THE KOLKATA MUNICIPAL CORPORATION
BUILDING PERMIT
No. 2021070003
Date: 11/03/21 Borough No. VIII
Ex. Engineer / Asst. Engineer
Bor. No. VIII Bor. No. VIII
BUILDING DEPARTMENT

PLAN OF UNDER GROUND WATER RESERVOIR FOR FIRE FIGHTING OF CAPACITY - 2,03,000 LTS., FOR DOMESTIC USE OF CAPACITY - 8300 GAL.
SCALE- 1:100

SECTION AT-AA
(SCALE-1:100)

SITE PLAN
SCALE :- 1:600

LOCATION PLAN
SCALE :- 1:4000

SECTION-DD
BLOCK-B

FRONT ELEVATION
BLOCK-B

ROOF PLAN OF TEMPLE
BLOCK-B

GROUND FLOOR PLAN

| SCHEDULE OF DOORS | | | |
|---|---|---|---|
| NO. | SILL | LINTEL | SIZE |
| D | - | 2450 | 1800X2450 |
| D1 | - | 2450 | 1200X2450 |
| D1A | - | 2150 | 1200X2150 |
| D1B | 250 | 2400 | 1200X2150 |
| D2 | - | 2450 | 1000X2450 |
| D3 | - | 2450 | 900X2450 |
| D3A | - | 2150 | 900X2150 |
| D4 | - | 2450 | 850X2450 |
| D5 | - | 2150 | 750X2150 |
| D5A | 250 | 2250 | 750X2000 |
| FCD-1 | - | 2450 | 1800X2450 |
| FCD-2 | - | 2450 | 1125X2450 |
| FCD-3 | - | 2450 | 1000X2450 |
| SD | - | 2450 | 3000X2450 |
| SD1 | - | 2450 | 4500X2450 |
| SD2 | - | 2450 | 4050X2450 |
| SD3 | - | 2450 | 2000X2450 |

| SCHEDULE OF WINDOWS | | | |
|---|---|---|---|
| W1 | 350 | 2450 | 2100X2100 |
| W2 | 350 | 2450 | 850X2100 |
| W2A | 350 | 2450 | 2500X2100 |
| W2B | 950 | 2450 | 850X1500 |
| W3 | 1100 | 2450 | 1500X1350 |
| W3A | 1100 | 2450 | 900X1350 |
| W3B | 1100 | 2450 | 600X1350 |
| W3C | 1100 | 2450 | 2500X1350 |
| W4 | 1250 | 2450 | 900X1200 |
| W4A | 1250 | 2450 | 600X1200 |
| W4B | 1250 | 2450 | 850X1200 |
| W5 | 1250 | 2150 | 600X900 |
| W5A | 1250 | 2250 | 600X1000 |
| V | 2300 | 2750 | 750X450 |
| C.G | AS PER ELEVATION | | |

8. a) CAR PARKING CALCULATION (COVERED):-

| BLOCK | FLOOR | PERMISSIBLE EXEMPTED AREA | PROVIDED NUMBER OF CARS | PROVIDED AREA |
|---|---|---|---|---|
| A | GROUND FLOOR | (25.000X15) = 375.000 | 24 NOS. INCL 18 MECH | 324.076 |
| | BASEMENT | (40.000X30)=1200.000 | 30 NOS. | 896.082 |
| TOTAL CAR-PARKING AREA IN GR. FL. & BASEMENT | | 1575 | 54 NOS. | 1220.158 |

SO TOTAL EXEMPTED AREA = (324.076+896.082)SQ.M.
FOR PARKING FROM F.A.R. = 1220.158 SQ.M.

8.b) CAR PARKING AT GROUND FLOOR (OPEN) = 66
9. NET CONSUMED FLOOR AREA PROPOSED = 13596.538 SQ.M.
10. PROPOSED F.A.R. =(13596.538 - 1220.158)/4305.31= 2.8747
11. OTHER AREA (in sq.m) ONLY FOR FEES:-

| EXEMPTED AREA | GATE GOOMTY | F.R.P. | ROOF TOP SWIMMING POOL | TRIPLE HT. BALCONY | CANOPY |
|---|---|---|---|---|---|
| 1023.300 | 8.990+8.943 =17.933 | 23.805 X4= 95.220 | 68.530 | 54.880 | 14.535 |

TOTAL AREA = 1276.098

| ST. HEAD ROOM AREA | O.H.W.R. AREA | LIFT SHAFT ROOF AREA | W.C. AREA AT ROOF |
|---|---|---|---|
| 42.288 | 34.891 | 22.875 | 2.970 |

12. TERRACE AREA = 1047.721
13. TREE COVER AREA :-
REQUIRED (15.000%) = 645.796 SQ.M.
PROVIDED (15.501%) = 667.379 SQ.M.
14.TENEMENTS FOR CAR PARKING CALCULATION:

| TENEMENT | TENEMENT SIZE AREA (SQ.M.) | PROP. AREA TO BE ADDED (SQ.M.) | ACTUAL TENEMENT AREA (SQ.M.) | NO. OF TENEMENT | TENEMENT RANGE (SQ.M.) |
|---|---|---|---|---|---|
| A | 240.626 | 74.373 | 314.999 | 1X3=3 | (200-300)= 20 |
| A1 | 235.406 | 72.759 | 308.165 | 1X18=18 | (300-400)= 21 |
| B | 225.244 | 69.618 | 294.862 | 1X2=2 | |
| B1 | 217.594 | 67.254 | 284.848 | 1X18=18 | (400-500)= 01 |
| DUP. C | 393.102 | 121.500 | 514.602 | 1X1=1 | (500-600)= 01 |
| DUP. D | 370.000 | 114.360 | 484.360 | 1X1=1 | |

REQUIRED CAR PARKING FOR BLOCK-A RESIDENTIAL PART= 40+63+4+5=112
REQUIRED CAR PARKING FOR BLOCK-A GAMES ROOM & GYM AT 1ST. FL. = 148.844/35 = 4.253 = 4 NOS.
15. AT LEAST 1% OF TOTAL DEMAND LOAD TO BE GENERATED FROM SOLAR POWER SOURCE.

A. DETAILS OF PLAN PROPOSAL :-
1. ASSESSEE NO. - 110702200271
2. a) LAND AREA (AS PER DEED) = 4305.31 SQ.M.(3B.-4K.-5CH.-37 SQ.FT.)
2. b) NO. OF STOREY = (B+G+XXIII)
3. NO. OF TENEMENTS = 43 NOS.
4. SIZE OF TENEMENT
a) (200 - 300) SQ.M. - 20 NOS.
b) (300 - 400) SQ.M. - 21 NOS.
c) (400 - 500) SQ.M. - 01 NO.
d) (500 - 600) SQ.M. - 01 NO.

B.
1. PROPOSED GROUND COVERAGE = 1047.721 SQ.M. (24.336%)
2. F.A.R. CONSUMED = 2.8747
3. TOTAL SERVICE AREA (IN GR. FL.) = 580.066 SQ.M.
4. BUILT-UP AREA OF GAMES RM & GYM (AT1ST. FL.) = 170.031 SQ.M.
5. CARPET AREA OF GAMES RM & GYM (AT1ST. FL.) = 148.844 SQ.M.
6. CARPET AREA OF TEMPLE = 16.465 SQ.M.
7. TOTAL CAR PARKING AREA = 1220.158 SQ.M.
a) BASEMENT = 896.082 SQ.M.
b) GROUND = 324.076 SQ.M.
8. NO.OF CAR PARKING (REQUIRED) = 112 + 4 = 116 NOS.
(PROVIDED) = 120 NOS.
a) OPEN (GR.) = 66 NOS.
b) COVERED(GR.) = 24 NOS.(INCL.18 NOS. MECH.PARKING)
c) BASEMENT = 30 NOS.

AREA STATEMENT (ALL AREAS ARE IN SQ.M.)
1. a) LAND AREA = 4305.31 SQ.M.
b) AREA GIFTED TO K.M.C. FOR PASSAGE WIDENING = 22.535 SQ.M.
c) NO. OF STOREY = (B+G+XXIII)
2. F.A.R. PERMISSIBLE (CONSIDERING 15% EXTRA FOR METRO CORRIDOR ADVANTAGE) = (2.5+.375) = 2.875
3. PERMISSIBLE GROUND COVERAGE (50.00%) ON LAND AREA = 2152.655 SQ.M.
4. PROPOSED GROUND COVERAGE FOR RESIDENTIAL -(23.832%)=1026.033 SQ.M.
PROPOSED GROUND COVERAGE FOR TEMPLE - ( 0.504%) = 21.688 SQ.M.
5.PERMISSIBLE TOTAL COVERED AREA - (4305.31 X 2.875) (EXCLUDING EXEMPTED AREAS AND PARKING) = 12377.766 SQ.M.
6.PROPOSED TOTAL BUILT-UP AREA (EXCLUDING EXEMPTED AREAS & PARKING) = 12376.380 SQ.M.

7. PROPOSED AREAS - BLOCK A

| FLOOR | GROSS COV. AREA | CUTOUT (ST. WELL+LIFT +CUTOUT IN FL.) | EXEMPTED AREA: STAIR WAY | EXEMPTED AREA: LIFT LOBBY | NET FL. AREA |
|---|---|---|---|---|---|
| i. BASEMENT | 976.486 | — | — | 3.000 | 973.486 |
| ii. FIRE PUMP ROOM | 84.228 | — | — | — | 84.228 |
| iii. GROUND FLOOR | 1019.295 | 5.000+5.000+7.650+ 11.415+78.000+6.300+ 1.100+0.250+0.438 =115.153 | 16.875+18.075 = 34.950 | 3.000X3 = 9.000 | 860.192 |
| iv.a. 1ST. FL. RESIDENTIAL | 415.424 | 5.000+5.000+1.100+6.300 +0.765+0.358+0.250 +0.375+0.438=19.586 | 16.500+ 16.950 = 33.450 | 3.000X3 = 9.000 | 523.419 |
| b.1ST. FLGYM &GAMES RM. | 170.031 | | | | |
| c.TOTAL1ST. FL. | 585.455 | | | | |
| v. SECOND FLOOR | 580.235 | 5.000+5.000+1.100+6.300 +0.765+0.358+0.250+ 0.375+0.438=19.586 | 16.500+ 16.950 = 33.450 | 3.000X3 = 9.000 | 518.199 |
| vi. FOURTH FLOOR | 580.235 | 5.000+5.000+1.100+6.300 +0.765+0.358+0.250+ 0.375+0.438=19.586 | 16.500+ 16.950 = 33.450 | 3.000X3 = 9.000 | 518.199 |
| vii. 3RD.& 6TH.FL. | 578.655X2 =1157.310 | (5.000+5.000+1.100+6.300 +0.765+0.358+0.250+ 0.375+0.438)X2=19.586X2 =39.172 | (16.500+ 16.950)X2 =33.450X2 =66.900 | (3.000X3) X2 =(9.000X2) =18.000 | 516.619 X2 =1033.238 |
| viii.TYP. FLOOR (5TH, 8TH, 11TH, 14TH, 17TH, 20TH) | 573.435X6 =3440.610 | (5.000+5.000+1.100+6.300 +0.765+0.358+0.250+0.375 +0.438)X6=19.586X6 =117.516 | (16.500+ 16.950)X6 =33.450X6 =200.700 | (3.000X3) X6 =(9.000X6) =54.000 | 511.399X6 =3068.394 |
| ix.TYP. FLOOR (7TH, 10TH, 13TH, 16TH, 19TH) | 573.435X5 =2867.175 | (5.000+5.000+1.100+6.300 +0.765+0.358+0.250+0.375 +0.438)X5=19.586X5 =97.930 | (16.500+ 16.950)X5 =33.450X5 =167.250 | (3.000X3) X5 =(9.000X5) =45.000 | 511.399X5 =2556.995 |
| x.TYP. FLOOR (9TH, 12TH, 15TH, 18TH) | 573.435X4 =2293.740 | (5.000+5.000+1.100+6.300 +0.765+0.358+0.250+0.375 +0.438)X4=19.586X4 =78.344 | (16.500+ 16.950)X4 =33.450X4 =133.800 | (3.000X3) X4 =(9.000X4) =36.000 | 511.399X4 =2045.596 |
| xi. 21ST. FLOOR | 573.435 | (5.000+5.000+1.100+6.300 +0.765+0.358+0.250+ 0.375+0.438)=19.586 | (16.500+ 16.950)= 33.450 | (3.000X3) =9.000 | 511.399 |
| xii. 22ND. FLOOR | 573.435 | (5.000+5.000+1.100+6.300 +0.765+0.358+0.250+ 0.375+0.438)=19.586 | (16.500+ 16.950)= 33.450 | (3.000X3) =9.000 | 511.399 |
| xiii. 23RD. FLOOR | 481.701 | (5.000+5.000+1.100+6.300 +0.765+0.358+0.250+0.375 +0.438+14.629+2.188+ 18.745+13.997)=69.145 | (16.500+ 16.950)= 33.450 | (3.000X3) =9.000 | 369.179 |
| TOTAL OF BLOCK A | 15213.340 | 615.190 | 804.300 | 219.000 | 13574.850 |
| AREA OF TEMPLE (BLOCK-B) | 21.688 | — | — | — | 21.688 |
| TOTAL NET AREA OF BLK-A + BLK-B = 13574.850+21.688 = 13596.538 | | | | | |

| SL. NO. | NOC | REFERENCE | DATE |
|---|---|---|---|
| a. | OBSERVATION FROM KIT | 2E/OB/CE/066I-18/52-69 | 27.02.18 |
| b. | OBSERVATION FROM CHIEF VALUIOR AND SURVEYOR'S DEPARTMENT, KMC | CH. V. & S. ID NO. 772 / 2018-2019 | 02.05.19 |
| c. | CLEARANCE CERTIFICATE / APPLICATION COPY FROM ULC DEPARTMENT | 542 / XVI-3992 / 2017-UL | 25.09.17 |
| d. | OBSERVATION OF WBFS DEPARTMENT | IND/WB/FES/ 2018-2019/44507 | 07.06.19 |
| e. | NOC FROM MICROWAVE SURVEY | G/MWC/1-150/ITB/ 2016-19/CAT-3/VOL-II/01(320) | 03.08.18 |
| f. | NOC FROM AAI | BEHAE/AST/B/100118 /340697 | 05.10.18 |

✻ ARTIFICIAL LIGHTING AND MECHANICAL VENTILATION

TRANSFORMER LOAD CALCULATION

| SL. | ITEM | QNTY. | CONNECTED LOAD (WATT) | DEMAND LOAD (KW ) | UNIT |
|---|---|---|---|---|---|
| 1. | 5BHK FLAT DETAIL | | | | |
| a. | FAN POINT | 7 | 560 | 0.28 | KW |
| b. | EXHAUST FAN POINT | 6 | 450 | 0.23 | KW |
| c. | BRACKET LIGHT POINT | 16 | 128 | 0.06 | KW |
| d. | CEILING LIGHT POINT | 20 | 300 | 0.15 | KW |
| e. | MIRROR LIGHT | 5 | 40 | 0.02 | KW |
| f. | FOOT LIGHT | 5 | 30 | 0.02 | KW |
| g. | 6A SOCKET | 35 | 3500 | 1.75 | KW |
| h. | 16A SOCKET | 4 | 1600 | 0.80 | KW |
| i. | GYESER POINT | 6 | 9000 | 4.50 | KW |
| j. | A/C POINT | 7 | 700 | 0.35 | KW |
| k. | A/C ODU | 1 | 11920 | 9.54 | KW |
| | 5 BHK TOTAL | | 28.20 | 17.69 | KW |
| | TOTAL FOR 21 NOS | | | 371 | KW |
| 2. | 4 BHK FLAT DETAIL | | | | |
| a. | FAN POINT | 6 | 480 | 0.24 | KW |
| b. | EXHAUST FAN POINT | 4 | 300 | 0.15 | KW |
| c. | BRACKET LIGHT POINT | 12 | 96 | 0.05 | KW |
| d. | CEILING LIGHT POINT | 18 | 270 | 0.14 | KW |
| e. | MIRROR LIGHT | 3 | 24 | 0.01 | KW |
| f. | FOOT LIGHT | 4 | 24 | 0.01 | KW |
| g. | 6A SOCKET | 30 | 3000 | 1.50 | KW |
| h. | 16A SOCKET | 4 | 1600 | 0.80 | KW |
| i. | GYESER POINT | 5 | 7500 | 3.75 | KW |
| j. | A/C POINT | 6 | 600 | 0.30 | KW |
| k. | A/C ODU | 1 | 10430 | 8.30 | KW |
| | 4 BHK TOTAL | | 24.30 | 15.30 | KW |
| | TOTAL FOR 20 NOS | | | 306 | KW |
| 3. | DUPLEX- C DETAIL | | | | |
| a. | FAN POINT | 9 | 720 | 0.36 | KW |
| b. | EXHAUST FAN POINT | 8 | 600 | 0.30 | KW |
| c. | BRACKET LIGHT POINT | 21 | 168 | 0.08 | KW |
| d. | CEILING LIGHT POINT | 30 | 450 | 0.23 | KW |
| e. | MIRROR LIGHT | 7 | 56 | 0.03 | KW |
| f. | FOOT LIGHT | 7 | 42 | 0.02 | KW |
| g. | 6A SOCKET | 45 | 4500 | 2.25 | KW |
| h. | 16A SOCKET | 4 | 1600 | 0.80 | KW |
| i. | GYESER POINT | 8 | 12000 | 6.00 | KW |
| j. | A/C POINT | 9 | 900 | 0.45 | KW |
| k. | A/C ODU | 1 | 15645 | 12.5 | KW |
| | DUPLEX- C TOTAL | | 36.8 | 23.0 | KW |
| 4. | DUPLEX- D DETAIL | | | | |
| a. | FAN POINT | 8 | 640 | 0.32 | KW |
| b. | EXHAUST FAN POINT | 6 | 450 | 0.23 | KW |
| c. | BRACKET LIGHT POINT | 15 | 120 | 0.06 | KW |
| d. | CEILING LIGHT POINT | 26 | 390 | 0.20 | KW |
| e. | MIRROR LIGHT | 5 | 40 | 0.02 | KW |
| f. | FOOT LIGHT | 6 | 36 | 0.02 | KW |
| g. | 6A SOCKET | 37 | 3700 | 1.90 | KW |
| h. | 16A SOCKET | 4 | 1600 | 0.80 | KW |
| i. | GYESER POINT | 6 | 9000 | 4.50 | KW |
| j. | A/C POINT | 8 | 1600 | 0.80 | KW |
| k. | A/C ODU | 1 | 15645 | 12.50 | KW |
| | DUPLEX- D TOTAL | | 33.20 | 21.30 | KW |
| | TOTAL LOAD FOR FLAT | | | 722 | KW |
| | BASEMENT | | 15930 | 7.97 | KW |
| | GROUND FLOOR | | 52340 | 31.40 | KW |
| | FIRST FLOOR | | 33780 | 20.27 | KW |
| | TYPICAL FLOOR | | 26210 | 13.11 | KW |
| | LIFT(3 NOS) | | 48000 | 38.40 | KW |
| | LANDSCAPE, BOUNDARY | | 6000 | 3.00 | KW |
| | VENTILATION & EXHAUST FANS | | 0 | 0 | KW |
| | TOILETS/ AHU FRESH AIR | | 0 | 0 | KW |
| | LIFT LOBBY PRESSURIZATION (FOR SERVICE LIFT) | | 8000 | 7.20 | KW |
| | STAIRCASE PRESSURIZATION (FOR SERVICE STAIR) | | 10000 | 9.00 | KW |
| | LIFT SHAFT PRESSURIZATION | | 0 | 0 | KW |
| | PLUMBING SYSTEM | | | | |
| | SUMP PUMP | | 4470 | 2.24 | KW |
| | DOMESTIC WATER PUMP | | 29800 | 14.90 | KW |
| | WATER TREATMENT PUMP | | 1490 | 1.49 | KW |
| | GARDENING PUMP | | 2235 | 1.12 | KW |
| | SUBMERSIBAL PUMP | | 2235 | 1.12 | KW |
| | SWIMMING POOL PUMP | | 6000 | 3.00 | KW |
| | FIRE PUMPS | | | | |
| | FIRE PUMP(SPRINKLER/HYD) | | 170000 | 85 | KW |
| | JOCKEY PUMPS(SPRINKLER+HYD) | | 16000 | 11 | KW |
| | BOOSTER PUMPS | | 10000 | 7 | KW |
| | TOTAL LOAD FOR COMMON | | | 257 | KW |
| | TOTAL LOAD EXCEPT FIRE PUMP LOAD | | | 876 | KW |
| | CONSIDERING 1% OF TOTAL LOAD TO BE USED FROM SOLAR POWER | | | 8.76 | KW |
| | TAKING OVERALL DEMAND @ 70% | | | 613 | KW |
| | TOTAL RESIDENTIAL LOAD | | | 613 | KW |
| | KVA RATING(CONSIDERING P.F. 0.85) | | | 721 | KVA |
| | CONSIDERING TRANSFORMER EFFICIENCY 85 % | | | 849 | KVA |

RAMESWAR PRASAD
Constituted Attorney of
United Church of Northern
India Trust Association (UCNITA)
SIGNATURE OF OWNER.
UNITED CHURCH OF NORTHERN INDIA TRUST ASSOCIATION.

CERTIFICATE OF STRUCTURAL ENGINEER.

THIS IS TO CERTIFY THAT THE STRUCTURAL DESIGN AND DRAWINGS OF BOTH FOUNDATION AND SUPER STRUCTURE OF THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER THE NATIONAL BUILDING CODE OF INDIA AND CERTIFIED THAT IT IS SAFE AND STABLE IN ALL RESPECTS.

SANJIV J. PAREEK
M.E. (STRUCT.), M.E. (CONST. ENG.), B. C. E., FIE-(F-018202-4)
E. S. E. NO. 104 (I) K. M.C.
SIGN. OF STRUC. ENGG.
SANJEEV J. PAREKH , ESE//104

SANJIB GUHA
BSC, BCE, FIE-(F-115554-5)
CHARTERED ENGINEER
ENLISTED STRUCTURAL REVIEWER
SIGN. OF STRUC. REVIEWER
SANJIB GUHA, ESR/88/16.

ALOK ROY
Empanelled Geotechnical Engineer
Kolkata Municipal Corporation
Class-I, No.- G.T/I/11
64, Milan Park,
Kolkata-700 026
SIGN. OF GEO-TECH ENGG.
ALOKE ROY, GT/I/11

CERTIFICATE OF ARCHITECT

I DO HERE BY CERTIFY WITH FULL RESPONSIBILITY THAT THE BUILDING PLAN HAS BEEN DRAWN UP AS PER K.M.C. BUILDING RULE - 2009 AS AMENDED FROM TIME TO TIME. THAT THE WIDTH OF THE ABUTTING ROAD CONFORM WITH THE PLAN AND IT IS A BUILDABLE SITE NOT A TANK OR A FILLED UP TANK. THE SITE PLAN, LOCATION PLAN AGREES WITH THE SITE. THE PLOT IS DEMARCATED BY BOUNDARY WALLS & MEASUREMENTS TALLY WITH THE REGD. DEED PLAN.

JAY PRAKASH BHARAT KUMAR AGRAWAL
B. Arch., A.I.I.A.
Reg. No. CA / 86 / 10098
ARCHITECT SL. NO. - 32(A)
SIGNATURE OF ARCHITECT
JAY PRAKASH BHARAT KUMAR AGRAWAL
REGN. NO. - CA/86/10098

TITLE-
GROUND FLOOR PLAN,SITE PLAN,LOCATION PLAN & DETAIL OF PUMP ROOM & U.G.W.R.,ROOF PLAN,SECTION & ELEVATION OF BLOCK-B

PROJECT-
PROPOSED (B+G+XXIII ) STORIED RESIDENTIAL BUILDING & 1 STORIED ASSEMBLY BUILDING (TEMPLE) AT PREM. NO. 16, LALA LAJPAT RAI SARANI,KOLKATA-20, WARD NO.- 70, BOROUGH -VIII, P.S.- BHOWANIPORE ,COMPLYING U/S 393A, OF K.M.C ACT 1980 AND K.M.C. BUILDING RULE 2009.

ARCHITECTS
AGRAWAL & AGRAWAL
BARODA KOLKATA

| SCALE | DATE | DEALT | CHECKED |
|---|---|---|---|
| 1 : 100 | 25.01.21 | POULOMI/SHRAMANA | SUPRIYA/SILPI |

SHEET NO.-2/7