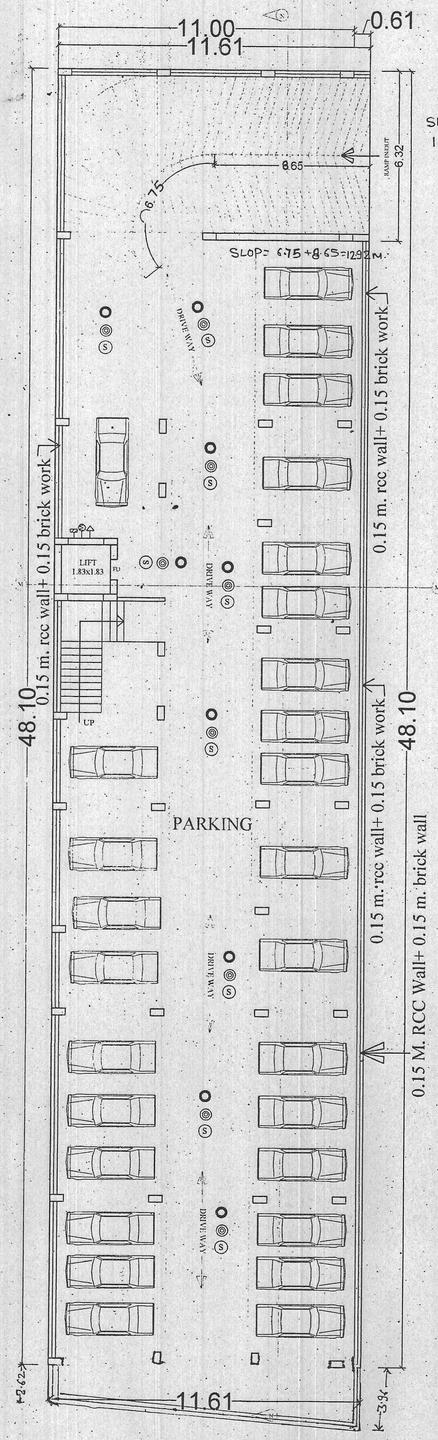
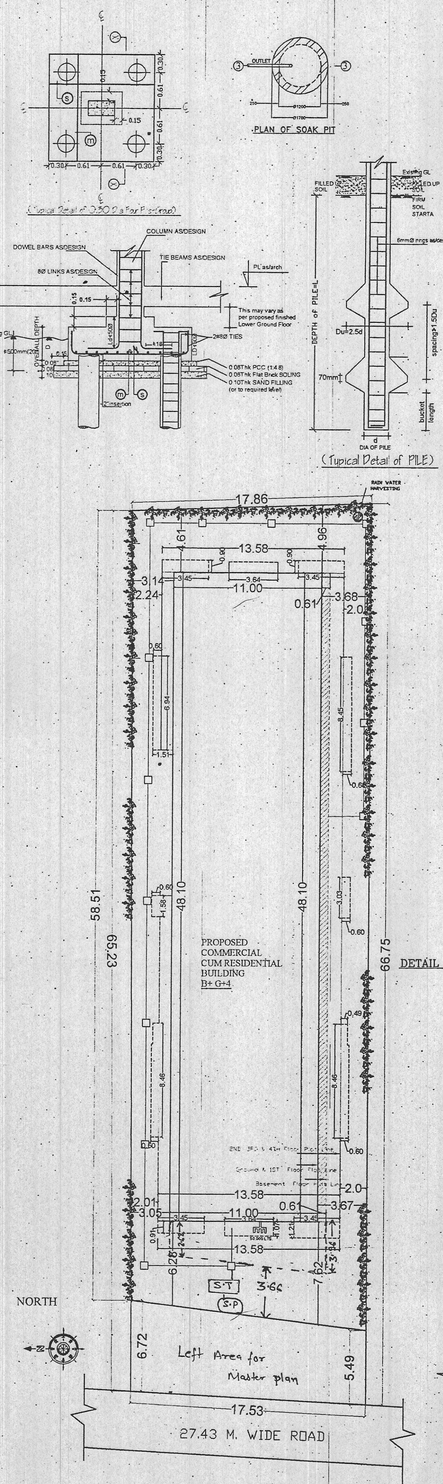




TOTAL COMMERCIAL AREA OF BUILDING= 1013 SQM.
TOTAL NO. OF PERSONS @ 6 SQM/PERSON = 1013 /6=60.78
APPROXIMATE PERSONS =61.00
REQ. OF WATER PER PERSON = 45 LTR./DAY
TOTAL REQ. WATER = 61X 45 =2745 TR./DAY — (A)
RESIDENTIAL (2nd to 4th FLOOR.)
TOTAL NO OF FLAT =21
NO OF PERSON IN ONE FLAT =06 =21x06=126 persons
ONE PERSON REQU. WATER = 135 LTR./DAY
TOTAL REQU. WATER =126 X 135 =17010 LTR./DAY—(B)
TOTAL REQU. WATER(A+B) =2745+17010 =19755.00 LTR./DAY
TOTAL REQU. AREA OF WATER TANK =19.75 QU.M.
EXTRA FOR FIRE FIGHTING =50000 LIT.=50CUM.
19.75+ 50.00 =69.75 CUM.
PROVIDE VOLUME OF WATER TANK
SIZE,=4.0X3.0X3.0 EB=36.000 QUM 02 Nos.

SEPTIC TANK CALCULATION

TOTAL COMMERCIAL AREA OF BUILDING= 1013 SQM.
TOTAL NO. OF PERSONS @ 6 SQM/PERSON = 1013 /6=60.78
APPROXIMATE PERSONS =61.00
PERSON REQ. AREA = 0.027CUM./DAY
TOTAL REQ. VOL. =61 X 0.027 = 1.64 CUM./DAY — (A)
RESIDENTIAL (2ND to 4th FLOOR.)
TOTAL NO OF FLAT =21
NO OF PERSON IN ONE FLAT =06 =21x06=126 persons
PERSON REQ. AREA = 0.085CUM./DAY
TOTAL REQ. VOL. =126 X 0.085 =10.71CUM./DAY —(B).
TOTAL REQU. SEPTIC TANK(A+B) =1.64~10.71=12.35 CUM./DAY
TOTAL REQU. AREA OF WATER TANK =12.35 QU.M.
PROVIDE AREA OF SEPTIC TANK=
(SIZE),=4.0X3.0X2.0= 30 EB
TOTAL AREA OF SEPTIC TANK= 24.00 QUM

RAIN WATER CALCULATION

ROOF AREA OF BUILDING= 645.72 SQ.M.
SO REQ. VOL.OF RECHARGE PIT= 645.72/100 X6 CUM
=38.74 cum.
PROVIDED TRENCH (0.8M WIDE & 0.5M DEEP)VOL.
=22.00CUM

PARKING AREA CALCULATION

TOTAL COMMERCIAL AREA = 1013.00 SQ.M. (G+F.F.S+S.F.)
REQUIRED PARKING AREA = 1013X30%= 303.90 SQ.M.

TOTAL RESIDENTIAL AREA = 1937.16 SQ.M.(2ND TO 4TH FLOOR)
REQUIRED PARKING AREA = 1937.16X25%= 484.29 SQ.M.
TOTAL REQUIRED (COMMERCIAL + RESIDENTIAL) PARKING AREA =
303.90+484.29= 788.19 SQM.

WE PROVIDED - ON BASEMENT FLOOR = 531.17 SQ.M.(COVER)
OPEN PARKING = 200.00 SQM.
TOTAL PARKING = 731.17 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 ——— HR
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 ——— S

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

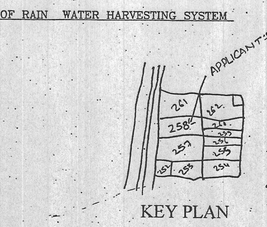
TOTAL PLOT AREA AS/DEED = 1212.36 SQM
TOTAL PLOT AREA AS/SITE = 1167.05 SQM
Left Area For Master Plan Road Widening = 107.02 SQM.
NET PLOT AREA = 1060.03 SQM.
BASEMENT FLOOR B/U AREA = 5.46 SQM
GROUND FLOOR B/U AREA = 488.84 SQM.
1ST FLOOR B/U AREA = 524.16 SQM
2ND FLOOR B/U AREA = 645.72 SQM
3RD FLOOR B/U AREA = 645.72 SQM
4TH FLOOR B/U AREA = 645.72 SQM

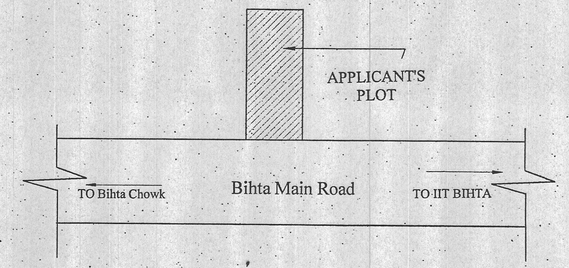
TOTAL FLOOR B/U AREA = 2955.62 SQM.

F.A.R.= 2.78

PROPOSED COMMERCIAL CUM RESIDENTIAL BUILDING
M/S KISHAN TRADERS, Proprietor :-
SMT. GURIYA KUMARI, W/O SRI BIPUL KUMAR
AT.- ON S. PLOT NO.-258,
THANA NO.-45, KHATA NO.-268,
TAUZI NO.- 3020, THANA- BIHTA,
MAUZA- RAGHOPUR (RAM NAGAR),
MANER, BIHTA, DIST.- PATNA

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





LOCATION PLAN SCALE NTS

Er. Vijay Kumar
Structure Engineer
Enrl.No-SE/08/16/PMC
SIGN OF STR. ENGG.

KISHAN TRADERS
गुरिया कुमारी
PROPRIETOR
FOR DEVELOPER SIGNATURE
BEHALF OF LAND OWNER'S SIGNATURE.

Manoj Kumar
Architect
Patna Municipal Corporation
Empanelment No-AR.71/16
SIGN. OF ARCH.

ग्राम पंचायत
राघोपुर, बिडटा
21/11/2016