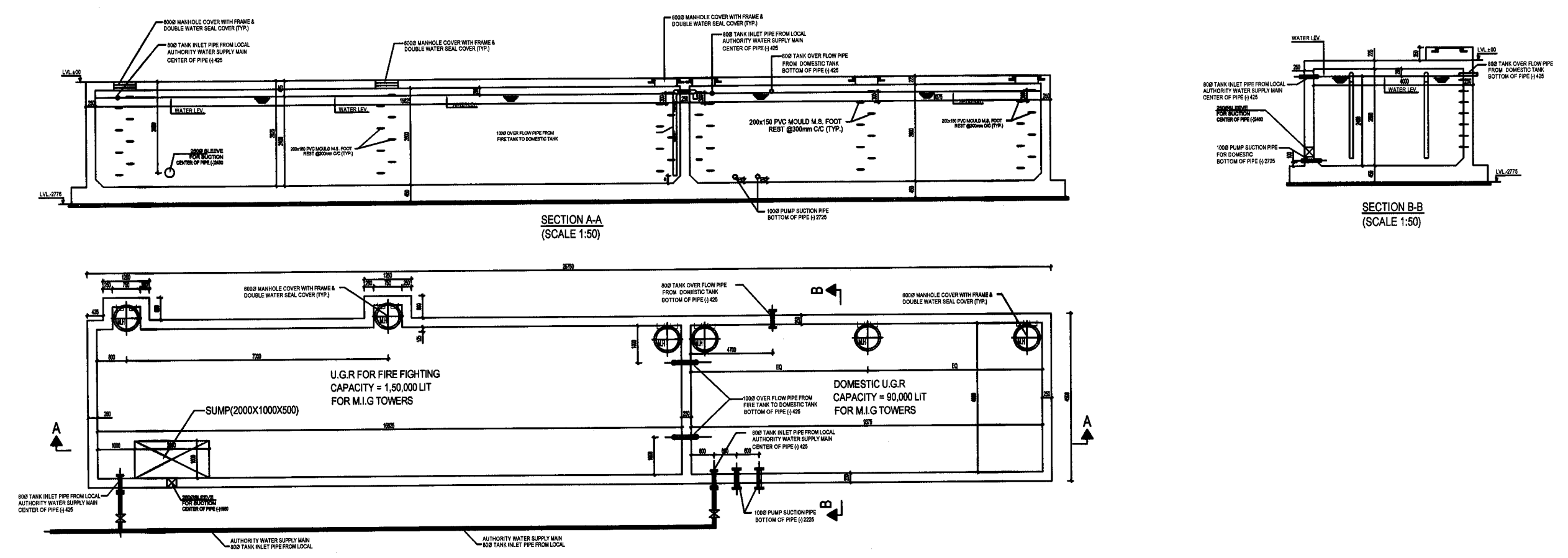
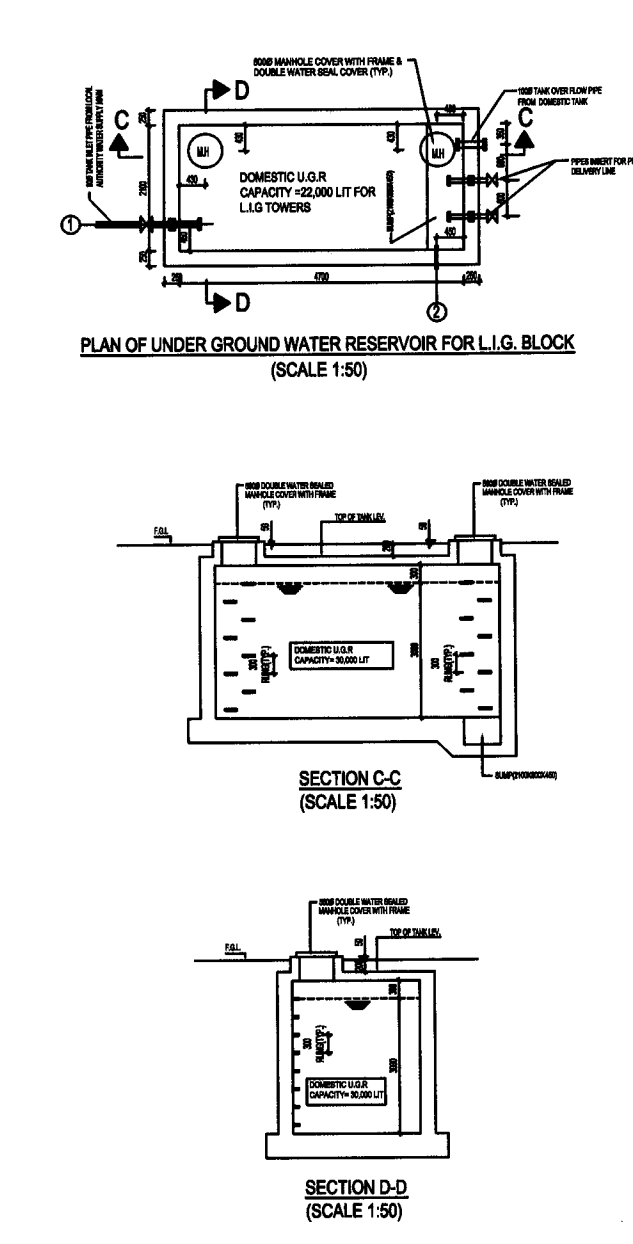


BOLCK -A' DETAIL OF UNDER GROUND WATER



BOLCK -B' DETAIL OF UNDER GROUND WATER

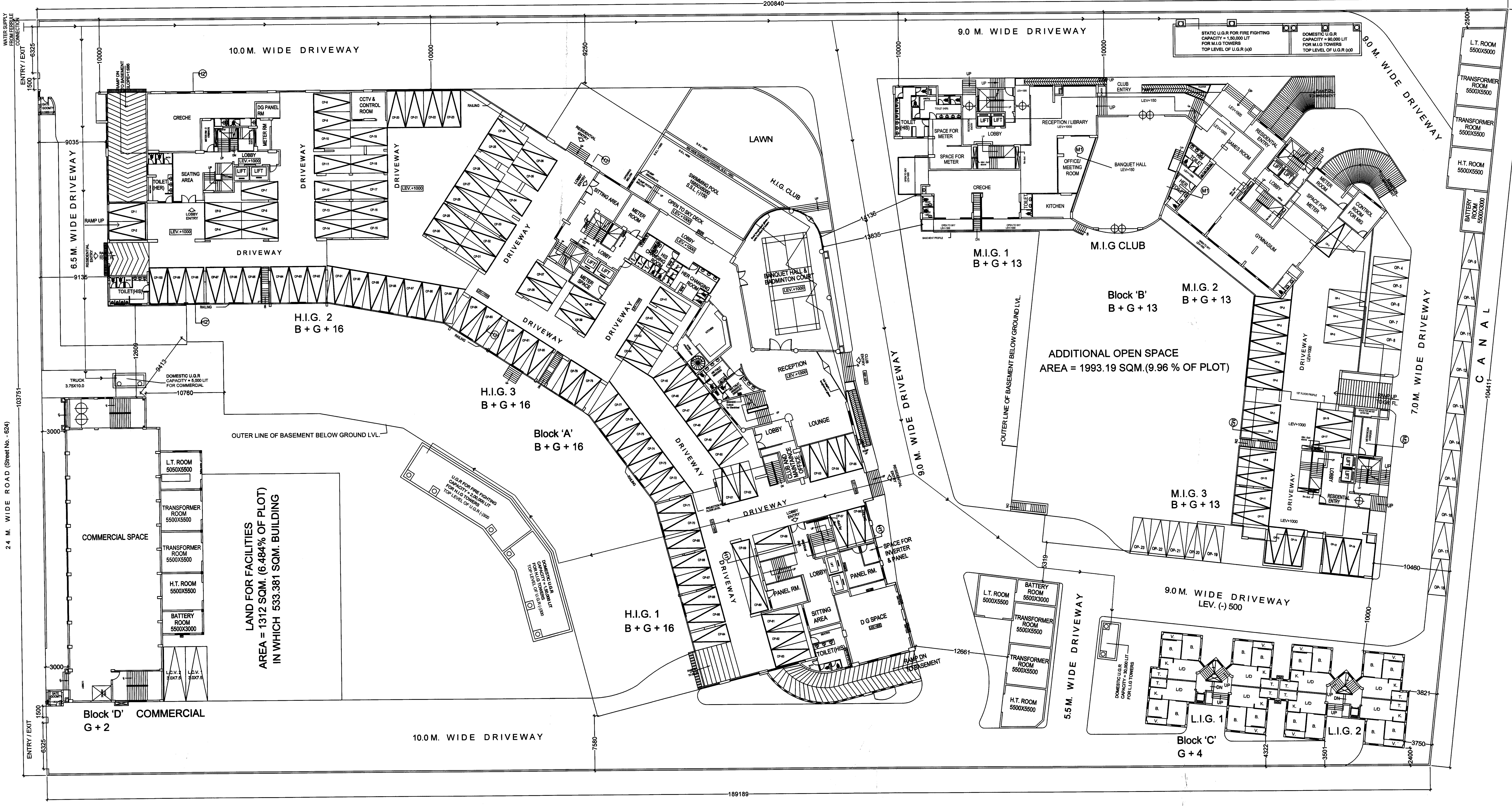


BOLCK -C' DETAIL OF UNDER GROUND WATER

WATER REQUIREMENT CALCULATION

- Total No of Flats
 - 4 BHK Flats = 63 Nos.
 - 3 BHK Flats = 127 Nos.
 - 2.5 BHK Flats = 155 Nos.
 - 1 BHK Flats = 40 Nos.
- No. of Persons
 - No of Persons @ 6 for 4BHK = 378 Nos.
 - No of Persons @ 5 for 3BHK = 635 Nos.
 - No of Persons @ 5 for 2.5BHK = 780 Nos.
 - No of Persons @ 3 for 1BHK = 120 Nos.

Total = 1913 Nos.
- Water requirement per head per day for Residential: 135 lpcd x 1913 = 258255 lpcd = 259 KLD
- Other Persons (floating) 10% of total Population: 191 = 2585 lpcd = 3 KLD
- Water requirement per head per day for Other Persons(floating): 15 lpcd x 191 = 2865 lpcd = 3 KLD
- Water requirement for Commercial (Area=1334.436 sq.m.) considering @3sq.m. per person: 45 lpcd x 445 = 20025 lpcd = 20KLD
- Water requirement for Club (Area= 1234.351 sq.m.) considering @3.25sq.m. per person: 45 lpcd x 380 = 17100 lpcd = 17KLD
- Water requirement for Banquet Hall (Area= 393.008sq.m.) considering @1.6sq.m. per person: 70 lpcd x 246 = 17220 lpcd = 17KLD
- Total nos. of Staff for Banquet Hall, Club and Commercial considering 10% of total nos. of occupant i.e. 10% of 1071 = 107 nos. = 45 lpcd x 107 = 4815 lpcd = 5KLD
- Total water requirement for Residential, Banquet Hall, Club and Commercial = 321 KLD
- Water requirement for Landscaping = 38 KLD
- Water requirement for Car Washing = 18 KLD
- Losses = 3 KLD
- Water requirement for Swimming Pool = 10 KLD
- Total water requirement for the Project per day : 390 KLD
Considering O.H. water reservoir filled up twice daily.
- Capacity U.G. reservoir required = 390000 litres
- Capacity U.G. reservoir provided = (150000+90000+30000+5000) litres = 275000 litres
- Capacity O.H. reservoirs required(50% of UGR) = 195000 litres
- Capacity O.H. reservoirs provided = 199658 litres
- Capacity FIRE U.G. reservoir required = 350000 litres
- Capacity FIRE U.G. reservoir provided = 350000 litres
- Capacity FIRE O.H. reservoirs provided = 146987 litres



CERTIFICATE OF THE ARCHITECT :
I CERTIFY THAT ALL THE ARCHITECTURAL DRAWINGS OF THE PROJECT AT PRESENTED AND APPROVED BY THE ARCHITECTURAL AUTHORITY, NEW TOWN, KOLKATA HAVE BEEN PREPARED BY ME IN ACCORDANCE WITH THE NEW TOWN KOLKATA BUILDING OPERATIONS REGULATIONS, 2008 AND THE PLANNING AREA BUILDING OPERATIONS REGULATIONS, 2008. I SHALL BE RESPONSIBLE FOR ANY VIOLATION OF THESE REGULATIONS IF FURNISHED BY ME OR ANY VIOLATION OF THESE REGULATIONS AND THE PLANNING AREA BUILDING OPERATIONS REGULATIONS, 2008 IS FOUND IN ANY OF THE DRAWINGS AND DOCUMENTS, SIGNED BY ME AND SUBMITTED TO THE ARCHITECTURAL AUTHORITY FOR OBTAINING SANCTION.

SIGNATURE OF THE ARCHITECT
ANIRBAN BHADURI MONDAL
ACH/IN/KA/09/00001
INNATE
292 BALLYUNGE CIRCULAR ROAD, UDAYAN PARK
FLAT NO. 7, 3RD FLOOR, KOLKATA-700019

CERTIFICATE OF THE STRUCTURAL ENGINEER / CIVIL ENGINEER :
I CERTIFY THAT THE STRUCTURAL DRAWING AND DESIGN OF BOTH THE FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING SHOWN HAS BEEN MADE CONSIDERING THE SOIL TEST REPORT, AS PER THE RULES AND REGULATIONS UNDER THE ACT AND ALSO CONSIDERING ALL POSSIBLE LOADS, SEISMIC LOAD AND THE INCIDENTS GENERATED BY THE PROPOSED STRUCTURE AS PER THE IS 8000 STANDARD AND NATIONAL BUILDING CODE OF INDIA AND CERTIFIED THAT IT IS SAFE AND STABLE IN ALL RESPECT AND THESE PROVISIONS SHALL BE ADHERED TO DURING THE CONSTRUCTION.

SIGNATURE OF THE STRUCTURAL ENGINEER / CIVIL ENGINEER
MAHAK MAJUMDAR
STER/IN/KA/10/00000
ADRODT Consultants
292 BALLYUNGE CIRCULAR ROAD, KOLKATA-70

CERTIFICATE OF THE GEO TECHNICAL ENGINEER :
IT IS CERTIFIED THAT THE COMPREHENSIVE GEO-TECHNICAL REPORT ON SOIL INVESTIGATION HAS BEEN PREPARED BY ME FOR DESIGN AND CALCULATION OF THE FOUNDATION BY ANALYZING THE SOIL SAMPLES FOR ESTIMATING THE BEARING CAPACITY OF THE SOIL ON WHICH FOUNDATION OF THE STRUCTURE WILL BE CONSTRUCTED. I SHALL ALSO CHECK THE NATURE OF THE SOIL AFTER EXCAVATION AT SITE SO THAT FOUNDATION IS EXTENDED UP TO APPROPRIATE DEPTH THAT HAS BEEN PROVIDED IN THE GEO-TECHNICAL REPORT.

SIGNATURE OF THE GEO TECHNICAL ENGINEER
SIDDHARTHA NATH
GTE/IN/CD/09/00022
GEO. R. C. ENGINEERS, 1409, BOYDANWARI BYPASS STREET, KOLKATA-700017

CERTIFICATE OF THE TOWN PLANNER :
IT IS CERTIFIED THAT THE MASTER PLAN OF THE PROJECT HAS BEEN DESIGNED AS PER THE NEW TOWN KOLKATA BUILDING RULES, 2008 AND CERTIFIED THAT IT IS IN COMPLIANCE WITH ALL STANDARDS IN ALL RESPECT AND THESE PROVISIONS SHALL BE ADHERED TO DURING THE CONSTRUCTION.

SIGNATURE OF THE URBAN DESIGN/TOWN PLANNER
ASHOK CHAKRABARTI
TPR/IN/KA/10/00023
GEO. R. C. ENGINEERS, 1409, BOYDANWARI BYPASS STREET, KOLKATA-700017

SIGNATURE OF THE OWNER
WEST BENGAL HOUSING BOARD
THROUGH ITS CONSTITUTED ATTORNEY

SIGNATURE OF DEVELOPER
(BENGAL SHELTER HOUSING DEVELOPMENT LTD.)

NOTE: ALL THE RECOMMENDATIONS OF WEST BENGAL FIRE SERVICES AND CIVIL AVIATION AUTHORITY WILL BE STRICTLY ADHERED TO THIS PROJECT.

PROJECT:
PROPOSED HOUSING COMPLEX DEVELOPED BY BENGAL SHELTER HOUSING DEVELOPMENT LIMITED AT PRE. NO. - AA/II-B/BLK - 4 ACTION AREA - II, NEW TOWN, KOLKATA

TITLE
MASTER PLAN SHOWING WATER SUPPLY LINE AND DETAIL OF UNDER GROUND WATER RESERVOIR FOR BOLCK -A' B' C'

DRG. NO.	IN/151/NK/DA/4	SCALE	1:200	DRAWN BY	P.M.
DATE	20.08.2019	DATE	20.08.2019	CHECKED BY	A.B.
JOB NO.	IN/151	DESIGNED BY	INNATE		
ARCHITECT					

292 BALLYUNGE CIRCULAR ROAD, UDAYAN PARK
FLAT NO. 7, 3RD FLOOR, KOLKATA-700019
PAC. (033) 2298-4028
TEL.(033) 4000-8422-29

THIS DRAWING IS A PRIVATE AND CONFIDENTIAL DOCUMENT AND THE PROPERTY OF INNATE. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF INNATE.

THIS IS TO CERTIFY THAT UNDER GROUND R.C.C. WATER TANKS ALONG WITH ITS R.C.C. COVER SLAB AND INTERMEDIATE BEAMS WILL BE CAPABLE TO TAKING DEAD LOAD, SUPERIMPOSED LOAD, LIVE MOVING LOAD TO VEHICLE AND SEISMIC LOAD.