

RESIDENTIAL AREA CALCULATION : TOWER A

GROUND COVERAGE OF TOWER A	= 983.87	SQM
NUMBER OF FLOORS IN TOWER A	= G+13 FLOORS	
BUILT UP AREA OF GROUND FLOOR	= 181.5	SQM
BUILT UP AREA OF TYPICAL 1st to 5th FLOOR TYPICAL FLOOR	= 928.73 SQM x 5 SQM	= 4643.65 SQM
BUILT UP AREA OF TYPICAL 6th to 13th FLOOR TYPICAL FLOOR	= 1580.77 SQM x 8	= 12646.16 SQM

TOTAL BUILT UP AREA OF TOWER A	= 181.5 + 4643.65 + 12646.16 SQM	= 17471.31 SQM

WATER TANK CALCULATION-

TOTAL NOS. OF FLATS IN ALL FLOORS= 7x5 + 12x8 = 131 NOS.
PERSONS ASSUME @ 6 PERSONS PER FLAT SO TOTAL
NOS. OF PERSONS =6X131= 786 PERSONS
WATER REQUIRED @ 135 LTS./PERSONS/DAY
SO TOTAL REQUIRED =135X786=106110 LTS. (106.11 M3)
O.H.WATER TANK PROVIDED 3 NOS. SIZE =7.0X4.5X1.4X3=132.3 M3 =132300 LTS.

SEPTIC TANK CALCULATION-

TOTAL NOS. OF PERSONS =786 PERSONS
VOLUME REQUIRED @ 0.85 LTS./PERSON/DAY
SO TOTAL REQUIRED =.085X786=66.81 M3
SEPTIC TANK PROVIDED 3NOS. SIZE =4.5X2.5X2.10 X3=70.86 M3

AREA CALCULATION OF COMMERCIAL COMPLEX

GROUND COVERAGE OF COMMERCIAL COMPLEX	= 723.71	SQM
NUMBER OF FLOORS IN COMMERCIAL COMPLEX	= G+4 FLOORS	
BUILT UP AREA OF GROUND FLOOR	= 723.71	SQM
BUILT UP AREA OF TYPICAL 1st to 4th FLOOR	= 715.21 x 4 SQM	= 2860.84 SQM

TOTAL BUILT UP AREA OF COMMERCIAL COMPLEX	= 3584.55	SQM

WATER TANK CALCULATION-

TOTAL BUILT UP AREA OF COMMERCIAL COMPLEX
CARPET AREA = 3584.55 SQM
= 3584.55/2 SQM
= 1792.28 SQM

TAKING DENSITY OF 3.5 SQM PER PERSON:
OCCUPANCY OF COMMUNITY COMPLEX
= 1792.28/3.5 = 513 PERSON

WATER REQUIREMENT = 513X135 LTS.
= 69255 LTS. = 69.26 M3

O.H.WATER TANK PROVIDED 2 NOS. SIZE =6.5X5.0X1.4X2= 91 M3 = 91000 LTS.

SEPTIC TANK CALCULATION-

TOTAL NOS. OF PERSONS =513 PERSONS
VOLUME REQUIRED @ 0.85 LTS./PERSON/DAY
SO TOTAL VOLUME REQUIRED =.085X513=43.60 M3
SEPTIC TANK PROVIDED 2NOS. SIZE =4X3.0X2.10X2=50.4M3

BUILT UP AREA CHART :

SITE AREA	= 18975.4	SQM
FAR ALLOWED	= 3.5	
BUILT UP AREA ALLOWED	= 66413.9	SQM

TOTAL BUILT UP AREA OF RESIDENTIAL TOWER A	= 17471.31	SQM
TOTAL BUILT UP AREA OF RESIDENTIAL TOWER B	= 24116.39	SQM
TOTAL BUILT UP AREA OF RESIDENTIAL TOWER C	= 10270.40	SQM
TOTAL BUILT UP AREA OF RESIDENTIAL TOWER D	= 9369.85	SQM

TOTAL BUILT UP AREA OF ALL THE RESIDENTIAL TOWERS	= 61227.95	SQM

BUILT UP AREA OF COMMERCIAL COMPLEX	= 3584.55	SQM
BUILT UP AREA OF COMMUNITY COMPLEX	= 815.98	SQM
BUILT UP AREA OF TEMPLE COMPLEX	= 81	SQM

NET BUILT UP AREA ACHIEVED OF ALL THE COMPLEXES IN THE SITE	= 65709.48	SQM

FAR ACHIEVED	= 3.46	

AREA CALCULATION : TOWER B

GROUND COVERAGE OF TOWER B	= 1796.94	SQM
NUMBER OF FLOORS IN TOWER B	= G+14 FLOORS	
BUILT UP AREA OF GROUND FLOOR	= 188.43	SQM
BUILT UP AREA OF A TYPICAL FLOOR	= 1709.14	SQM
TOTAL NUMBER OF TYPICAL FLOORS IN TOWER B	= 14 floors	

TOTAL BUILT UP AREA OF TOWER B	= 188.43 + 14x 1709.14 SQM	= 24116.39 SQM

WATER TANK CALCULATION-

TOTAL NOS. OF FLATS IN ALL FLOORS=14X13=182 NOS.
PERSONS ASSUME @ 6 PERSONS PER FLAT SO TOTAL
NOS. OF PERSONS =6X182 = 1092 PERSONS
WATER REQUIRED @ 135 LTS./PERSONS/DAY
SO TOTAL REQUIRED =135X1092 = 147420 LTS. (147.42 M3)
O.H.WATER TANK PROVIDED 3 NOS. SIZE =9.0X4.5X1.4X3=170.1 M3 =170100 LTS.

SEPTIC TANK CALCULATION-

TOTAL NOS. OF PERSONS =1092 PERSONS
VOLUME REQUIRED @ 0.85 LTS./PERSON/DAY
SO TOTAL REQUIRED =.085X1092=92.82 M3
SEPTIC TANK PROVIDED 3 NOS. SIZE =4.0X4.0X2.10 X3=100.8 M3

AREA CALCULATION TOWER C

GROUND COVERAGE OF TOWER C (COMMUNITY COMPLEX)	= 815.98	SQM
NUMBER OF FLOORS IN TOWER C	= G+14 FLOORS	
BUILT UP AREA OF GROUND FLOOR	=COMMUNITY COMPLEX	
BUILT UP AREA OF A TYPICAL FLOOR	= 733.60	SQM
TOTAL NUMBER OF TYPICAL FLOORS IN TOWER C	= 14 floors	

TOTAL BUILT UP AREA OF TOWER C	= 14x733.60 SQM	= 10270.40 SQM

WATER TANK CALCULATION-

TOTAL NOS. OF FLATS IN ALL FLOORS=5X14=70 NOS.
PERSONS ASSUME @ 6 PERSONS PER FLAT SO TOTAL
NOS. OF PERSONS =6X70=420 PERSONS
WATER REQUIRED @ 135 LTS./PERSONS/DAY
SO TOTAL REQUIRED =135X420 = 56700 LTS. (56.7 M3)
O.H.WATER TANK PROVIDED 2 NOS. SIZE =6.5.0X4.5X1.4X2=81.9 M3 =81900 LTS.

SEPTIC TANK CALCULATION-

TOTAL NOS. OF PERSONS =420 PERSONS
VOLUME REQUIRED @ 0.85 LTS./PERSON/DAY
SO TOTAL REQUIRED =.085X420=35.7 M3
SEPTIC TANK PROVIDED 2NOS. SIZE =4.0X2.5X2.10 X2=42.0 M3

AREA CALCULATION OF COMMUNITY COMPLEX

BUILT UP AREA OF COMMUNITY COMPLEX	= 815.98	SQM
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WATER TANK CALCULATION-

TOTAL BUILT UP AREA OF COMMUNITY COMPLEX
CARPET AREA = 815.98/2 SQM
= 407.99 SQM

TAKING DENSITY OF 3.5 SQM PER PERSON:
OCCUPANCY OF COMMUNITY COMPLEX
= 407.99/3.5 = 116 PERSON

WATER REQUIREMENT = 116X135 LTS.
= 15660 LTS. = 15.66 M3

O.H.WATER TANK PROVIDED 2 NOS. SIZE =2.5X3.5X1.4X2=24.5 M3 =24500 LTS.

SEPTIC TANK CALCULATION-

TOTAL NOS. OF PERSONS =116 PERSONS
VOLUME REQUIRED @ 0.85 LTS./PERSON/DAY
SO TOTAL VOLUME REQUIRED =.085X116=9.86 M3

SEPTIC TANK PROVIDED 1NOS. SIZE =3X2.5X2.10=15.75M3

AREA CALCULATION TOWER D

GROUND COVERAGE OF TOWER D	= 799.59	SQM
NUMBER OF FLOORS IN TOWER C	= G+12 FLOORS	
BUILT UP AREA OF GROUND FLOOR	= 64.09	SQM
BUILT UP AREA OF A TYPICAL FLOOR	= 775.48	SQM
TOTAL NUMBER OF TYPICAL FLOORS IN TOWER C	= 12 floors	

TOTAL BUILT UP AREA OF TOWER C	= 64.09 + 12x775.48 SQM	= 9369.85 SQM

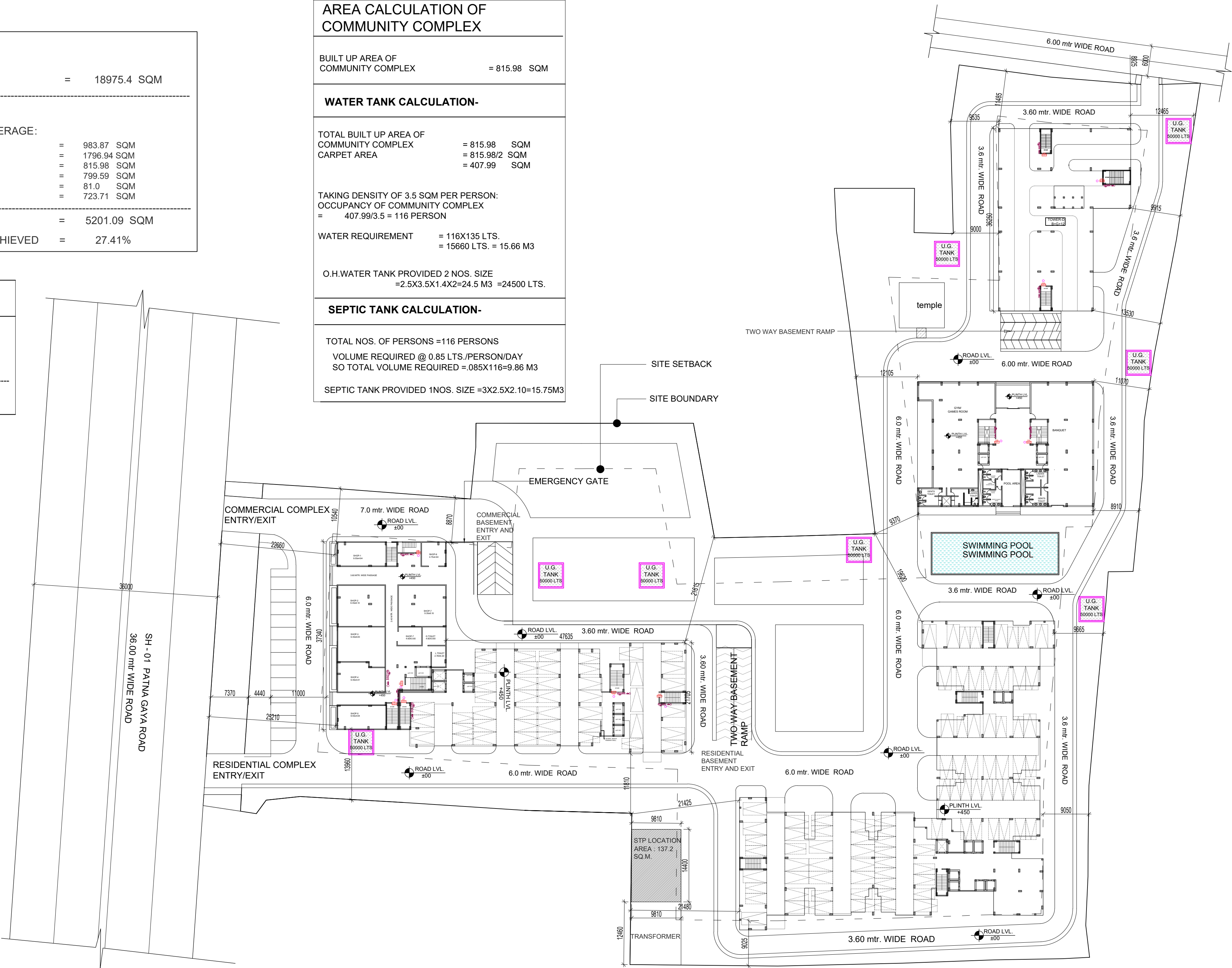
WATER TANK CALCULATION-

TOTAL NOS. OF FLATS IN ALL FLOORS = 4x12 + 11x12 = 180 NOS.
PERSONS ASSUME @ 4 PERSONS PER FLAT SO TOTAL
NOS. OF PERSONS = 4X180 = 720 PERSONS
WATER REQUIRED @ 135 LTS./PERSONS/DAY
SO TOTAL REQUIRED =135X720 = 97200 LTS. (97.2 M3)
O.H.WATER TANK PROVIDED 3 NOS. SIZE =6.0X4.5X1.4X3=113.4 M3 =113400 LTS.

SEPTIC TANK CALCULATION-

TOTAL NOS. OF PERSONS = 720 PERSONS
VOLUME REQUIRED @ 0.85 LTS./PERSON/DAY
SO TOTAL REQUIRED =.085X720 = 61.2 M3
SEPTIC TANK PROVIDED 2NOS. SIZE =5.0X3.0X2.10 X2=63 M3

LEGEND OF AREA TYPE		
S.N.	TYPE OF AREA	AREA NAME
01	U.G. TANK 30000 LTS	UNDERGROUND WATER RESERVOIR FOR FIRE



NOTE:-

1. DRAWING AND DIMENSIONS ARE ONLY TO BE READ AND NOT SCALED.
2. UNLESS OTHERWISE MENTIONED, ALL DIMENSIONS ARE GIVEN IN MILLIMETERS.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL, STRUCTURAL, AND SERVICES DRAWINGS.
4. ALL LEVELS GIVEN IN DRAWING ARE WITH REFERENCE TO THE N.G.L. AS BENCHMARKED AT SITE.
5. ANY DISCREPANCY BETWEEN THE ARCHITECTURAL /STRUCTURAL OR SERVICES DRAWINGS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BY THE CONTRACTOR OR PROJECT MANAGER, BEFORE EXECUTION OF THE SAME.

CONSULTANTS	NAME	PHONE NO.
STRUCTURE	----	--
PLUMBING	----	--
ELECTRICAL	----	--
LANDSCAPE	----	--

KEY PLAN

PROJECT TITLE:

DEVENDRA GREEN CITY

SH - 01, PATNA GAYA ROAD

DEVELOPER:

MAHENDRA GREEN HOMES PVT. LTD.

ADDRESS:

PLOT NO. 411, 412, 414, 415, 418, 419, 420, 421, 422, 423

KHATA NO. 09, 10, 26, 27, 33, 35, 43, 48

Thana No: 123, Mauza: Abdullahchak, SH - 01, Patna Gaya Road, Opp: Mahindra Commercial Vehicle Showroom, Patna

BUILDING:

SHEET TITLE

GROUND FLOOR PLAN

AKS/DGC/A/MCAA/100.2

Scale	1:500 @ A1	NORTH
DATE:	03-11-2017	SHEET No. 2
DRAWN BY:	CHECKED BY:	Rev. No.
JITENDRA	ATUL	00

AKS DESIGN STUDIO

PRINCIPAL ARCHITECT

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SIGNATURE OF OWNER	SIGNATURE OF ENGINEERS
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