation works?	No	-
1.11	Dredging?	No	-
1.12	Offshore structures?	No	-
1.13	Production and manufacturing processes?	No	It is a construction project and there will be construction of residential tower; hence no production / manufacturing process is involved.
1.14	Facilities for storage of goods or materials?	Yes	Construction material storage area will be earmarked within the project premises. Cement will be stored under cover in bales. Sand will be stacked neatly under tarpaulin cover. Bricks, stone chips and steel will be laid in open. Other miscellaneous items (like wood, wires, plumbing materials, paints, glass etc.) will be stored in covered areas.
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	<p><u>Construction Phase</u></p> <p><u>Solid Waste:</u></p> <p>Construction debris including bricks, gravel, rubbish, waste of plaster, concrete debris, metal tiles, etc. will be used within the project site for land filling activities, road work, etc. Other wastes like, pieces of steel, cement bags, waste paper and cardboard packing material will be sold off to recyclers.</p> <p>MSW generated by the construction workers would be 90 kg/day (450 persons @ 0.2 kg/day) (expansion part) which would be stored at a place within the site (VAT). From there it be collected, transported, treated and disposed off by KMC.</p> <p><u>Operation Phase</u></p> <p><u>Solid Waste:</u></p> <p>Solid waste during operational phase in general will be of domestic nature. Garbage will be segregated at source for biodegradable, in-organic recyclables and in-organic inert material during operational phase (170.88 kg/day) (expansion part). Total MSW will be stored at a place within the site. Organic component will be managed in house by installing mechanical composter, inorganic recyclables will be sold to vendors and inorganic inert material will be stored at a place within the site (VAT). From there it be collected, transported, treated and disposed off by KMC.</p> <p><u>Liquid Waste:</u></p>

Sl. No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
			<p>During construction phase wastewater originating from labour huts will be diverted to septic tank followed by soak pit by a temporary connection to KMC combined sewer drain.</p> <p>The wastewater will be collected through a well designed sewer network leading to STP. The proposed STP will be based on MBBR technology followed by tertiary treatment and UV radiation as disinfection. Treated water, meeting the relevant norms will be used in non-critical purposes within the complex. Surplus treated wastewater will be disposed of into the KMC sewer system.</p> <p>Concurrence letter from KMC for providing infrastructural support such as water supply, discharge of sewage and storm water and disposal of solid waste is already submitted by KMC Authority to SEIAA/SEAC/WBPCB for total KMC area.</p>
1.16	Facilities for long term housing of operational workers?	No	Attempts will be made to use local people in different operational activities of the project. As such, housing facilities for operational and maintenance workers have not been considered for the project. However, servant quarters shall be provided along with the residential flats.
1.17	New road, rail or sea traffic during construction or operation?	Yes	Internal roads will be constructed within the complex.
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc?	No	Not applicable.
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	Not applicable.
1.20	New or diverted transmission lines or pipelines?	No	Not applicable.
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of water courses or aquifers?	No	No impoundment, damming, culverting, realignment or other changes to the hydrology of surface water courses is envisaged.
1.22	Stream crossings?	No	Not applicable
1.23	Abstraction or transfers of water from ground or surface waters?	Yes	There will not be any abstraction of ground water as daily freshwater will be supplied by Kolkata Municipal Corporation (KMC) water supply system.

Sl. No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	No	The project proponent will adopt well-planned construction practices that will ensure minimum interruption of the natural drainage pattern of the area. Surface drainage will not be affected due to construction & operation of the project.
1.25	Transport of personnel or materials for construction, operation or decommissioning?	Yes	The vehicle to be used for transportation of materials will have a valid Pollution Under Control (PUC) certificate. Overhaul truck will be cleaned before leaving the site. Speed of the vehicle will be maintained at 10-15 km/hr. The overhaul trucks to be used for carrying the raw materials will be covered with tarpaulin to minimize the loss through spillage. Most of the personnel associated with the project will use public transportation system.
1.26	Long-term dismantling or decommissioning or restoration works?	No	Not applicable.
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	No	Not applicable.
1.28	Influx of people to an area in either temporarily or permanently?	Yes	About 450 construction workers will be working on the project during the peak construction stage (temporary phase). During the operational phase there will be about 240 permanent residents and temporary population of about 135 within the residential complex (expansion part).
1.29	Introduction of alien species?	No	Not applicable.
1.30	Loss of native species or genetic diversity?	No	As the project site is already developed, so there is no question of any loss of native or genetic diversity.
1.31	Any other actions?	Yes	<ul style="list-style-type: none"> • Ensuring that walking surfaces or boards at height are of sound construction and are provided with safety rails or belts. • Provide protective equipment; helmets etc. • Maintaining hoists and lifts, lifting machines, chains, ropes, and other lifting tackles in good condition. • Raw materials will not be dumped around the public roadside. • Adequate emergency first aid system will be provided at project site. • Fire extinguishers and buckets of sand to be provided in the fire-prone area and elsewhere.

2. Use of Natural resources for construction or operation of the Project (such as land, water, materials or energy, especially any resources which are non-renewable or in short supply):

Sl. No.	Information/checklist confirmation	Yes/ No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data		
2.1	Land especially undeveloped or agricultural land (ha)	No	The proposed project site is a flat land within the urban area. Total Land area is 14365.457 sqm (3.55 acres).		
2.2	Water (expected source & competing users) unit : KLD	Yes	Estimated Total Water Demand is 63.21 KLD. The Fresh Water Requirement is 38.65 KLD which will be sourced from KMC water supply system. A portion of the treated wastewater from STP (24.56 KLD) would be used for flushing, irrigation & car washing purposes. Rest of the treated wastewater (19.26 KLD) shall be discharged into KMC sewer line. (expansion part)		
2.3	Minerals (MT)	No	Not Applicable		
2.4	Construction material – stone, aggregates, sand, oil (expected source – MT)	Yes	Material	Quantity	Source
			Bricks	6337000 PCs.	Brick field
			Cement	10100 Ton	From reputed manufacturer
			Sand	1000000 CFT	Birbhum
			Stone chips	700000 CFT	Pakur
			Material will be supplied by local agencies. Fly ash bricks would be used as an ingredient for concrete and PSC/PPC would be used for plaster.		
2.5	Forests and timber (source – MT)	Yes	Use of timber shall be as less as possible. Timber will be supplied by bonafide local agencies mainly for door frames. Flush door shutters would be procured from reputed suppliers.		
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	Yes	Electricity will be supplied by CESC. The connected load will be about 3000 kVA (in expansion part). DG sets - 3 nos. 1000 kVA each will be installed for backup power but not to full extent. The emission from DG sets will be discharged through stack of height 6.3 meter for each 1000 kVA DG sets above the roof of the DG building. Fuel (low sulphur diesel) required for DG set will be about 480 litre/hr.		
2.7	Any other natural resources (use appropriate standard units)	No	Not applicable.		

3. Use, storage, transport, handling or production of substances or materials, which could be harmful to human health or the environment or raise concerns about actual or perceived risks to human health.

Sl. No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
3.1	Use of substances or materials, which are hazardous (as per MSIHC rules) to human health or the environment (flora, fauna, and water supplies)	Yes	No use and storage of hazardous chemicals (as per MSIHC rules) during operational phase is anticipated. However there may be some handling of spent oil, for backup DG sets. Suitable management practices shall be adopted for collection, storage and disposal of such spent oil. HSD (low-sulphur variety) shall be used for DG sets.
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	During construction & operational phase disinfectant will be used as and when necessary to control insects. No such changes will take place which would create breeding grounds for water borne pathogens or insects.
3.3	Affect the welfare of people e.g. by changing living conditions?	No	The proposed development would create direct & indirect employment, thereby helping in the economic growth & shall improve living conditions of the people.
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.,	No	-
3.5	Any other causes	No	-

4. Production of solid wastes during construction or operation or decommissioning (MT/month)

Sl. No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
4.1	Spoil, overburden or mine wastes	No	-
4.2	Municipal waste (domestic and or commercial wastes)	Yes	<p><u>Construction Phase</u></p> <p><u>Solid Waste:</u></p> <p>Construction debris including bricks, gravel, rubbish, waste of plaster, concrete debris, metal tiles, etc. will be used within the project site for land filling activities, road work, etc. Other wastes like, pieces of steel, cement bags, waste paper and cardboard packing material will be sold off to recyclers.</p> <p>MSW generated by the construction workers would be 90 kg/day (450 persons @ 0.2 kg/day) (expansion part) which would be stored at a place within the site (VAT). From there it be collected, transported, treated and disposed off by KMC.</p> <p><u>Operation Phase</u></p> <p><u>Solid Waste:</u></p> <p>Solid waste during operational phase in general will be of domestic nature. Garbage will be segregated at source for biodegradable, in-organic recyclables and in-organic inert material during operational phase (170.88 kg/day) (expansion part). Total MSW will be stored at a place within the site. Organic component will be managed in house by installing mechanical composter, inorganic recyclables will be sold to vendors and inorganic inert material will be stored at a place within the site (VAT). From there it be collected, transported, treated and disposed off by KMC.</p>
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	Yes	Mostly non-hazardous type of materials shall be handled, stored and used as construction material. The hazardous wastes will mainly be generated from centering oil, grease, water proofing compounds, paints, wood dust from treated wood, discarded lube oil, etc. Special care shall be taken to prevent spillage so that the hazardous solid wastes shall not be mixed with non-hazardous wastes. Hazardous solid wastes shall be stored in HDPE container as per Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2008 and its subsequent amendments and finally shall be sold to authorized vendor of MoEF.
4.4	Other industrial process wastes	No	Not applicable.
4.5	Surplus product	No	Not applicable.
4.6	Sewage sludge or other sludge from effluent treatment	Yes	During operational phase 44.94 kld of waste water shall be generated which shall be treated in an STP based on MBBR technology. 24.56 kld of the treated waste water shall be

			recycled for landscaping, car washing & toilet flushing and the rest 19.26 kld shall be discharged into KMC drain.
4.7	Construction or demolition wastes	Yes	670 MT of solid waste shall be generated during the construction phase. Construction waste will be used in the site and road preparation work.
4.8	Redundant machinery or equipment	No	Not Applicable
4.9	Contaminated soils or other materials	No	Hazardous wastes originating from centering oil, grease, water proofing compounds, paints, discarded lube oil etc. shall be stored in HDPE containers to prevent soil contamination.
4.10	Agricultural wastes	No	Not Applicable
4.11	Other solid wastes	Yes	Packing materials, hard board etc. will be segregated and sold to the vendors.

5. Release of pollutants or any hazardous, toxic or noxious substances to air (Kg/hr)

Sl. No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities / rates, wherever possible) with source of information data
5.1	Emissions from combustion of fossil fuels from stationary or mobile sources	Yes	<p>(i) Use of low sulphur content ultra pure diesel reduces SO₂, NO_x and PM emissions from the DG sets. Electricity will be supplied by CESC. DG sets - 3 nos. 1000 kVA each will be installed for backup power. The emission from DG sets will be discharged through stack of height 6.3 meter for each 1000 kVA DG sets above the roof of the DG building. Fuel (low sulphur diesel) required for DG set will be about 480 litre/hr. The emission from DG sets will be maintained as per the norms of CPCB given below</p> <p>PM < 0.3 G/kw-hr CO < 3.5 G/kw-hr HC < 1.3 G/kw-hr NO₂ < 9.2 G/kw-hr</p> <p>(ii) The vehicle to be used for transportation of materials will have a valid Pollution Under Control (PUC) certificate.</p>
5.2	Emissions from production processes	No	Not applicable
5.3	Emissions from materials handling including storage or transport	No	<p>Fugitive dust will be generated from the material handling areas. Water sprinkling arrangement will be made to minimize the dust generation.</p> <p>All vehicles to be used for transportation of materials will have valid Pollution under Control (PUC) certificate.</p>
5.4	Emissions from construction activities including plant and equipment	Yes	Nominal quantities of fugitive dust will be emitted during excavation, back filling & hauling operations as well as transportation during construction period.
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	Yes	<p>During construction phase, sewage after treatment in Septic Tank will be discharged into KMC sewer line.</p> <p>Dust is likely to be generated during excavation, back-filling and hauling operations along with transportation activities during the construction phase. Water sprinkling system and tarpaulin cover will be provided over stored raw material to reduce the dust emission.</p>
5.6	Emissions from incineration of waste	No	Not applicable.
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	Open burning of biomass/ other material will be avoided.
5.8	Emissions from any other sources	No	Not applicable.

6. Generation of Noise and Vibration, and Emissions of Light and Heat:

Sl. No.	Information/Checklist confirmation	Yes /No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data																										
6.1	From operation of equipment e.g. engines, ventilation plant, crushers	No	(i) Possible source is from DG sets. DG sets will have acoustic enclosure as per norms. (ii) From construction machines. But the vibration and noise will be confined within the premises.																										
6.2	From industrial or similar processes	No																											
6.3	From construction or demolition	Yes	<p>Equipment used for demolition and construction work generates noise and the anticipated noise levels are tabulated below.</p> <table border="1"> <thead> <tr> <th>Equipment</th> <th>Typical Noise levels DB(A) 50 ft from source</th> </tr> </thead> <tbody> <tr> <td>Air Compressor</td> <td>81</td> </tr> <tr> <td>Compactor</td> <td>82</td> </tr> <tr> <td>Concrete Mixer</td> <td>85</td> </tr> <tr> <td>Concrete pump</td> <td>82</td> </tr> <tr> <td>Concrete vibrator</td> <td>76</td> </tr> <tr> <td>Jack Hammer</td> <td>88</td> </tr> <tr> <td>Paver</td> <td>89</td> </tr> <tr> <td>Pile driver</td> <td>96-101</td> </tr> <tr> <td>Pump</td> <td>76</td> </tr> <tr> <td>Shovel</td> <td>82</td> </tr> <tr> <td>Mobile Crane</td> <td>83</td> </tr> <tr> <td>Roller</td> <td>74</td> </tr> </tbody> </table> <p>Source : Transit Noise and Vibration Impact Assessment, Final report, 1995 by US Department of Transportation</p> <p>But this will not cause any disturbance to the neighboring areas.</p>	Equipment	Typical Noise levels DB(A) 50 ft from source	Air Compressor	81	Compactor	82	Concrete Mixer	85	Concrete pump	82	Concrete vibrator	76	Jack Hammer	88	Paver	89	Pile driver	96-101	Pump	76	Shovel	82	Mobile Crane	83	Roller	74
Equipment	Typical Noise levels DB(A) 50 ft from source																												
Air Compressor	81																												
Compactor	82																												
Concrete Mixer	85																												
Concrete pump	82																												
Concrete vibrator	76																												
Jack Hammer	88																												
Paver	89																												
Pile driver	96-101																												
Pump	76																												
Shovel	82																												
Mobile Crane	83																												
Roller	74																												
6.4	From blasting or piling	Yes	There shall be no blasting activity. During piling operation, latest pile installation techniques shall be adopted to have negligible effect due to vibration, etc.																										
6.5	From construction or operational traffic	Yes	<p>During construction phase it will be ensured that vehicles must have valid Pollution Under Control (PUC) certificate for transportation of construction materials. The vehicles carrying construction materials will ply during non - peak hours.</p> <p>During operational phase the vehicles to be used by the residents will have valid PUC certificate.</p> <p>Traffic movement inside the premises will be controlled by the security personnel and the average speed will be maintained at 10-15 km/hr.</p>																										
6.6	From lighting or cooling systems	No																											
6.7	From any other sources	No																											

7. Risks of contamination of land or water from releases of pollutants into the ground or into sewers, surface waters, groundwater, coastal waters or the sea:

Sl. No.	Information/Checklist confirmation	Yes /No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data
7.1	From handling, storage, use or spillage of hazardous materials	Yes	Non-hazardous type of materials shall mostly be handled, stored and used as construction material. The hazardous wastes shall be generated from centering oil, grease, water proofing compounds, paints, wood dust from treated wood, discarded lube oil, etc. Special care shall be taken to prevent spillage so that the hazardous solid wastes shall not be mixed with non-hazardous wastes. Hazardous solid wastes shall be stored in HDPE container as per Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2008 and its subsequent amendments and finally sold to authorized vendor of MoEF.
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	No	The wastewater around 19.26 kld (expansion part) will be collected through a well designed sewer network for final discharge to KMC combined sewer line in front of the project site. So, there is no risk of contamination of water and land.
7.3	By deposition of pollutants emitted to air into the land or into water	No	Dust will be generated during construction phase from earthwork excavation, movement of vehicles and by wind erosion of areas cleared of vegetation. Appropriate fugitive dust control measures, including watering, water sprinkling of exposed areas and dust covers for trucks, shall be employed to minimize any such impacts. Thus, no significant air quality impacts from fugitive dust emissions are anticipated during construction and operation phase of the project.
7.4	From any other sources	No	Not applicable
7.5	Is there a risk of long term build up of pollutants in the environment from these sources?	No	Not applicable

8. Risk of accidents during construction or operation of the Project, which could affect human health or the environment

Sl. No.	Information/Checklist confirmation	Yes /No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
8.1	From explosions, spillages, fires etc from storage, handling, use or production of hazardous substances	No	<p>This is a construction project and does not involve use of hazardous substances as construction materials. Hence, chances of explosions, spillages, fire etc. are minimal.</p> <p>During construction all the labourers shall be provided with suitable personal protective equipment (PPE) as required under the health & safety norms. Training and awareness about the safety norms shall be provided to all supervisors and labourers involved in the construction activities. An agreement shall be signed with the contractor, which shall clearly deal with the safety aspects during construction.</p> <p>No major hazardous substances shall be stored within the project site. No industrial or process activity is involved in this project hence, chances of chemical hazards and accidents are minimal. However, suitable firefighting measures shall be provided.</p>
8.2	From any other causes	No	
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, cloudburst etc.)?	No	The area under study falls in Zone-III according to the Indian Standard Seismic Zoning Map. Suitable seismic coefficients in horizontal and vertical directions respectively, shall be adopted while designing the structures. There are no chances of floods and landslide.

9. Factors which should be considered (such as consequential development) which could lead to environmental effects or the potential for cumulative impacts with other existing or planned activities in the locality

Sl. No.	Information/Checklist confirmation	Yes /No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
9.1	<p>Lead to development of supporting facilities, ancillary development or development stimulated by the project which could have impact on the environment e.g.:</p> <ul style="list-style-type: none"> • Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.) • housing development • extractive industries • supply industries • other 	Yes	<p>It is a well-developed urban area of KMC 200' frontage on 110' wide Jawaharlal Nehru Road. The site is also having 230' frontage on 40' wide Little Russel Street and 140' frontage on 43' wide Middleton Street. It is a prime commercial hub of Kolkata having landmarks like Tata Centre, Jeevandeep, etc. close to the project. During operational phase the gross water demand shall be about 63.21 KLD, including domestic, landscaping, car washing, etc. About 19.26 KLD of treated waste water from STP will be rendered surplus after usage for flushing, landscaping and car washing purposes which will be directly discharged into the KMC sewer line.</p> <p>This is a planned housing complex and is proposed to be a Green Building under Green Home Rating System (registration No. GH131595) which will provide better living condition and help local area development.</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p>
9.2	Lead to after-use of the site, which could have an impact on the environment	No	
9.3	Set a precedent for later developments	No	
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	No	Other housing complex coming up in the vicinity will also help local area development.

(III) Environmental Sensitivity

Sl. No.	Areas	Name/ Identity	Aerial distance (within 15 km.) Proposed project location boundary
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	No	Not applicable
2	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	East Kolkata Wetlands	7.0 km
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	Botanical Garden Alipore Zoo	8 km 4 km
4	Inland, coastal, marine or underground waters	Hooghly River	4 km
5	State, National boundaries	No	Not applicable
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	Chowringhee Road Park Street Shakespeare Sarani	In front of the premises 1/2 km 1/4 km
7	Defense installations	Fort Williams	2 km
8	Densely populated or built-up area	Chowringhee	1/2 km
9	Areas occupied by sensitive man-made land uses (<i>hospitals, schools, places of worship, community facilities</i>)	PG Hospital Apeejay School St. Paul' Cathedral Maidan Metro Howrah Stn Sealdah Stn Victoria Memorial Indian Museum	1.5 km 1.5 km 1/2 km 1/4 km 3.8 km 3.1 km 1/2 km 1 km
10	Areas containing important, high quality or scarce resources (<i>ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals</i>)	No	Not applicable
11	Areas already subjected to pollution or environmental damage. (<i>those where existing legal environmental standards are exceeded</i>)	No	Not applicable

12	Areas susceptible to natural hazard which could cause the project to present environmental problems (<i>earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions</i>)	No	Not applicable
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(IV). Proposed Terms of Reference for EIA studies


As the built-up area of this project is less than 1,50,000 sqm. separate EIA study is not required.

I hereby give the undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at our risk and cost.

Date: 22.08.18

Place: Kolkata




Mr. Naresh Kumar Poddar
(Chartered Accountant)
68/2 Harish Mukherjee Road
Kolkata - 700025

Note :

1. The projects involving clearance under Coastal Regulation Zone Notification, 1991 shall submit with the application a C.R.Z map duly demarcated by one of the authorized agencies, showing the project activities, w.r.t. C.R.Z (at the stage of TOR) and the recommendations of the State Coastal Zone Management Authority (at the stage of EC). Simultaneous action shall also be taken to obtain the requisite clearance under the provisions of the C.R.Z Notification, 1991 for the activities to be located in the CRZ.
2. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of wild animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden thereon (at the stage of EC).
3. All correspondence with the Ministry of Environment & Forest including submission of application for TOR/Environmental Clearance, subsequent clarification, as may be required from time to time, participation in the EAC Meeting on behalf of the project proponent shall be made by the authorized signatory only. The authorized signatory should also submit a document in support of his claim of being an authorized signatory for the specific project.