## FIRST FLOOR AREA CALCULATION

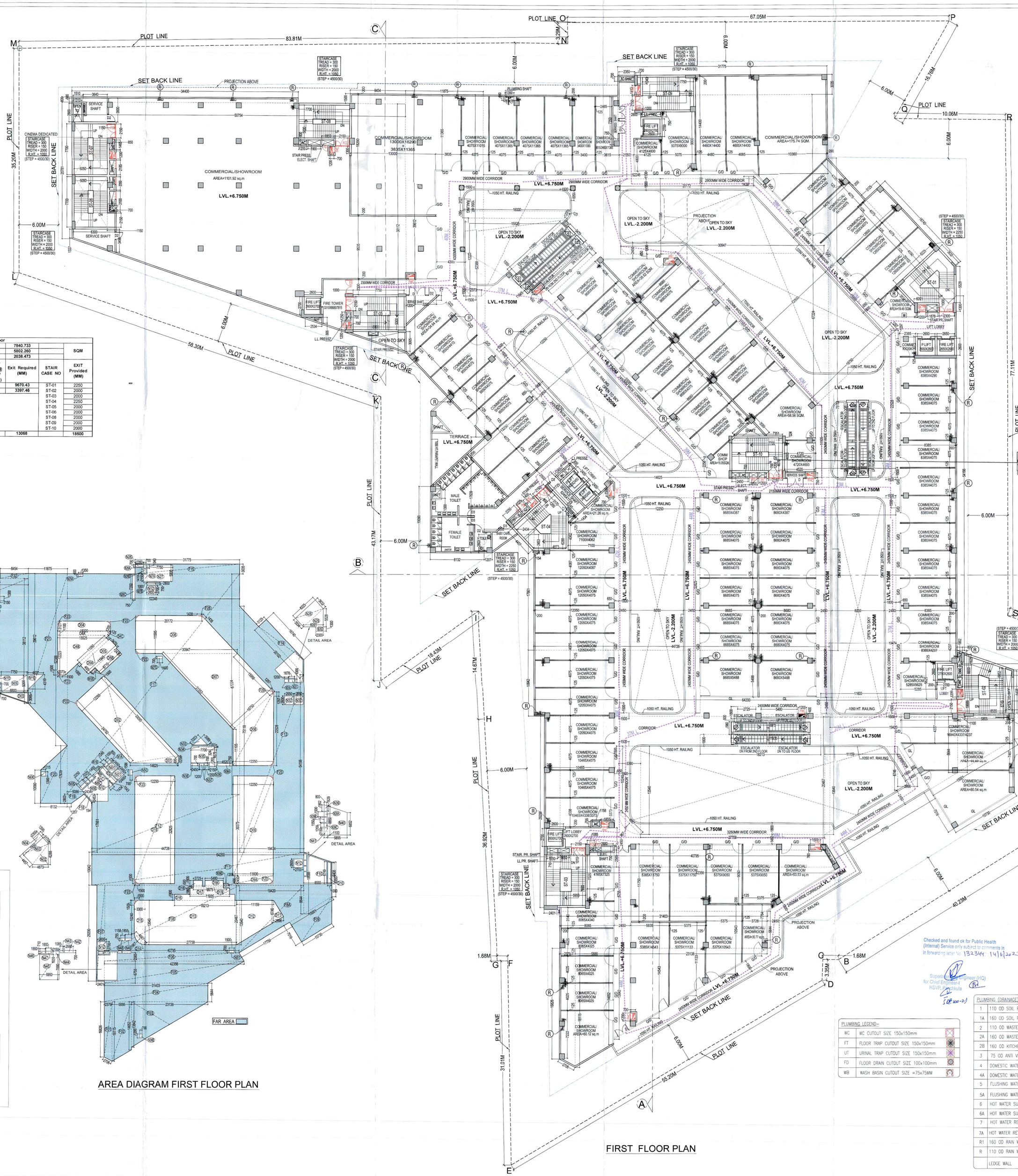
**COVD. AREA AT FIRST FLOOR = ADDITION - DEDUCTION**

| Sr No | Dim (m) | X | Dim (m) | Fec. | Nos | Area (SQM) |
|---|---|---|---|---|---|---|
| **ADDITION AREA** | | | | | | |
| F01 | ( 18.115 + 16.826 ) / 2 X 2.379 | | | 1 | 1 | 41.562 |
| F02 | ( 18.115 +14.652 ) / 2 X 5.886 | | | 1 | 1 | 96.433 |
| F03 | 23.138 | X | 13.842 | 0.50 | 1 | 160.138 |
| F04 | 31.403 | X | 5.644 | 1.00 | 1 | 177.239 |
| F05 | ( 42.356 +31.403 ) / 2 X 6.755 | | | 1 | 1 | 249.121 |
| F06 | ( 42.356 +40.795 ) / 2 X 2.565 | | | 1 | 1 | 106.641 |
| F07 | 2.401 | X | 29.200 | 1.00 | 1 | 70.109 |
| F08 | 40.795 | X | 20.467 | 1.00 | 1 | 834.951 |
| F8A | ( 20.467 +8.644 ) / 2 X 19.420 | | | 1 | 1 | 282.668 |
| F09 | ( 15.001 +10.730 ) / 2 X 7.016 | | | 1 | 1 | 90.264 |
| F10 | ( 18.686 + 10.557 ) / 2 X 8.555 | | | 1 | 1 | 125.087 |
| F11 | 64.200 | X | 10.042 | 1.00 | 1 | 644.696 |
| F12 | 44.726 | X | 17.661 | 1.00 | 1 | 789.906 |
| F13 | ( 75.118 +54.166 ) / 2 X 19.474 | | | 1 | 1 | 1258.838 |
| F14 | ( 20.102 + 16.740 ) / 2 X 3.125 | | | 1 | 1 | 57.566 |
| F15 | 31.775 | X | 3.035 | 1.00 | 1 | 96.437 |
| F17 | 52.246 | X | 67.224 | 1.00 | 1 | 3512.185 |
| F18 | ( 2.434 +0.154 ) / 2 X 2.453 | | | 1 | 1 | 3.174 |
| F19 | ( 5.086 + 1.207 ) / 2 X 2.803 | | | 1 | 1 | 8.820 |
| F20 | ( 17.639 +10.090 ) / 2 X 8.132 | | | 1 | 1 | 112.746 |
| F21 | ( 52.388 + 39.612) / 2 X 11.875 | | | 1 | 1 | 546.250 |
| F22 | 8.454 | X | 1.500 | 1.00 | 1 | 12.681 |
| F22A | (38.112 +20.781 ) / 2 X50.754 | | | 1 | 1 | 1494.528 |
| F22B | 34.400 | X | 0.800 | 1.00 | 1 | 27.520 |
| F23 | AREA AS PER DETAIL (0.500 X 12) | | | | 12 | 6.000 |
| F28 | AREA AS PER DETAIL (0.271 X 1) | | | | 1 | 0.271 |
| F29 | AREA AS PER DETAIL (0.202 X 23) | | | | 1 | 0.202 |
| | **TOTAL ADDITION AREA ( A )** | | | | | **10806.034** |
| **DEDUCTION AREA** | | | | | | |
| D01 | 14.625 | X | 2.258 | 0.50 | 1 | 16.512 |
| D02 | (33.095 + 24.792) / 2 X12.250 | | | | 1 | 354.558 |
| D03 | 8.800 | X | 3.005 | 0.50 | 1 | 13.222 |
| D04 | 3.127 | X | 16.000 | 1.00 | 1 | 50.032 |
| D4A | (16.00 + 15.525) / 2 X 1.100 | | | | 1 | 17.339 |
| D4B | (2.373+ 15.525) /2 X 12.223 | | | | 1 | 109.384 |
| D4C | 1.200 | X | 0.125 | 0.67 | 1 | 0.100 |
| D05 | 11.050 | X | 1.000 | 1.00 | 1 | 11.050 |
| D5A | 11.945 | X | 3.470 | 1.00 | 1 | 41.449 |
| D5B | 8.710 | X | 2.435 | 1.00 | 1 | 21.209 |
| D06 | (30.947 + 20.172) / 2 X 11.595 | | | | 1 | 296.362 |
| D07 | (31.553 + 15.956) / 2 X 16.750 | | | | 1 | 397.888 |
| D08 | (22.528 + 11.105) / 2 X 12.250 | | | | 1 | 206.002 |
| D09 | 12.250 | X | 30.375 | 1.00 | 1 | 372.094 |
| D9A | 11.600 | X | 2.450 | 1.00 | 1 | 28.420 |
| D10 | (6.749 + 6.408) / 2 X 1.000 | | | | 1 | 6.579 |
| D11 | 2.996 | X | 6.746 | 0.50 | 1 | 10.106 |
| D12 | (13.540 + 6.746) / 2 X 11.159 | | | | 1 | 113.186 |
| D13 | 27.758 | X | 13.540 | 1.00 | 1 | 375.843 |
| D14 | 4.667 | X | 0.967 | 0.67 | 1 | 3.024 |
| D15 | (13.540 + 10.240) / 2 X 3.300 | | | | 1 | 39.237 |
| D16 | 18.213 | X | 1.800 | 1.00 | 1 | 32.783 |
| D17 | 11.935 | X | 1.960 | 1.00 | 1 | 23.393 |
| D17A | 9.975 | X | 0.500 | 1.00 | 1 | 4.988 |
| D18 | 2.725 | X | 1.800 | 1.00 | 1 | 4.905 |
| D18A | 5.480 | X | 1.800 | 1.00 | 1 | 9.864 |
| D19 | 12.250 | X | 32.825 | 1.00 | 1 | 402.106 |
| D20 | 1.310 | X | 2.800 | 1.00 | 1 | 3.668 |
| | **TOTAL DEDUCTION AREA (B)** | | | | | **2965.301** |
| | **COVD. AREA AT FIRST FLOOR (C) = (A-B)** | | | | | **7840.733** |
| **NON FAR AREA** | | | | | | |
| N01 | 2.400 | X | 2.450 | 1.00 | 2 | 11.760 |
| N1A | 1.100 | X | 0.800 | 1.00 | 1 | 0.880 |
| N1B | 1.245 | X | 0.800 | 1.00 | 1 | 0.996 |
| N1C | 1.725 | X | 6.245 | 1.00 | 1 | 10.773 |
| N1D | 1.434 | X | 1.543 | 0.50 | 1 | 1.106 |
| N02 | 4.873 | X | 6.288 | 0.50 | 1 | 15.321 |
| N03 | (4.457+3.170 ) / 2 X7.850 | | | | 1 | 29.936 |
| N04 | 2.150 | X | 1.200 | 1.00 | 1 | 2.580 |
| N05 | 2.250 | X | 0.900 | 1.00 | 1 | 2.025 |
| N5B | 1.025 | X | 0.900 | 1.00 | 1 | 0.923 |
| N5C | 1.450 | X | 0.900 | 1.00 | 1 | 1.305 |
| N06 | 1.315 | X | 1.300 | 1.00 | 1 | 1.710 |
| N09 | 7.750 | X | 5.000 | 1.00 | 1 | 38.750 |
| N10 | 1.000 | X | 2.150 | 1.00 | 1 | 2.150 |
| N11 | 0.700 | X | 1.200 | 1.00 | 1 | 0.840 |
| N11A | 0.700 | X | 1.250 | 1.00 | 1 | 0.875 |
| N11B | 4.637 | X | 4.310 | 0.50 | 1 | 9.993 |
| N12 | 2.600 | X | 2.700 | 1.00 | 4 | 28.080 |
| N12D | 1.500 | X | 0.450 | 1.00 | 1 | 0.675 |
| N13 | 2.534 | X | 0.866 | 0.50 | 1 | 1.097 |
| N14 | (3.490+1.337 ) / 2 X 6.300 | | | | 1 | 15.205 |
| N15 | 5.050 | X | 7.700 | 1.00 | 2 | 77.770 |
| N15A | 1.510 | X | 0.600 | 1.00 | 1 | 0.906 |
| N16 | 1.150 | X | 2.150 | 1.00 | 2 | 4.945 |
| N17 | 3.640 | X | 3.600 | 1.00 | 1 | 13.104 |
| N18 | 0.850 | X | 1.465 | 1.00 | 1 | 1.245 |
| N18A | 0.850 | X | 1.200 | 1.00 | 1 | 1.020 |
| N19 | 0.850 | X | 2.185 | 1.00 | 1 | 1.857 |
| N20 | 0.850 | X | 2.050 | 1.00 | 1 | 1.743 |
| N21 | 0.850 | X | 3.100 | 1.00 | 1 | 2.635 |
| N22 | 5.000 | X | 7.700 | 1.00 | 1 | 38.500 |
| N23 | 2.150 | X | 1.300 | 1.00 | 1 | 2.795 |
| N24 | 0.800 | X | 1.850 | 1.00 | 1 | 1.480 |
| N24A | 0.800 | X | 1.900 | 1.00 | 1 | 1.520 |
| N24B | 0.800 | X | 1.200 | 1.00 | 1 | 0.960 |
| N25 | 0.700 | X | 1.200 | 1.00 | 1 | 0.840 |
| N25A | 0.600 | X | 1.350 | 1.00 | 1 | 0.810 |
| N26 | 0.700 | X | 2.350 | 1.00 | 1 | 1.645 |
| N26A | 0.700 | X | 1.040 | 1.00 | 1 | 0.728 |
| N26B | 0.700 | X | 1.410 | 1.00 | 1 | 0.987 |
| N26C | 0.750 | X | 7.350 | 1.00 | 1 | 5.513 |
| N27 | 7.750 | X | 5.000 | 1.00 | 1 | 38.750 |
| N27A | 1.000 | X | 2.150 | 1.00 | 1 | 2.150 |
| N27B | 2.800 | X | 0.750 | 1.00 | 1 | 2.100 |
| N27D | 1.600 | X | 0.700 | 1.00 | 1 | 1.120 |
| N28 | (3.632+3.534) / 2 X 8.225 | | | | 1 | 29.470 |
| N29 | 6.091 | X | 5.528 | 0.50 | 1 | 16.836 |
| N30 | 2.300 | X | 1.300 | 1.00 | 1 | 2.990 |
| N31 | 1.676 | X | 1.000 | 1.00 | 1 | 1.676 |
| N31A | 1.200 | X | 1.000 | 1.00 | 1 | 1.200 |
| N32 | 2.650 | X | 2.600 | 1.00 | 2 | 13.780 |
| N33 | 3.323 | X | 3.089 | 0.50 | 1 | 5.132 |
| N34 | (7.700 + 7.351) / 2 X0.324 | | | | 1 | 2.438 |
| N35 | 7.700 | X | 4.676 | 1.00 | 1 | 36.005 |
| N36 | 2.150 | X | 1.200 | 1.00 | 1 | 2.580 |
| N36A | 4.520 | X | 0.750 | 1.00 | 1 | 3.390 |
| N36B | 1.200 | X | 0.700 | 1.00 | 1 | 0.840 |
| N37 | 1.200 | X | 0.700 | 1.00 | 2 | 1.680 |
| N38 | 2.450 | X | 0.700 | 1.00 | 1 | 1.715 |
| N39 | (1.902 +1.629) / 2 X 0.800 | | | | 1 | 1.412 |
| N39A | 1.500 | X | 0.800 | 1.00 | 1 | 1.200 |
| N39B | 1.550 | X | 0.800 | 1.00 | 1 | 1.240 |
| N39C | 1.200 | X | 0.800 | 1.00 | 1 | 0.960 |
| N39C | 1.200 | X | 0.400 | 1.00 | 1 | 0.480 |
| N40 | (8.850 + 6.852) / 2 X 5.855 | | | | 1 | 45.968 |
| N41 | 1.100 | X | 2.150 | 1.00 | 1 | 2.365 |
| N42 | 2.680 | X | 0.700 | 1.00 | 1 | 1.876 |
| N43 | 1.085 | X | 0.700 | 1.00 | 1 | 0.760 |
| N44 | 2.150 | X | 1.010 | 1.00 | 1 | 2.172 |
| N45 | 5.950 | X | 7.690 | 1.00 | 1 | 45.756 |
| N46 | 1.550 | X | 0.710 | 1.00 | 1 | 1.101 |
| N47 | 1.650 | X | 0.710 | 1.00 | 1 | 1.172 |
| N48 | 1.855 | X | 0.755 | 1.00 | 1 | 1.401 |
| N49 | 1.158 | X | 0.755 | 1.00 | 1 | 0.874 |
| N50 | 1.586 | X | 0.700 | 1.00 | 1 | 1.110 |
| N51 | 1.500 | X | 0.700 | 1.00 | 1 | 1.050 |
| | **NON FAR AREA AT FIRST FLOOR (D)** | | | | | **612.728** |
| | **FAR AREA AT FIRST FLOOR = ( C- D )** | | | | | **7228.005** |

**Exit Calculation For First Floor**

| | | | | | |
|---|---|---|---|---|---|
| Total Gross area | | | | 7840.733 | SQM |
| Mercantile Area at First Floor | | | | 5802.260 | |
| Circulation Area at First Floor | | | | 2038.473 | |

| Floors | | Average occupant load as per NBC | No. of occupant | As per NBC (@ 10sm/ Person) | Exit Required (MM) | STAIR CASE NO | EXIT Provided (MM) |
|---|---|---|---|---|---|---|---|
| Mercantile Area | 5802.260 | 6 | 967.04 | 10 | 9670.43 | ST-01 | 2250 |
| Circulation Area | 2038.473 | 6 | 339.75 | 10 | 3397.46 | ST-02 | 2000 |
| | | | | | | ST-03 | 2000 |
| | | | | | | ST-04 | 2250 |
| | | | | | | ST-05 | 2000 |
| | | | | | | ST-06 | 2000 |
| | | | | | | ST-08 | 2000 |
| | | | | | | ST-09 | 2000 |
| | | | | | | ST-10 | 2000 |
| TOTAL | | | 1306.79 | | 13068 | | 18500 |




AREA DIAGRAM FIRST FLOOR PLAN

**DETAIL OF ( F 23 )**

| Sr No | Dim(m) | X | Dim(m) | Fec. | Nos | Area (SQM) |
|---|---|---|---|---|---|---|
| **ADDITON AREA - DEDUCTION AREA** | | | | | | |
| **ADDITION AREA** | | | | | | |
| F1A | 1.500 | X | ( 1.500) | 0.50 | 1 | 1.125 |
| **ADDITION AREA ( A )** | | | | | | **1.125** |
| **DEDUCTION AREA** | | | | | | |
| D1A | 2.121 | X | 0.442) | 0.67 | 1 | 0.625 |
| **DEDUCTION AREA ( B )** | | | | | | **0.625** |
| **TOTAL AREA AT ( F23 ) = ( A - B )** | | | | | | **0.500** |

AREA=0.500 SQ.M.

**DETAIL OF ( F28)**

| Sr No | Dim(m) | X | Dim(m) | Fec. | Nos | Area (SQM) |
|---|---|---|---|---|---|---|
| **ADDITON AREA - DEDUCTION AREA** | | | | | | |
| **ADDITION AREA** | | | | | | |
| F1A | 1.318 | X | 0.574) | 0.50 | 2 | 0.757 |
| **ADDITION AREA ( A )** | | | | | | **0.757** |
| **DEDUCTION AREA** | | | | | | |
| D1A | 2.636 | X | 0.275) | 0.67 | 1 | 0.486 |
| **DEDUCTION AREA ( B )** | | | | | | **0.486** |
| **TOTAL AREA AT ( F28 ) = ( A - B )** | | | | | | **0.271** |

AREA= 0.271 SQ.M.

**DETAIL OF ( F29)**

| Sr No | Dim(m) | X | Dim(m) | Fec. | Nos | Area (SQM) |
|---|---|---|---|---|---|---|
| **ADDITON AREA - DEDUCTION AREA** | | | | | | |
| **ADDITION AREA** | | | | | | |
| F1A | 1.207 | X | 0.474) | 0.50 | 2 | 0.572 |
| **ADDITION AREA ( A )** | | | | | | **0.572** |
| **DEDUCTION AREA** | | | | | | |
| D1A | 2.414 | X | 0.229) | 0.67 | 1 | 0.370 |
| **DEDUCTION AREA ( B )** | | | | | | **0.370** |
| **TOTAL AREA AT ( F29 ) = ( A - B )** | | | | | | **0.202** |

AREA= 0.202 SQ.M.

FAR AREA

FIRST FLOOR PLAN

Consultant Architect

ATP(HQ)

(Dinesh Kumar) PA(HQ)

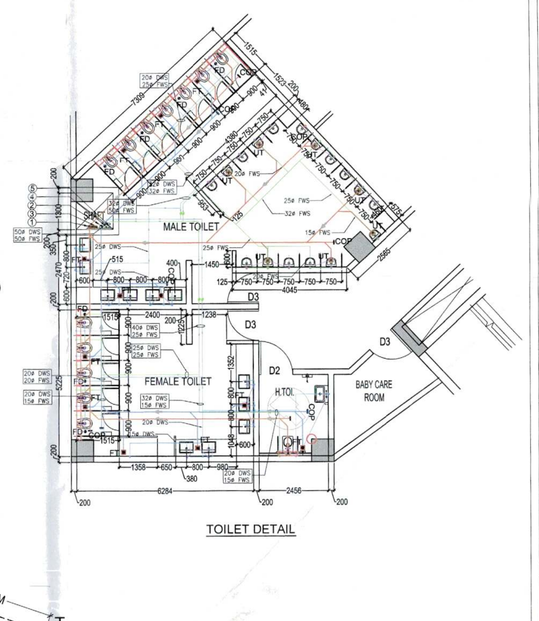
P.A.

TO BE READ WITH THIS OFFICE MEMO NO.:
DATED :

DTP(HQ) Member BPAC

**FIRST TOILET CALCULATION**

| FAR AREA AT FIRST FLOOR | | | | | 7228.005 | | SQMT | |
|---|---|---|---|---|---|---|---|---|
| DENSITY AT FIRST FLOOR | | | | | 1204.668 | | 1205 | POPULATION |
| NO. | PERMANENT POPULATION | | FLOATING POPULATION | | TOTAL REQUIRED | | TOTAL PROVIDED | |
| | 10% | 120.47 | 90% | 1084.20 | | | | |
| | MALE (2/3) | FEMALE (1/3) | MALE (2/3) | FEMALE (1/3) | MALE | FEMALE | MALE | FEMALE |
| POPULATION | 80 | 40 | 723 | 361 | | | | |
| W.C. | 3.21 | 2.68 | 2.89 | 2.26 | 6 | 5 | 7 | 5 |
| URINAL | 2.68 | | 14.46 | | 17 | | 18 | |
| WASH BASIN | 3.21 | 1.61 | 2.89 | 2.58 | 6 | 4 | 6 | 5 |




TOILET DETAIL

**SCHEDULE OF -OPENINGS**

| TYPE | WIDTH | HEIGHT | SILL HT. | LINTEL | FIRE RATED |
|---|---|---|---|---|---|
| D | 2000 | 2100 | - | 2100 | |
| D1 | 1500 | 2100 | - | 2100 | |
| D2 | 1200 | 2100 | - | 2100 | |
| D3 | 900 | 2100 | - | 2100 | |
| FCD | 2000 | 2100 | - | 2100 | 2 Hr. |
| FCD1 | 2250 | 2400 | - | 2400 | 2 Hr. |
| FCD2 | 1200 | 2100 | - | 2100 | 2 Hr. |
| FCD3 | 900 | 2100 | - | 2100 | 2 Hr. |
| FCD4 | 3000 | 3000 | - | 3000 | 2 Hr. |
| FCD5 | 1500 | 2100 | - | 2100 | 2 Hr. |
| FCD6 | 2500 | 3000 | - | 3000 | 2 Hr. |
| FD1 | 2000 | 2100 | - | 2100 | 2 Hr. |
| FD | 900 | 2100 | - | 2100 | 2 Hr. |
| G/D | AS/PLAN | 2700 | - | 2700 | |
| GL | AS/PLAN | 2700 | - | 2700 | |
| W1 | AS/PLAN | 2400 | - | 600 | |
| V1 | 1000 | 900 | - | B.O.B | |

Checked and found ok for Public Health (Internal) Services subject to comments in forwarding letter no. 132344 dt. 14/6/2023

Superintending Engineer (HQ) for Chief Engineer (Hqrs) HSVP, Panchkula

**PLUMBING LEGEND:-**

| | | |
|---|---|---|
| WC | WC CUTOUT SIZE 150x150mm | |
| FT | FLOOR TRAP CUTOUT SIZE 150x150mm | |
| UT | URINAL TRAP CUTOUT SIZE 150x150mm | |
| FD | FLOOR DRAIN CUTOUT SIZE 100x100mm | |
| WB | WASH BASIN CUTOUT SIZE =75x75MM | |

**PLUMBING (DRAINAGE) LEGEND:-**

| | |
|---|---|
| 1 | 110 OD SOIL PIPE |
| 1A | 160 OD SOIL PIPE |
| 2 | 110 OD WASTE PIPE |
| 2A | 160 OD WASTE PIPE |
| 2B | 160 OD KITCHEN WASTE PIPE |
| 3 | 75 OD ANTI VENT PIPE |
| 4 | DOMESTIC WATER SUPPLY PIPE FOR HIGH ZONE |
| 4A | DOMESTIC WATER SUPPLY PIPE FOR LOW ZONE |
| 5 | FLUSHING WATER SUPPLY PIPE FOR HIGH ZONE |
| 5A | FLUSHING WATER SUPPLY PIPE FOR LOW ZONE |
| 6 | HOT WATER SUPPLY PIPE FOR HIGH ZONE |
| 6A | HOT WATER SUPPLY PIPE FOR LOW ZONE |
| 7 | HOT WATER RETURN PIPE FOR HIGH ZONE |
| 7A | HOT WATER RETURN PIPE FOR LOW ZONE |
| R1 | 160 OD RAIN WATER PIPE |
| R | 110 OD RAIN WATER PIPE |
| | LEDGE WALL |

**N O T E S:-**

THIS DEVELOPMENT HAS BEEN CONCEIVED, DESIGNED AND DRAFTED ON THE BASIS OF THE FOLLOWING:-

1. ALL LISEABLE OFFICE SPACES/RETAIL SPACES (LIKE SHOP AREAS, ENTERTAINMENT) WILL BE AIR-CONDITIONED. THEREFORE,NO PROVISION HAS BEEN MADE FOR NATURAL VENTILATION OF SPACES.

2. ALL TOILETS/KITCHENS WILL BE MECHANICALLY VENTILATED.CONDITIONED AIR FROM THE FLOOR WILL BE DUCKED IN TO THE TOILETS/KITCHENS AND VENTED OUT THROUGH A VENT SHAFT.

3. ALL SPACES (OFFICE SPACES,RETAIL SPACES,SERVICE AREAS, PARKING BASEMENT,ETC) WILL BE ARTIFICIALLY LIT. ANY NATURAL LIGHT WHICH IS AVAILABLE IN THE OFFICE SPACES IS ONLY INCIDENTAL AND NOT ESSENTIAL TO THE FUNCTIONING OF THE BUILDING.

4. 100% STANDBY GENERATING CAPACITY WILL BE PROVIDED FOR THE ENTIRE ELECTRICAL REQUIREMENT OF THE TOTAL SCHEME. THIS THEREFORE INCLUDE STANDBY GENERATION FOR ALL COMMON SERVICES, FIRE SERVICES, LIFTS ETC. AND ALSO THE ENTIRE ELECTRICAL LOAD FOR VENTILATION,AIR-CONDITIONING, LIGHTS AND ALL OFFICE EQUIPMENT.

5. BASEMENT WILL BE ARTIFICIALLY VENTILATED.

6. THIS BUILDING WILL BE SPRINKLED AS PER NBC NORMS.

7. HANDICAP LIFT / PLATFORM WILL BE PROVIDED

For Peerage Buildwell Pvt Ltd
Authorised Signatory
OWNER'S SIGN

GIAN P. MATHUR
ARCHITECT
B. Arch., M.C.A., L.I.A
CA Reg. 80/5769
ARCHITECT'S SIGN

PROJECT:-
PROPOSED BUILDING PLAN OF COMMERCIAL COLONY AREA MEASURING 3.9625 ACRES (LICENCE NO. 47 DATED 18/04/2022) IN SECTOR-89, GURUGRAM BEING DEVELOPED BY SMART ARENA HOMETOWN LLP IN COLLABORATION WITH PEERRAGE BUILDWELL PVT. LTD.

TITLE:- FIRST FLOOR PLAN

DRG.NO.:- SB-06

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DEALT RAKESH
CHKD AMIT

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SCALE- 1:200
DATE- 15/06/2023

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