

**HOUSING COMPLEX “MPL HOUSING” AT 147, R.N.GUHA ROAD,  
MOUJA-DIGLA, JL NO.- 18, WARD NO. 09, UNDER SOUTH DUMDUM  
MUNICIPALITY, PS- DUMDUM, KOLKATA- 700028, DISTRICT- 24 PGS (N),  
WEST BENGAL**

## **FORM I**

**(I) Basic Information**

Sl. No.	Item	Details
1	Name of the project	<b>HOUSING COMPLEX</b>
2	Sl. No. in the schedule	<b>Sl. No. 8 (a)</b>
3	Proposed capacity/area/length/ tonnage to be handled/ command area/lease area/number of wells to be drilled	Building and Construction projects of Total Built up Area 48169.10 sqm on a land of 12787.81 sqm (as per deed), 12583.44 sqm (as per measurement).
4	New /Expansion/Modernization	Expansion cum Modification Project. Comparative Statement is given in <b>Annexure-3.</b>
5	Existing Capacity/ Area etc.	NA
6	Category of project i.e. 'A' or 'B'	<b>Category B</b> ( $\geq 20000$ sq.m and $< 1,50,000$ sqm. of built-up area)
7	Dose it attract the general condition? If yes, please specify.	No
8	Dose it attract the specific condition? If yes, please specify.	No
9	Location	147, R.N.Guha Rd.
	Plot/Survey/Khasra No.	C.S.Dag No. – 1509, 1514, 1515, 1516, 1517, 1518, 1519, 1520, 1516/1615, 1521, 1522 and 1523, C.S. Khaitan No. – 481, 513, 173/1, 173, J.L.No. – 18, Mouza – Digla, Ward No. – 09, South Dum Dum Municipality, P.S. – Dum Dum, Kolkata – 700028.
	Village	
	Tehsil	-
	District	24 Parganas (N)
	State	West Bengal
10	Nearest railway main station/airport along with distance in kms.	Airport – Netaji Subhas Chandra Bose International Airport – 3.0 Km; Sealdah Railway Station: 8.0 km
11	Nearest Town, City District Headquarters along with distance in kms.	KMC
12	Village Panchayats, Zilla Parishad, Municipal Corporation, Local body (complete postal addresses with telephone nos. to be given)	South Dum Dum Municipality - Nagerbazar

**HOUSING COMPLEX “MPL HOUSING” AT 147, R.N.GUHA ROAD,  
MOUJA-DIGLA, JL NO.- 18, WARD NO. 09, UNDER SOUTH DUMDUM  
MUNICIPLITY, PS- DUMDUM, KOLKATA- 700028, DISTRICT- 24 PGS (N),  
WEST BENGAL**

13	Name of the applicant	Merlin Projects Limited.
14	Registered Address	Merlin Oxford, 2nd Floor 22, Prince Anwar Shah Road Kolkata Kolkata, WB 700033
15	Address for correspondence:	
	Name	Mr. Sushil Mohta
	Designation (Owner/Partner/CEO)	Director, Merlin Projects Limited & Constituted Attorney of ABP Pvt. Ltd.
	Address	“Merlin Oxford”, 2 <sup>nd</sup> Floor, 22, P.A.Shah Road, Kolkata 700 033
	Pin Code	700 033
	E-mail	
	Telephone No.	(033) 4015 4545
	Fax No.	(033) 4015 4500
16	Details of Alternative Sites examined, if any. Location of these sites should be shown on a topo sheet.	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?	No
23	Forest land involved (hectares)	NA
24	Whether there is any litigation pending against the project and/or land in which the project is propose to be set up?	Not Applicable

**(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	No	The project area is dedicated for housing complex. Total land area is

**HOUSING COMPLEX “MPL HOUSING” AT 147, R.N.GUHA ROAD,  
MOUJA-DIGLA, JL NO.- 18, WARD NO. 09, UNDER SOUTH DUMDUM  
MUNICIPALITY, PS- DUMDUM, KOLKATA- 700028, DISTRICT- 24 PGS (N),  
WEST BENGAL**

	topography including increase in intensity of land use (with respect to local land use plan)		12787.81 sqm - as per deed 12583.44 sqm - as per measurement. Land related document is given in <b>Annexure - 1</b> .
1.2	Clearance of existing land, vegetation and buildings?	Yes	There are 142 nos. of trees existing in the project area. Out of these 54 nos. have been felled and 88 nos. have been retained. The trees have been felled in accordance with the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Rules 2007. Few existing structures have also been demolished.
1.3	Creation of new land uses?	No	-
1.4	Pre-construction investigations e.g. bore houses, soil testing?	Yes	Soil testing has been already done.
1.5	Construction works?	Yes	Total 4 nos. of Blocks with a common basement below 4 Blocks. <b>Tower 1,2,3,4 - 2B+G+13.</b>
1.6	Demolition works?	Yes	There were a few existing structures which have been demolished.
1.7	Temporary sites used for construction works or housing of construction workers?	Yes	Temporary labour hut for the workers have been constructed within the complex with all sanitary facilities and drinking water after getting all statutory approvals. Total 390 Nos. of construction workers will work during peak construction period.
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations	Yes	The land is flat land. Cutting and filling operation required only for foundation work. Total 4 nos. of Blocks of Tower 1,2,3,4 – 2B+G+13.
1.9	Underground works including mining or tunneling?	Yes	A common basement below 4 no. of Blocks. Under ground water Reservoir for Domestic Use & Under Ground Reservoir for Fire Fighting and rainwater harvesting and STP will be made.
1.10	Reclamation works?	No	
1.11	Dredging?	No	
1.12	Offshore structures?	No	
1.13	Production and manufacturing processes?	No	
1.14	Facilities for storage of goods or materials?	Yes	Cement, reinforcement (steel) etc. will be stored in covered area, sand and stone chips will be stored in open places within the project area.

**HOUSING COMPLEX “MPL HOUSING” AT 147, R.N.GUHA ROAD,  
MOUJA-DIGLA, JL NO.- 18, WARD NO. 09, UNDER SOUTH DUMDUM  
MUNICIPALITY, PS- DUMDUM, KOLKATA- 700028, DISTRICT- 24 PGS (N),  
WEST BENGAL**

1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	<p>(i) Garbage will be treated at source for biodegradable, recyclables and inert material during construction (78 kg/day) (390 persons @ 0.2 kg/day) and operational phases (1090 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 South Dumdum Municipality as per the guideline given by SEAC/SEIAA/WBPCB for management of Municipal solid waste for municipality areas.</p> <p>Concurrence letter in this regard from South Dumdum Municipality is given in <b>Annexure – 2.</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Person</th> <th>Rate</th> <th>Total</th> </tr> <tr> <th></th> <th></th> <th>kg/day</th> <th>kg/day</th> </tr> </thead> <tbody> <tr> <td>Residential</td> <td>1898</td> <td>0.45</td> <td>854.10</td> </tr> <tr> <td>Commercial</td> <td>13</td> <td>0.15</td> <td>1.95</td> </tr> <tr> <td>Assembly Type Area</td> <td>248</td> <td>0.15</td> <td>37.20</td> </tr> <tr> <td>Floating Population</td> <td>555</td> <td>0.10</td> <td>55.50</td> </tr> <tr> <td>STREET SWEEPING</td> <td>2714</td> <td>0.05</td> <td>135.70</td> </tr> <tr> <td></td> <td></td> <td><b>GRAND TOTAL</b></td> <td><b>1084.5</b></td> </tr> <tr> <td></td> <td></td> <td></td> <td><b>1090</b></td> </tr> </tbody> </table> <p>ii) The total wastewater generated from this project during operational phase is around 236 KLD.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Total popu.</th> <th>Lpcd</th> <th>Total litre/day</th> <th>kLD</th> </tr> </thead> <tbody> <tr> <td>Residential</td> <td>1898</td> <td>135</td> <td>256230</td> <td>257</td> </tr> <tr> <td>Commercial Area</td> <td>13</td> <td>45</td> <td>585</td> <td>1</td> </tr> <tr> <td>Assembly Type Area</td> <td>248</td> <td>45</td> <td>11160</td> <td>12</td> </tr> </tbody> </table>		Person	Rate	Total			kg/day	kg/day	Residential	1898	0.45	854.10	Commercial	13	0.15	1.95	Assembly Type Area	248	0.15	37.20	Floating Population	555	0.10	55.50	STREET SWEEPING	2714	0.05	135.70			<b>GRAND TOTAL</b>	<b>1084.5</b>				<b>1090</b>		Total popu.	Lpcd	Total litre/day	kLD	Residential	1898	135	256230	257	Commercial Area	13	45	585	1	Assembly Type Area	248	45	11160	12
	Person	Rate	Total																																																								
		kg/day	kg/day																																																								
Residential	1898	0.45	854.10																																																								
Commercial	13	0.15	1.95																																																								
Assembly Type Area	248	0.15	37.20																																																								
Floating Population	555	0.10	55.50																																																								
STREET SWEEPING	2714	0.05	135.70																																																								
		<b>GRAND TOTAL</b>	<b>1084.5</b>																																																								
			<b>1090</b>																																																								
	Total popu.	Lpcd	Total litre/day	kLD																																																							
Residential	1898	135	256230	257																																																							
Commercial Area	13	45	585	1																																																							
Assembly Type Area	248	45	11160	12																																																							

**HOUSING COMPLEX “MPL HOUSING” AT 147, R.N.GUHA ROAD,  
MOUJA-DIGLA, JL NO.- 18, WARD NO. 09, UNDER SOUTH DUMDUM  
MUNICIPALITY, PS- DUMDUM, KOLKATA- 700028, DISTRICT- 24 PGS (N),  
WEST BENGAL**

			Floating Population	555	15	8325	9
			<b>Sub Total 1</b>				<b>279</b>
			Landscaping				25
			Car washing				15
			Losses				3
			Swimming Pool				10
			<b>Sub Total 2</b>				<b>53</b>
			<b>TOTAL WATER REQUIREMENT</b>				<b>332</b>
			<b>Total Wastewater Generation</b>				<b>236</b>
			<b>Total Wastewater discharge</b>				<b>110</b>
			<b>Total Recycling</b>				<b>126</b>
			Landscaping				25
			Flushing				86
			Car washing				15
			<b>Fresh Water Requirement</b>				<b>206</b>
			<b>OCCUPANCY RATE AS PER NBC 2016, PART 9, PAGE 11, SECTION 1,CLAUSE 4.1</b>				
			<p><b>Source:</b> South Dumdum Municipality water supply.</p> <p>Wastewater generation from the proposed project will be 236 kld. The wastewater will be collected through a well designed sewer network leading to STP, based on FAB Technology followed by tertiary system and reused as much as possible.</p> <p><b>RECYCLED: 126kld</b> (Flushing : 86, Landscaping : 25 kld &amp; Car Washing : 15 kld).</p> <p>The excess treated wastewater that will be discharged to Municipality drain in front of the project site – 110 kld.</p> <p>(iii) During construction phase wastewater originating from labour hut (about 22 kld) will be diverted to septic tank followed by soak pit by a temporary connection to Municipality drain.</p> <p>Concurrence letter from Municipality for discharging storm water and treated sewage along with SWM is given in <b>Annexure – 2</b>.</p>				

**HOUSING COMPLEX “MPL HOUSING” AT 147, R.N.GUHA ROAD,  
MOUJA-DIGLA, JL NO.- 18, WARD NO. 09, UNDER SOUTH DUMDUM  
MUNICIPALITY, PS- DUMDUM, KOLKATA- 700028, DISTRICT- 24 PGS (N),  
WEST BENGAL**

1.16	Facilities for long term housing of operational workers?	No	Long term housing for operational workers will not be required. Only few security personnel will stay.
1.17	New road, rail or sea traffic during construction or operation?	No	
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc?	No	
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	
1.20	New or diverted transmission lines or pipelines?	No	
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No	
1.22	Stream crossings?	No	
1.23	Abstraction or transfers of water from ground or surface waters?	No	Fresh water required during operational phases will be 206 KLD (Total water demand 332 KLD). Water required for the proposed project will be supplied by SDDM. Concurrence letters already received from SDDM and already given.
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	No	
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	
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	No	

**HOUSING COMPLEX “MPL HOUSING” AT 147, R.N.GUHA ROAD,  
MOUJA-DIGLA, JL NO.- 18, WARD NO. 09, UNDER SOUTH DUMDUM  
MUNICIPALITY, PS- DUMDUM, KOLKATA- 700028, DISTRICT- 24 PGS (N),  
WEST BENGAL**

1.28	Influx of people to an area in either temporarily or permanently?	Yes				<b>Total Popu. (round fig.)</b>
				<b>total no. of flats/ bua</b>	<b>rate</b>	
			2 BHK Flats	26	5	130
			3 BHK Flats	234	6	1404
			4 BHK Flats	52	7	364
			<b>Residential (Fixed)</b>			<b>1898</b>
			<b>Commercial Area (Fixed)</b>			<b>13</b>
			<b>Assembly Type Area</b>			<b>248</b>
			<b>Floating population</b>			<b>555</b>
		<b>total</b>	<b>2466</b>			
Population of around 390 persons will be engaged during construction phase and 2466 persons (permanent – 1898, temporary- 568) during operation phase.						
1.29	Introduction of alien species?	No				
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"> <li>• Raw materials will not be dumped around the public roadside.</li> <li>• Maintaining hoists and lifts, lifting machines, chains, ropes, and other lifting tackles in good condition.</li> <li>• Ensuring that walking surfaces or boards at height are of sound construction and are provided with safety rails or belts.</li> <li>• Provide protective equipment; helmets etc.</li> <li>• Fire extinguishers and buckets of sand to be provided in the fire-prone area and elsewhere.</li> <li>• Adequate emergency first aid system will be provided at project site.</li> </ul>			

**HOUSING COMPLEX “MPL HOUSING” AT 147, R.N.GUHA ROAD,  
MOUJA-DIGLA, JL NO.- 18, WARD NO. 09, UNDER SOUTH DUMDUM  
MUNICIPALITY, PS- DUMDUM, KOLKATA- 700028, DISTRICT- 24 PGS (N),  
WEST BENGAL**

**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 project area is dedicated for residential and commercial development. Total land area is 12787.81 sqm - as per deed 12583.44 sqm - as per measurement. Land related document is given in <b>Annexure – 1.</b>																																																																																															
2.2	Water (expected source & competing users) unit: KLD	Yes	<table border="1"> <thead> <tr> <th></th> <th>Total popu.</th> <th>Lpcd</th> <th>Total litre/day</th> <th>kLD</th> </tr> </thead> <tbody> <tr> <td>Residential</td> <td>1898</td> <td>135</td> <td>256230</td> <td>257</td> </tr> <tr> <td>Commercial Area</td> <td>13</td> <td>45</td> <td>585</td> <td>1</td> </tr> <tr> <td>Assembly Type Area</td> <td>248</td> <td>45</td> <td>11160</td> <td>12</td> </tr> <tr> <td>Floating Population</td> <td>555</td> <td>15</td> <td>8325</td> <td>9</td> </tr> <tr> <td colspan="4" style="text-align: center;"><b>Sub Total 1</b></td> <td><b>279</b></td> </tr> <tr> <td colspan="4">Landscaping</td> <td>25</td> </tr> <tr> <td colspan="4">Car washing</td> <td>15</td> </tr> <tr> <td colspan="4">Losses</td> <td>3</td> </tr> <tr> <td colspan="4">Swimming Pool</td> <td>10</td> </tr> <tr> <td colspan="4" style="text-align: center;"><b>Sub Total 2</b></td> <td><b>53</b></td> </tr> <tr> <td colspan="4"><b>TOTAL WATER REQUIREMENT</b></td> <td><b>332</b></td> </tr> <tr> <td colspan="4"><b>Total Wastewater Generation</b></td> <td><b>236</b></td> </tr> <tr> <td colspan="4"><b>Total Wastewater discharge</b></td> <td><b>110</b></td> </tr> <tr> <td colspan="4"><b>Total Recycling</b></td> <td><b>126</b></td> </tr> <tr> <td colspan="4">Landscaping</td> <td>25</td> </tr> <tr> <td colspan="4">Flushing</td> <td>86</td> </tr> <tr> <td colspan="4">Car washing</td> <td>15</td> </tr> <tr> <td colspan="4"><b>Fresh Water Requirement</b></td> <td><b>206</b></td> </tr> </tbody> </table> <p><b>OCCUPANCY RATE AS PER NBC 2016, PART 9, PAGE 11, SECTION 1,CLAUSE 4.1</b></p> <p>Source: South Dum Dum Municipality.</p> <p>Wastewater generation from the proposed project will be 236 kld. The wastewater will</p>		Total popu.	Lpcd	Total litre/day	kLD	Residential	1898	135	256230	257	Commercial Area	13	45	585	1	Assembly Type Area	248	45	11160	12	Floating Population	555	15	8325	9	<b>Sub Total 1</b>				<b>279</b>	Landscaping				25	Car washing				15	Losses				3	Swimming Pool				10	<b>Sub Total 2</b>				<b>53</b>	<b>TOTAL WATER REQUIREMENT</b>				<b>332</b>	<b>Total Wastewater Generation</b>				<b>236</b>	<b>Total Wastewater discharge</b>				<b>110</b>	<b>Total Recycling</b>				<b>126</b>	Landscaping				25	Flushing				86	Car washing				15	<b>Fresh Water Requirement</b>				<b>206</b>
	Total popu.	Lpcd	Total litre/day	kLD																																																																																														
Residential	1898	135	256230	257																																																																																														
Commercial Area	13	45	585	1																																																																																														
Assembly Type Area	248	45	11160	12																																																																																														
Floating Population	555	15	8325	9																																																																																														
<b>Sub Total 1</b>				<b>279</b>																																																																																														
Landscaping				25																																																																																														
Car washing				15																																																																																														
Losses				3																																																																																														
Swimming Pool				10																																																																																														
<b>Sub Total 2</b>				<b>53</b>																																																																																														
<b>TOTAL WATER REQUIREMENT</b>				<b>332</b>																																																																																														
<b>Total Wastewater Generation</b>				<b>236</b>																																																																																														
<b>Total Wastewater discharge</b>				<b>110</b>																																																																																														
<b>Total Recycling</b>				<b>126</b>																																																																																														
Landscaping				25																																																																																														
Flushing				86																																																																																														
Car washing				15																																																																																														
<b>Fresh Water Requirement</b>				<b>206</b>																																																																																														

**HOUSING COMPLEX “MPL HOUSING” AT 147, R.N.GUHA ROAD,  
MOUJA-DIGLA, JL NO.- 18, WARD NO. 09, UNDER SOUTH DUMDUM  
MUNICIPALITY, PS- DUMDUM, KOLKATA- 700028, DISTRICT- 24 PGS (N),  
WEST BENGAL**

			<p>be collected through a well designed sewer network leading to STP, based on FAB Technology followed by tertiary system and reused as much as possible.</p> <p><b>RECYCLED: 126 KLD</b></p> <p>(Flushing : 86 KLD, Landscaping : 25 KLD &amp; Car Washing : 15 KLD). The excess treated wastewater that will be discharged to Municipality drain in front of the project site – 110 kld. During construction phase wastewater originating from labour hut (about 22 kld) will be diverted to septic tank followed by soak pit by a temporary connection to Municipality drain. Concurrence letter from south Dum Dum Municipality for discharging storm water and treated sewage along with SWM is given in <b>Annexure – 2.</b></p>		
2.3	Minerals (MT)	No	Not Applicable		
2.4	Construction material stone, aggregates, sand/soil (expected source – MT)	Yes	Material	Quantity	Source
			Brick	3698245 pcs	Local Brick field
			Cement	6870 MT	Reputed manufacturer
			Stone Chips	522490 cft	Pakur
			Sand	858375 cft	Birbhum
2.5	Forests and timber (source – MT)	Yes	Use of timber shall be as less as much as possible. However, the required quantity will be procured only from the vendor authorized by the competent authority.		
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	Yes	Electricity will be supplied by CESC (Connected load of about 3400 KVA). DG sets (2 nos. 500 KVA) will be installed for back up power. The emission from DG sets will be discharged through stack 4.5 mt above the roof of the buildings. Fuel (diesel) required for DG sets will be around 544		

**HOUSING COMPLEX “MPL HOUSING” AT 147, R.N.GUHA ROAD,  
MOUJA-DIGLA, JL NO.- 18, WARD NO. 09, UNDER SOUTH DUMDUM  
MUNICIPALITY, PS- DUMDUM, KOLKATA- 700028, DISTRICT- 24 PGS (N),  
WEST BENGAL**

			litre/hr.
2.7	Any other natural resources (use appropriate standard units)	No	

**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.**

<b>Sl. No.</b>	<b>Information/Checklist confirmation</b>	<b>Yes / No</b>	<b>Details thereof (with approximate quantities/ rates, wherever possible) with source of information data</b>
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	The construction materials to be handled, stored and used are mostly of non hazardous type. The hazardous waste are mainly of centering oil, grease, water proofing compounds, paints, wood dust from treated wood, discarded lube oil etc.. Special care will be taken to prevent spillage or mixing of the hazardous waste with non-hazardous waste. Discarded lube oil will be stored in HDPE container as per Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2016 and its subsequent amendments and finally sold to the authorized vendor of MoEF.
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	During construction phase disinfectant will be used as and when necessary to control insects. No such changes will take place which would create breeding ground for water borne pathogens or insects.
3.3	Affect the welfare of people e.g. by changing living conditions?	Yes	Some local people will get job during the construction phase and for regular operation and maintenance of the proposed project. The project will generate job opportunities in both direct and indirect sector. The proposed project will have a long-term positive impact on the socio-economic environment of the area.
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	-

**HOUSING COMPLEX “MPL HOUSING” AT 147, R.N.GUHA ROAD,  
MOUJA-DIGLA, JL NO.- 18, WARD NO. 09, UNDER SOUTH DUMDUM  
MUNICIPALITY, PS- DUMDUM, KOLKATA- 700028, DISTRICT- 24 PGS (N),  
WEST BENGAL**

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

<b>Sl. No.</b>	<b>Information/Checklist confirmation</b>	<b>Yes / No</b>	<b>Details thereof (with approximate quantities/rates, wherever possible) with source of information data</b>
4.1	Spoil, overburden or mine wastes	No	
4.2	Municipal waste (domestic and or commercial wastes)	Yes	During Construction and operation phases about 78 kg/day and 1090 kg/day respectively domestic solid waste (garbage) will be generated.
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	Yes	The construction materials to be handled, stored and used are mostly of non hazardous type. The hazardous waste will mainly be of centering oil, grease, water proofing compounds, paints, wood dust from treated wood, discarded lube oil etc. Special care will be taken to prevent spillage so that the hazardous solid waste will not be mixed with non-hazardous waste. Hazardous solid waste will be stored in HDPE container as per Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2016 and its subsequent amendments and finally sold to the authorized vendor of MoEF.
4.4	Other industrial process wastes	No	
4.5	Surplus product	No	
4.6	Sewage sludge or other sludge from effluent treatment	Yes	The proposed STP will be based on the principle of Anaerobic Baffled Reactor followed by tertiary treatment (pressure sand filter, activated carbon filter and uv radiation). Process flow chart of STP already given. The sludge will be disposed off and used as manure for agricultural field.
4.7	Construction or demolition wastes	Yes	Solid waste generated from construction activities will be 501 MT. Other construction waste will be used in the site and road preparation work. These wastes do not contain any asbestos or hazardous material.
4.8	Redundant machinery or equipment	No	
4.9	Contaminated soils or other materials	Yes	Hazardous waste originating from centering oil, grease, water proofing compounds, paints, wood dust from treated wood,

**HOUSING COMPLEX “MPL HOUSING” AT 147, R.N.GUHA ROAD,  
MOUJA-DIGLA, JL NO.- 18, WARD NO. 09, UNDER SOUTH DUMDUM  
MUNICIPALITY, PS- DUMDUM, KOLKATA- 700028, DISTRICT- 24 PGS (N),  
WEST BENGAL**

			discarded lube oil etc. will be stored in HDPE container to prevent soil contamination.
4.10	Agricultural wastes	No	
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)**

<b>Sl. No.</b>	<b>Information/Checklist confirmation</b>	<b>Yes / No</b>	<b>Details thereof (with approximate quantities / rates, wherever possible) with source of information data</b>
5.1	Emissions from combustion of fossil fuels from stationary or mobile sources	Yes	(i) The emission from DG sets (2 nos. 500 KVA) will be discharged through stack 4.5 mt above the roof of the D.G. buildings. Fuel (diesel) required for DG sets will be around 544 litre/hr. The emission from DG sets will be maintained as per the norms of CPCB given below PM < 0.3 G/kw-hr CO < 3.5 G/kw-hr HC < 1.3 G/kw-hr NO <sub>2</sub> < 9.2 G/kw-hr (ii) The vehicle to be used for transportation of materials must have a valid Pollution Under Control (PUC) certificate.
5.2	Emissions from production processes	No	
5.3	Emissions from materials handling including storage or transport	Yes	The site will be enclosed by a wall of about 15-20 feet height. Fugitive dust generated during material handling will be controlled by use of water sprinkler.
5.4	Emissions from construction activities including plant and equipment	Yes	Fugitive emission happens due to cement and sand handling but it will be maintained within norms.
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	Yes	Fugitive dust will be generated from the material handling areas. Water sprinkling arrangement will be done to minimise the dust generation. The proposed STP will be based on the principle of Anaerobic Baffled Reactor followed by tertiary treatment (Pressure Sand Filter, Activated Carbon Filter and Disinfection by UV Radiation). Process flow chart of STP already given. Sewage (construction phase) will be treated in a septic tank and finally discharged to Municipality drain.

**HOUSING COMPLEX “MPL HOUSING” AT 147, R.N.GUHA ROAD,  
MOUJA-DIGLA, JL NO.- 18, WARD NO. 09, UNDER SOUTH DUMDUM  
MUNICIPALITY, PS- DUMDUM, KOLKATA- 700028, DISTRICT- 24 PGS (N),  
WEST BENGAL**

5.6	Emissions from incineration of waste	No	-
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	-
5.8	Emissions from any other sources	No	-

**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 with source of information data																										
6.1	From operation of equipment e.g. engines, ventilation plant, crushers	Yes	Mainly during construction phase. The generation will be kept within norms.																										
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" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;">Equipments</th> <th style="width: 40%;">Typical Noise levels dB(A) 50 ft from source</th> </tr> </thead> <tbody> <tr><td>Air Compressor</td><td style="text-align: center;">81</td></tr> <tr><td>Compactor</td><td style="text-align: center;">82</td></tr> <tr><td>Concrete Mixer</td><td style="text-align: center;">85</td></tr> <tr><td>Concrete pump</td><td style="text-align: center;">82</td></tr> <tr><td>Concrete vibrator</td><td style="text-align: center;">76</td></tr> <tr><td>Jack Hammer</td><td style="text-align: center;">88</td></tr> <tr><td>Paver</td><td style="text-align: center;">89</td></tr> <tr><td>Pile driver</td><td style="text-align: center;">96-101</td></tr> <tr><td>Pump</td><td style="text-align: center;">76</td></tr> <tr><td>Shovel</td><td style="text-align: center;">82</td></tr> <tr><td>Mobile Crane</td><td style="text-align: center;">83</td></tr> <tr><td>Roller</td><td style="text-align: center;">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 neighbouring areas.</p>	Equipments	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
Equipments	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	Noise and vibration from piling activities will be within norms.																										

**HOUSING COMPLEX “MPL HOUSING” AT 147, R.N.GUHA ROAD,  
MOUJA-DIGLA, JL NO.- 18, WARD NO. 09, UNDER SOUTH DUMDUM  
MUNICIPALITY, PS- DUMDUM, KOLKATA- 700028, DISTRICT- 24 PGS (N),  
WEST BENGAL**

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 PUC certificate.</p> <p>Traffic movement will be controlled by the security inside the premises 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	The construction materials to be handled, stored and used are mostly non hazardous types. The hazardous waste are mainly of centering oil, grease, water proofing compounds, paints, wood dust from treated wood, discarded lube oil etc.. Special care will be taken to prevent spillage and health hazard. Discarded lube oil will be stored in HDPE container as per Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2016 and its subsequent amendments and finally sold to the 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	<p>Wastewater generation from the proposed project will be 236 kld. The wastewater will be collected through a well designed sewer network leading to STP, based on FAB technology followed by tertiary system and reused as much possible within the project.</p> <p><b>RECYCLED: 126 kld</b></p>

**HOUSING COMPLEX “MPL HOUSING” AT 147, R.N.GUHA ROAD,  
MOUJA-DIGLA, JL NO.- 18, WARD NO. 09, UNDER SOUTH DUMDUM  
MUNICIPALITY, PS- DUMDUM, KOLKATA- 700028, DISTRICT- 24 PGS (N),  
WEST BENGAL**

			(Flushing : 86 kld, Landscaping : 25 kld & Car Washing : 15 kld). The excess treated wastewater that will be discharged to Municipality drain in front of the project site – 110 kld.
7.3	By deposition of pollutants emitted to air into the land or into water	No	Nothing mention worthy pollutants will be emitted to air, which may cause dry/wet deposition on the land or water.
7.4	From any other sources	No	-
7.5	Is there a risk of long term build up of pollutants in the environment from these sources?	No	-

**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	-
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)?	Yes	During design all precautions for disaster management will be considered as per NBC, IS codes and other statutory norms.

**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	Lead to development of supporting facilities, ancillary development or development stimulated by the project which could have impact on the environment e.g.:  •Supporting infrastructure (roads,	Yes	The internal road will be constructed by the project authority.  The electricity will be supplied by CESC.  Solid waste originating from constructional activities will be 501 MT. Construction waste

**HOUSING COMPLEX “MPL HOUSING” AT 147, R.N.GUHA ROAD,  
MOUJA-DIGLA, JL NO.- 18, WARD NO. 09, UNDER SOUTH DUMDUM  
MUNICIPALITY, PS- DUMDUM, KOLKATA- 700028, DISTRICT- 24 PGS (N),  
WEST BENGAL**

	<p>power supply, waste or waste water treatment, etc.)</p> <ul style="list-style-type: none"> <li>• housing development</li> <li>• extractive industries</li> <li>• supply industries</li> <li>• other</li> </ul>		<p>will be used in the site and road preparation work.</p> <p>Wastewater generation from the proposed project will be 236 kld. The wastewater will be collected through a well designed sewer network leading to STP, based on FAB technology followed by tertiary system and reused as much possible within the project.</p> <p><b>RECYCLED: 126 kld</b></p> <p>(Flushing : 86 kld, Landscaping : 25 kld &amp; Car Washing : 15 kld)</p> <p>The excess treated wastewater that will be discharged to Municipality drain in front of the project site – 110 kld.</p> <p>Garbage will be treated at source for biodegradable, recyclables and inert material during construction (78 kg/day) (390 persons @ 0.2 kg/day) and operational phases (1090 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 South Dumdum Municipality as per the guideline given by SEAC/SEIAA/WBPCB for management of Municipal solid waste for Municipality areas.</p> <p>Temporary labor hut with temporary sanitation facilities</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	Yes	It will lead to economical and social development of the surrounding area.
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	No	The area is a housing area with clubs and showrooms.

**HOUSING COMPLEX “MPL HOUSING” AT 147, R.N.GUHA ROAD,  
MOUJA-DIGLA, JL NO.- 18, WARD NO. 09, UNDER SOUTH DUMDUM  
MUNICIPALITY, PS- DUMDUM, KOLKATA- 700028, DISTRICT- 24 PGS (N),  
WEST BENGAL**

**(III) Environmental Sensitivity**

<b>Sl. No.</b>	<b>Areas</b>	<b>Name/ Identity</b>	<b>Aerial distance (within 15 km.) Proposed project location boundary</b>
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	No	
2	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	Yes	East Kolkata wetland - 15 km
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	
4	Inland, coastal, marine or underground waters	No	
5	State, National boundaries	No	
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	Yes	Dum Dum Road 1 km Jessore Road 2.5 km
7	Defense installations	No	
8	Densely populated or built-up area	Yes	Dum dum - 1 km
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Yes	Sddm Hospital 1 Km Motijheel Girls School 1.5 Km Motijheel College 1 Km Baro Kali Mandir 1.5 Km
10	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	
11	Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)	No	
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions)	No	

**HOUSING COMPLEX “MPL HOUSING” AT 147, R.N.GUHA ROAD,  
MOUJA-DIGLA, JL NO.- 18, WARD NO. 09, UNDER SOUTH DUMDUM  
MUNICIPALITY, PS- DUMDUM, KOLKATA- 700028, DISTRICT- 24 PGS (N),  
WEST BENGAL**

**(IV). Proposed Terms of Reference for EIA studies**

I hereby given 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 give, if any to the project will be revoked at our risk and cost.

Date:

Place:

\_\_\_\_\_  
**Sushil Mohta, Director, Merlin Projects Limited.  
& Constituted Attorney of ABP Pvt. Ltd.  
22 , Prince Anwar Shah Road,  
Kolkata – 700033.**

**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.