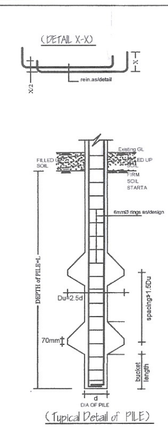
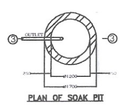


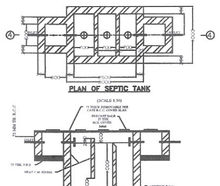
DETAIL OF RAIN WATER HARVESTING SYSTEM



(Typical Detail of PILE)



PLAN OF SOAK PIT



TOTAL COMMERCIAL AREA OF BUILDING= 328.46 SQM.
TOTAL NO. OF PERSONS @ 6 SQM/PERSON =328.46 /6=54.74
APPROXIMATE PERSONS =55.00
REQ. OF WATER PER PERSON = 45 LTR./DAY
TOTAL REQ. WATER = 55X 45 =2475 TR./DAY ---- (A)
RESIDENTIAL (1st to 4th FLOOR)
TOTAL NO OF FLAT = 12
NO OF PERSON IN ONE FLAT =06 ~12x06~72 persons
ONE PERSON REQU. WATER = 135 LTR./DAY.
TOTAL REQU. WATER =72X 135 =9180.00 LTR./DAY.----(B)
TOTAL REQU. WATER(A+B) = 8370+1350=9720.00 LTR./DAY
TOTAL REQU. AREA OF WATER TANK =12150 QU.M.
EXTRA FOR FIRE FIGHTING =25000 LIT =25CUM.
12.195+ 25.00 =37.195 CUM.
PROVIDE VOLUME OF WATER TANK
SIZE:-3.0X3.0X3.0 FIt=27.000 QUM 02 Nos.

SEPTIC TANK CALCULATION

TOTAL COMMERCIAL AREA OF BUILDING=328.46 SQM.
TOTAL NO. OF PERSONS @ 6 SQM/PERSON =328.46 /6=54.74
APPROXIMATE PERSONS =55.00
PERSON REQ. AREA = 0.027CUM./DAY
TOTAL REQ. VOL. =55 X 0.027 =1.485 CUM./DAY ---- (A)
RESIDENTIAL (1st to 4th FLOOR)
TOTAL NO OF FLAT = 12
NO OF PERSON IN ONE FLAT =06 ~12x06~72 persons
PERSON REQ. AREA = 0.085CUM./DAY
TOTAL REQ. VOL. =72 X 0.085 =6.12CUM./DAY ---(B)
TOTAL REQU. SEPTIC TANK(A+B) =1.485+6.12=7.605 CUM./DAY
TOTAL REQU. AREA OF WATER TANK =7.60 QU.M.
PROVIDE AREA OF SPTIC TANK
(SQ.L)=4.0X3.0X2.0= 30 FIT
TOTAL AREA OF SPTIC TANK= 24.00 QUM

RAIN WATER CALCULATION

ROOF AREA OF BUILDING= 332.10 SQ.M.
SO REQ. VOL.OF RECHARGE PIT= 332.10/100 X6 CUM
=19.92 cum.
PROVIDED TRENCH (0.6M WIDE & 0.5M DEEP)VOL. =22.00CUM

PARKING AREA CALCULATION

TOTAL COMMERCIAL AREA = 328.46 SQ.M.
REQUIRED PARKING AREA = 328.46X30% = 98.53 SQ.M.

TOTAL RESIDENTIAL AREA =1328.40 SQ.M.(1ST TO 4TH FLOOR)
REQUIRED PARKING AREA =1328.40X25% = 332.10 SQ.M.
TOTAL REQUIRED (COMMERCIAL + RESIDENTIAL) PARKING AREA = 98.53+332.10= 430.63 SQM.

WE PROVIDED - ON BASEMENT FLOOR -331.70 SQ.M.(COVER)
OPEN PARKING =100.00 SQM.
TOTAL PARKING =431.70 SQM.

WATER HARVESTING THROUGH STORING OF RAIN WATER RUN OFF

* SYSTEM OF STORM WATER DRAINAGE ALONG WITH POINT OF RAIN WATER IN SURFACE RECHARGE WELL PROVIDED.
* SEPARATE OVER HEAD WATER TANK FOR FEEDING W.C.'S URINALS STORM WATER RECHARGE WELLS PROVIDED.

DESIGN OF UNDER GROUND WATER TANK

REQUIRED CAPACITY - 50,000 LTS.
SIZE OF U. G. W. T. = 3.0X2.0X1.5 = 9.0 CU. M.

ADDITIONAL WATER TANK 50,000 LTR. FOR FIRE FIGHTING

FIRE LEGEND

1) FIRE RESISTANT CHECK DOOR ——— —FD—
2) FIRE HYDRANT ——————— —W—
3) HOSE REEL ——————— —H—
4) UNDER GROUND WATER STATIC TANK WITH - AUTOMATIC REFILLING ARRANGEMENT FOR FIRE-FIGHTING. ———— 50,000
5) FIRE EXTINGUISHER & (WCO2 TYPE ISI MARKED) ——————
6) MANUAL CALL POINT ——
7) ILLUMINATED EXIT DIRECTIONAL SIGN ——
8) SIAMESE CONNECTION ——————
9) P.A SYSTEM ——————
10) EMERGENCY LIGHTING SYSTEM ——
11) SPRINKALER SYSTEM ——

NOTE :-
CERTIFICATE :-
THIS IS TO CERTIFY THAT STRUCTURAL DESIGN OF THIS BUILDING WILL BE AS PER IS 1893-1984 & IS 4326-1993.TO MAKE THE SAME EARTH QUAKE RESISTANT .

SPECIFICATION

1. R.C.C UNDER REMMED PILE FOUNDATION AS PER DETAIL GIVEN IN THIS DRAWING.
2. 1ST CLASS BRICK WORK IN CEMENT MORTER(1:6) IN SUPER STRUCTURE.
3. HEIGHT OF PLINTH FLOOR AREA SHOWN IN SECTION.
4. 0.03 I.P.S. FLOORING OVER 0.75 DRY REMMED KHOA OVER FLAT BRICK SOLING OVER LOCAL SAND FILLING.
5. 0.050 TH D.P.C. ON P.L. ALL ROUND THE BUILDING.
6. 0.110 TH LIME CONCRETE OVER 0.100TH R.C.C. SLAB.
7. 0.15TH R.C.C. BAND AT DOORS & WINDOWS OPENINGS.
8. 0.12 CEMENT PLASTER ON BOTH SIDE OF WALL.
9. WHITE & COLOUR WASH AS PER CHOICE.

SCHEDULE OF DOORS & WINDOWS

SL.NO.	TYPE	WIDTH	SILL.	HEIGHT
1.	D	1.06	0.00	2.13
2.	D1	0.91	0.00	2.13
3.	D2	0.76	0.00	2.13
4.	W1	1.37	0.76	1.53
5.	W2	0.90	0.90	1.53
6.	W3	0.60	1.53	1.22

AREA STATEMENT

TOTAL PLOT AREA AS/DEED = 1093.02 SQM
TOTAL PLOT AREA AS/SITE = 673.23 SQM

BASEMENT FLOOR B/U AREA= 14.68 SQM
GROUND FLOOR B/U AREA = 328.46 SQM
1ST FLOOR B/U AREA = 332.10 SQM
2ND FLOOR B/U AREA = 332.10 SQM
3RD FLOOR B/U AREA = 332.10 SQM
4TH FLOOR B/U AREA = 332.10 SQM

TOTAL FLOOR B/U AREA = 1671.54 SQM.

F.A.R.= 2.48

PROPOSED COMMERCIAL CUM RESIDENTIAL BUILDING
GHARAUNDA BUILDCON PVT. LTD.
M.Director :- SRI GOPAL SHARAN BHARTIA ,S/O SRI SADHU SHARAN
AT.- ON PLOT NO.-1122 (NEW), THANA NO.-334, KHATA NO.-107 (NEW), VILL.- KALER, THANA-MAGADH
MEDICAL COLLEGE,WARD NO.-29, GAYA, DIST-GAYA

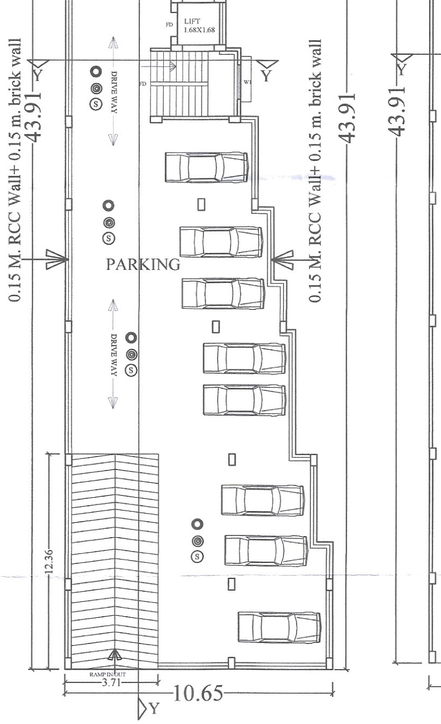
BOUNDARY :-
NORTH- CHINTA DEVI,
SOUTH- TOTA GOP,
EAST- HARIJAN TOLA &
WEST- ROAD

NORTH | SCALE 1:100 1:200 | SHEET NO.-01

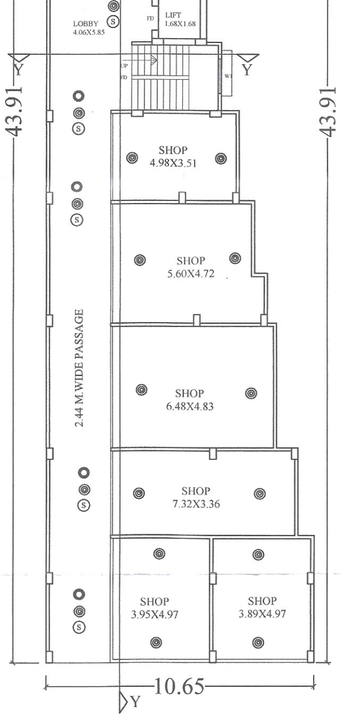
ER. PREM NATH SAJJAN
L.No.- E9/2016-17
Gaya Nagar Nigam, Gaya
SIGN. OF STR. ENGG.

FOR DEVELOPER SIGNATURE
BEHALF OF LAND OWNER'S SIGNATURE.

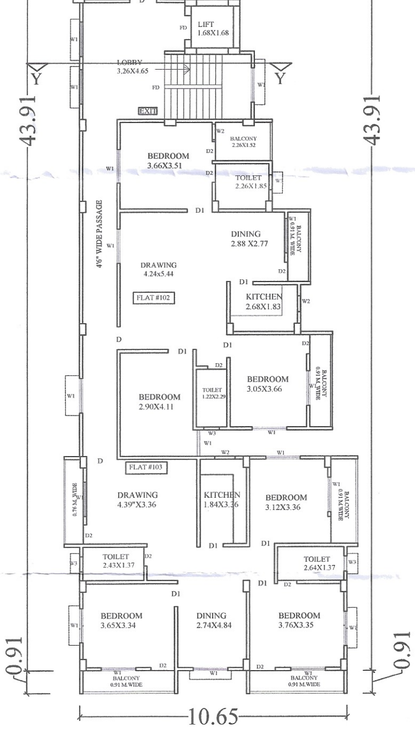
Manoj Kumar
(Architect)
Gaya Empanelment No. A-14/2016-18
SIGN. OF ARCH.



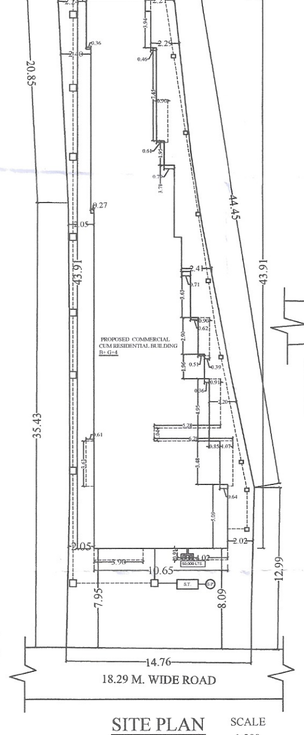
BASEMENT FLOOR PLAN



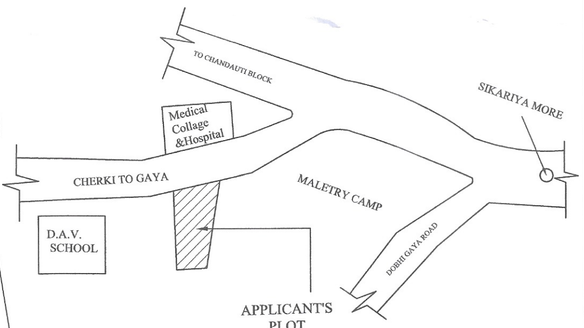
GROUND FLOOR PLAN



TYPICAL FLOOR PLAN



SITE PLAN SCALE 1:200



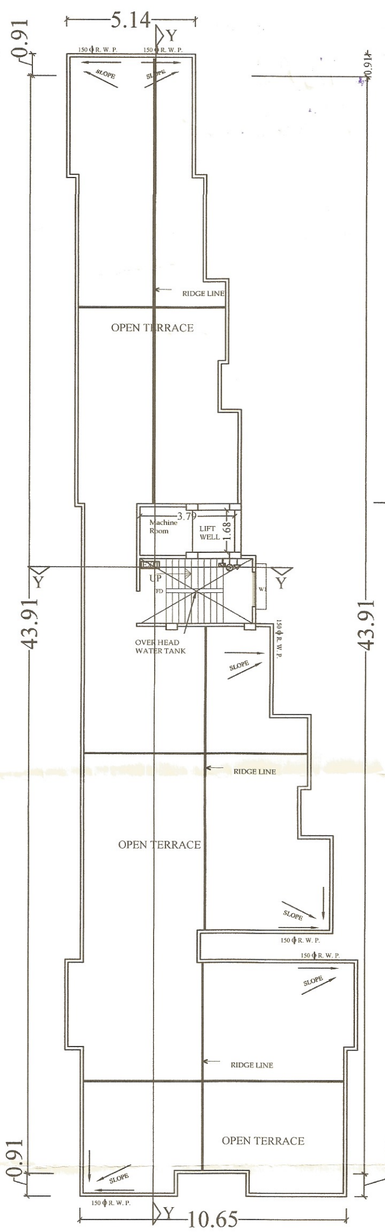
LOCATION PLAN SCALE NTS

गया नगर निगम
गया

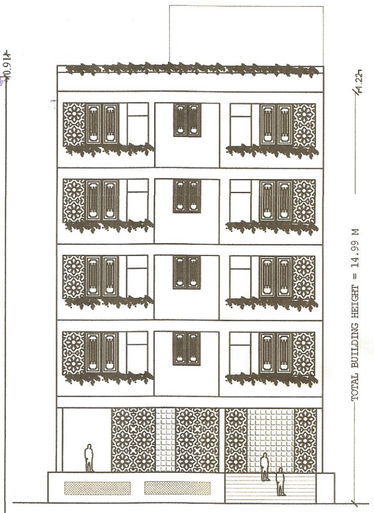
नक्सा स्वीकृति की मान्यता तीन वर्ष तक रहेगी

गया नगर निगम, गया
का मुकदमा नं० 125/20-21
बिहार नगरपालिका अधिनियम 2007 के
धारा 314 के अन्तर्गत स्वीकृत किया गया।

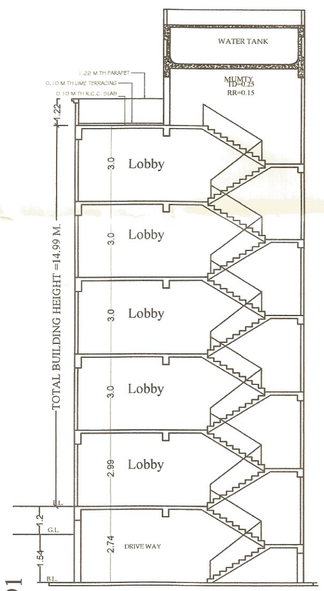
नगर आयुक्त
गया नगर निगम, गया



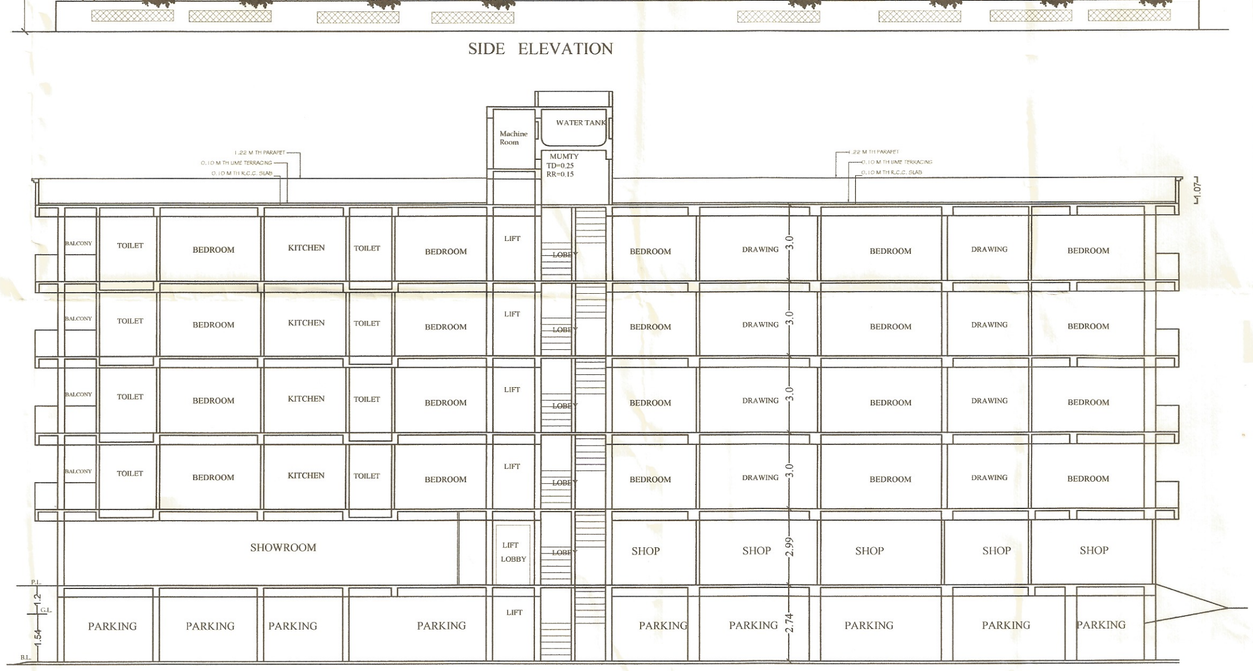
TERRACE FLOOR PLAN







SECTION AT -X-X



SECTION AT -Y-Y

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NORTH

SCALE 1:100 1:200

SHEET NO.-02

Ex. PREM NATH SAJJAN
L.No.- E9/2016-17
Gaya Nagar Nigam, Gaya

SIGN. OF STR. ENGG.

SIGN. OF OWNER

Manoj Kumar
(Architect)
Gaya Empowerment No.
A-14/2015-18

SIGN. OF ARCH.

गया नगर निगम
गया

नक्शा स्वीकृति की मान्यता तीन वर्ष तक रहेगी

गया नगर निगम, गया
का मुकदमा नं० 125/20-21
बिहार नगरपालिका अधिनियम 2[illegible] के
धारा 314 के अन्तर्गत स्वीकृत किया जाता

नगर आयुक्त
गया नगर निगम, गया