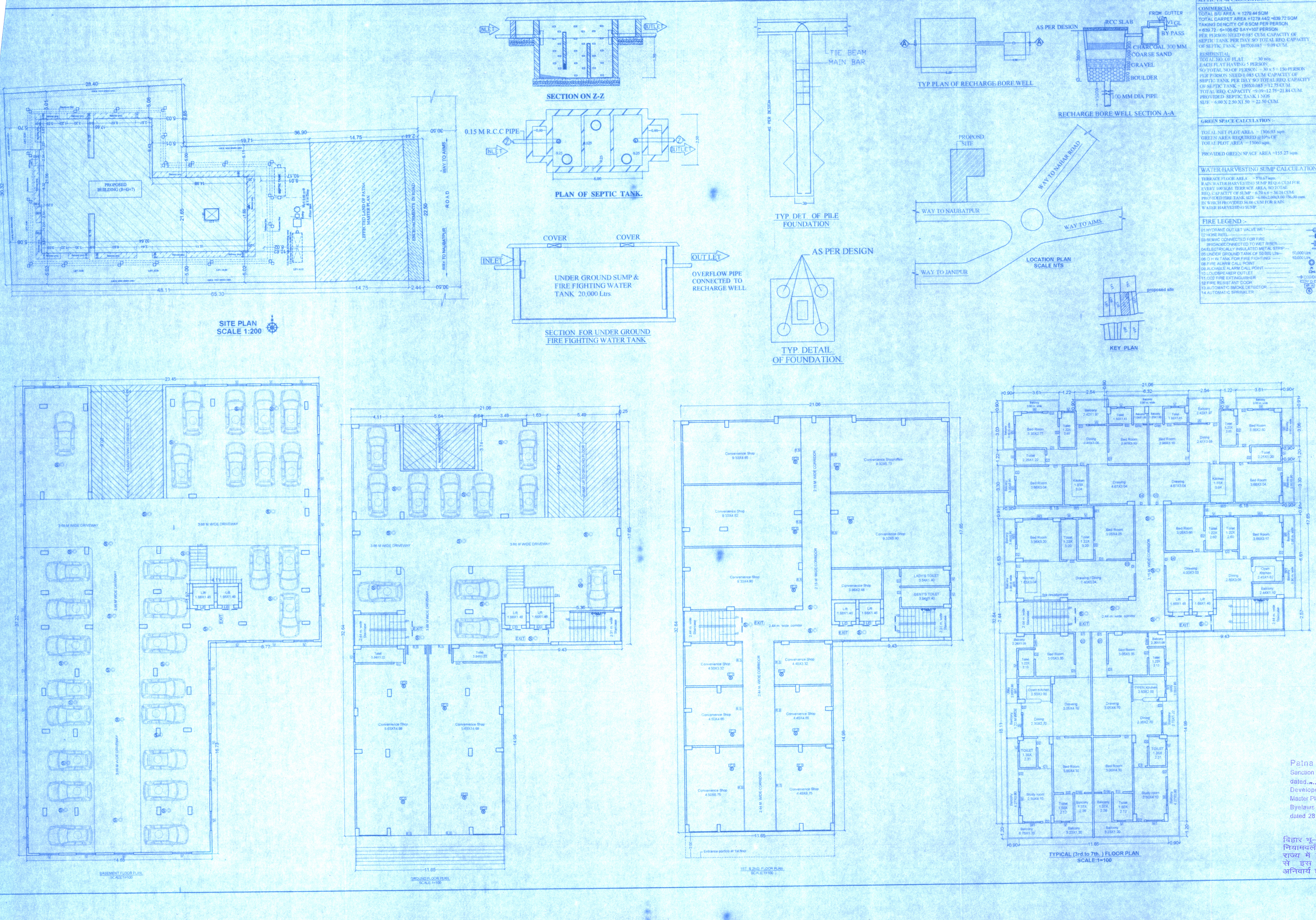


SEPTIC TANK CALCULATION :-

COMMERCIAL

TOTAL B/U AREA = 1279.44 SQM
TOTAL CARPET AREA =1279.44/2 =639.72 SQM
TAKING DENCITY OF 6 SQM PER PERSON
= 639.72 / 6=106.62 SAY=107 PERSON
PER PERSON NEED 0.085 CUM. CAPACITY OF SEPTIC TANK PER DAY SO TOTAL REQ. CAPACITY OF SEPTIC TANK = 107X0.085 = 9.09 CUM.

RESIDENTIAL

TOTAL NO. OF FLAT = 30 nos.
EACH FLAT HAVING 5 PERSON
SO TOTAL NO OF PERSON = 30 x 5 = 150 PERSON
PER PERSON NEED 0.085 CUM. CAPACITY OF SEPTIC TANK PER DAY SO TOTAL REQ. CAPACITY OF SEPTIC TANK = 150X0.085 = 12.75 CUM.
TOTAL REQ. CAPACITY =9.09+12.75=21.84 CUM.
PROVIDED SEPTIC TANK 1 NOS
SIZE = 6.00 X 2.50 X1.50 = 22.50 CUM.

GREEN SPACE CALCULATION :-

TOTAL NET PLOT AREA = 1306.03 sqm.
GREEN AREA REQUIRED @10% OF
TOTAL PLOT AREA = 13060 sqm.

PROVIDED GREEN SPACE AREA =155.27 sqm.

WATER HARVESTING SUMP CALCULATION :-

TERRACE FLOOR AREA = 570.67 sqm.
RAIN WATER HARVESTING SUMP REQ. 6 CUM FOR EVERY 100 SQM. TERRACE AREA. SO TOTAL REQ. CAPACITY OF SUMP = 6.70 x 6 = 34.24 CUM.
PROVIDED FIRE TANK SIZE =6.00x2.00x3.00 =36.00 cum.
IN WHICH PROVIDED 36.00 CUM FOR RAIN WATER HARVESTING SUMP.

FIRE LEGEND :-

01 HYDRANT OUT LET VALVE WET
02 HOSE REEL
03 SEMAC CONNECTED FOR FIRE BRIGADECONNECTED TO WET RISER
04 ELECTRICALLY INSULATED METAL STRIP
05 UNDER GROUND TANK OF 50,000 Ltrs — 50,000 Ltrs
06 O.H.W.TANK FOR FIRE FIGHTING — 10,000 Ltrs
08 FIRE ALARM CALL POINT
09 AUDIABLE ALARM CALL POINT
10 LOUDSPEAKER OUTLET
11 CO2 FIRE EXTINGUISHER — CO2/DCP
12 FIRE RESISTANT DOOR — F.D.
13 AUTOMATIC SMOKE DETECTOR
14 AUTOMATIC SPRINKLER

SCHEDULE OF DOORS & WINDOWS — 1/2

TYPE	WIDTH	HEIGHT	SILL	LINTEL	DESCRIPTION
D	1.07	2.13	0.0	2.13	Single Leaf Door
D1	0.99	2.13	0.0	2.13	Single Leaf Door
D2	0.91	2.13	0.0	2.13	Single Leaf Door
D3	0.76	2.13	0.0	2.13	Single Leaf Door
W	1.37	1.78	0.76	2.54	Glazed window
W1	1.22	1.78	0.76	2.54	Glazed window
W2	0.91	1.63	0.91	2.54	Ventilator
V	0.46	0.61	1.52	2.13	Ventilator
DW	0.65xAs/size	2.54x1.83	0.0x0.76	2.54	Door & Windows

AREA CALCULATION :-

TOTAL PLOT AREA AS/ DEED	=1726.86 sqm.
TOTAL PLOT AREA AS/ SITE	=1692.40 sqm.
ENCROACHMENT IN ROAD AREA	= 54.50 sqm.
EFFECTED LAND OF MASTER PLAN	= 331.87 sqm.
NET PLOT AREA	= 1306.03 sqm.
BASEMENT FLOOR B/U AREA	= 19.30 sqm.
GROUND FLOOR B/U AREA	= 227.82 sqm.
1ST. FLOOR B/U AREA	=525.81 sqm
2ND. FLOOR B/U AREA	= 525.81 sqm.
3RD.FLOOR B/U AREA	= 534.21 sqm.
4TH.FLOOR B/U AREA	= 534.21 sqm.
5TH FLOOR B/U AREA	= 534.21 SQM.
6TH. FLOOR B/U AREA	= 534.21 SQM.
7TH. FLOOR B/U AREA	= 534.21 SQM.
TOTAL ALL FLOOR B/U AREA	= 3969.79 sqm.

F.A.R. = 3969.79/1306.03 = 3.039

PARKING CALCULATION :-

COMMERCIAL
TOTAL B/U AREA ALL FLOOR =1279.44 SQM.
PARKING AREA REQ. @30% OF B/U AREA.
SO TOTAL PARKING AREA REQ.
= 1279.44 X 30% = 383.83 SQM.

RESIDENTIAL
TOTAL B/U AREA ALL FLOOR = 2840.35 sqm.
PARKING AREA REQ. @ 25% OF B/U AREA.
SO TOTAL PARKING AREA REQ.
= 2690.35X 25% = 672.58 sqm.

TOTAL REQ PARKING AREA=(COMM.+RESI.)
672.58+383.83=1056.41.87 SQM
PROVIDED BASEMENT PARKING ARE=703.64 sqm
PROVIDE GROUND FLOOR PARKING = 353.63 sqm
TOTAL PARKING AREA =1057.27 sqm
(PROVIDED)

WATER TANK CALCULATION :-

COMMERCIAL

TOTAL B/U AREA = 1279.44 SQM
TOTAL CARPET AREA =1279.44/2 =639.72 SQM
TAKING DENCITY OF 6 SQM PER PERSON
= 639.72 / 6=106.62 SAY=107 PERSON
EACH PERSON NEED 45 LTRS. PER DAY
= 107 X 45 = 4815.00 LTRS. (REQ)

RESIDENTIAL

TOTAL NO. OF FLAT = 30 nos.
EACH FLAT HAVING 5 PERSON
SO TOTAL NO OF PERSON = 30 x 5 = 150 PERSON
PER PERSON NEED 135 Ltrs PER DAY
TOTAL PERSON NEED = 150x135 = 20,250.00 Ltrs.

& EXTRA TAKE FOR FIRE FIGHTING = 10,000 Ltrs
TOTAL WATER TANK REQUIRED = 4,815+20,250+25,000 = 50,065 Ltrs.
PROVIDED WATER TANK 2 NOS.SIZE
(1.)7.86X4.50X0.90 = 31,830.00 Ltrs
(1.)5.11X5.01X0.90 = 23,040.00 LTRS.
TOTAL = 54,870.00 LTRS.
(PROVIDED)

PLOT DETAIL:-

PROPOSED BUILDING OF
KUMAR KARTIKEY CONST. PVT. LTD.
& BAIDHNATH CONST.PVT. LTD.
DIRECTOR : SRI. ANIL KUMAR SINGH,
S/O SRI. LAKHAN DEO PRASAD.& OTHERS
ON S.PLOT NO.-136 &137, THANA NO. -40 ,
KHATA NO. - 31&43,
AT MAUZA - BHUSAULA DANAPUR ,
THANA -PHULWARISHARIF , DISTT. - PATNA

SCALE	NORTH
1 : 100 1 : 200	

Er. MANOJ KUMAR
(Structural Engineer)
License No. : SE/04/16
Patna Municipal Corporation

Anil Kumar Singh
SIGNATURE OF BUILDER / DEVELOPER

A.K. Umashankar Kumar
Registered Architect
Reg. No.-CA/2011/54023
SIGN. OF EMPANELED ARCHITECT

31.05.19
सहायक अभियंता
पटना महानगर क्षेत्र प्राधिकार

4-6-2019
प्रभारी निदेशक
पटना महानगर क्षेत्र प्राधिकार

Patna Metropolitan Area Authority
Sanction of Plan case no- P.M.A.A/P.C.R.N/BHUSAULA DANAPUR PHULWARISHARIF/01077/03/19 dated 02.03.2019 accorded under Development Control Regulations for Patna Master Plan 2031 (Byelaws no 8(4) of Bihar Building Byelaws 2014) vide notification no 831/832 dated 28.10.2016 on Date 15.05.2019

बिहार भू–सम्पदा (विनियमन विकास) नियामवली, 2017 की शर्तो के अधीन राज्य में गठित विनियमन प्राधिकरण से इस परियोजना का निबंधन अनिवार्य होगा।