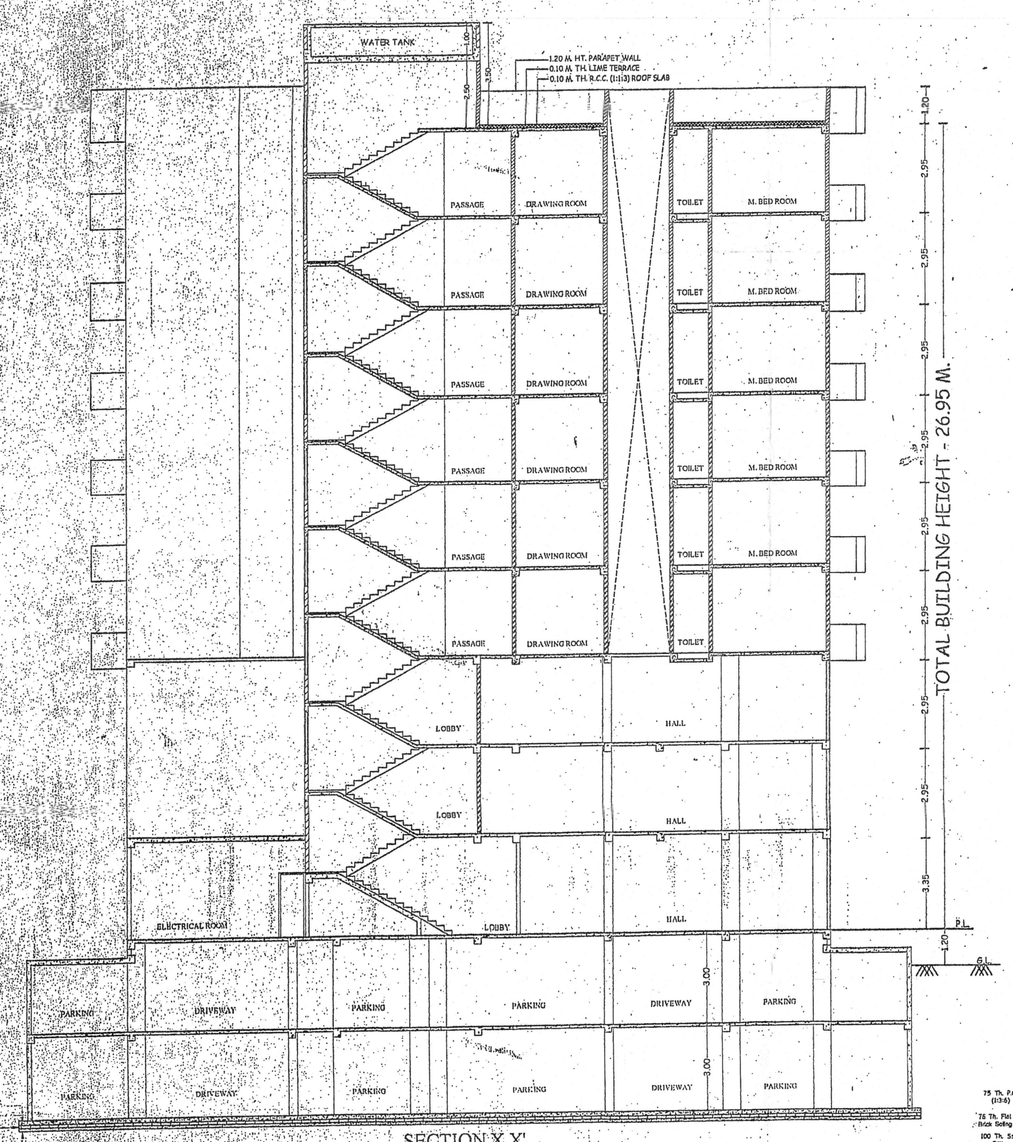
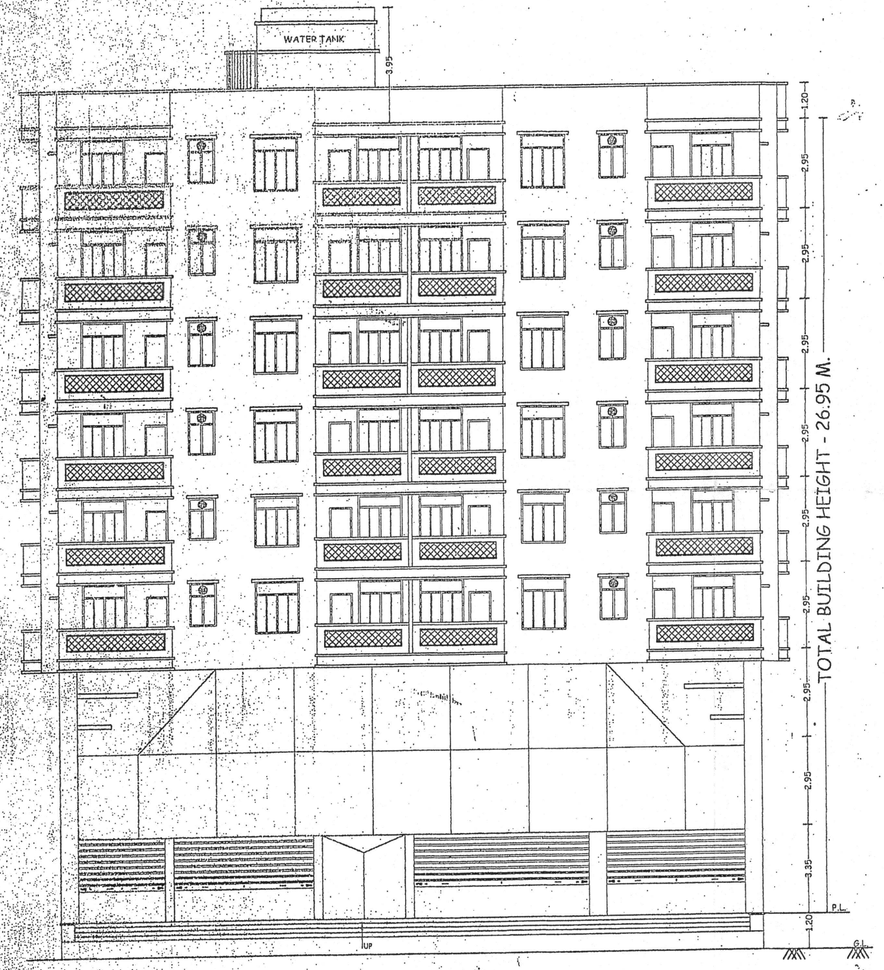


SECTION X X'
SCALE - 1:100



SECTION Y Y'
(SCALE - 1:100)



FRONT ELEVATION
(SCALE - 1:100)



SIDE ELEVATION
(SCALE - 1:100)

SPECIFICATION

(1) FOUNDATTION : - R C C PILE FOUNDATION.
(2) SUPER STRUCATURE : - 1st CLASS BRICK WORK IN CEMENT MOTER 1:6.
(3) FLOORING : - .025 TH I. P.S FLOORING OVER .15 DRY RAMMED KHOA OVER . ONE LAYER BRIK FLAT SOLING . OVER LOCAL SAND FILLING.
(4) R C C. WORK : - SLAB, LINTEL , STAIR, BEAM & CHAJJA IN 1:1-1/2 :3 WITH PROPER REIN FOR CEMENT.
(5) TERRACING- .10TH AVERAGE LIME TERRACING OVER .10 TH R C C ROOF SLAB
(6) PLASTER : - .012 TH CEMENT PLASTER ON BOTH SIDE WALL & .015 CEMENT PLASTER ON CELING .
(7) DRAIN : - 18 CM. WIDE & 30 CM. DEEP PUCCA DRAIN ROUND IN THE BUILDING .
(8) COLOUR : - AS PER CHOICE .

:- FIRE LEGEND :-

1.	UNDER GROUND WATER TANK OF 20000 LTRS. CAP.	20,000 LTRS.
2.	FIRE RESISTANCE DOOR	FD
3.	FIRE HYDRANT SYSTEM	H
4.	HOSE REEL	H
5.	MANUAL CALL ALARM POINT	M
6.	FIRE EXTINGUISHER CO2 TYPE	
7.	ILLUMINATED EXIT DIRECTIONAL SIGN	EXIT
8.	SEAMESE CONNECTION	SYSTEM
9.	EMERGENCY LIGHTING SYSTEM	
10.	FIRE SPRINKLER	S
11.	SMOKE DETECTOR	A S A

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MAUZA - RANIPUR, PLOT NO.- 2445, 2446,
KHATA NO - 278, 102, TAUZI NO. - 15,
THANA NO - 19, P.S -KHAJEKALAN ,
DIST. - PATNA (BIHAR).

Shailesh Ranjan
ER. SHAILESH RANJAN
B.Sc. (Engg.) M.I.E.
Empanelment No.-ER/19/16
P.M.C., P.M.A.A., PATNA

Under Construction

SIGNATURE OF ARCH./ENG.

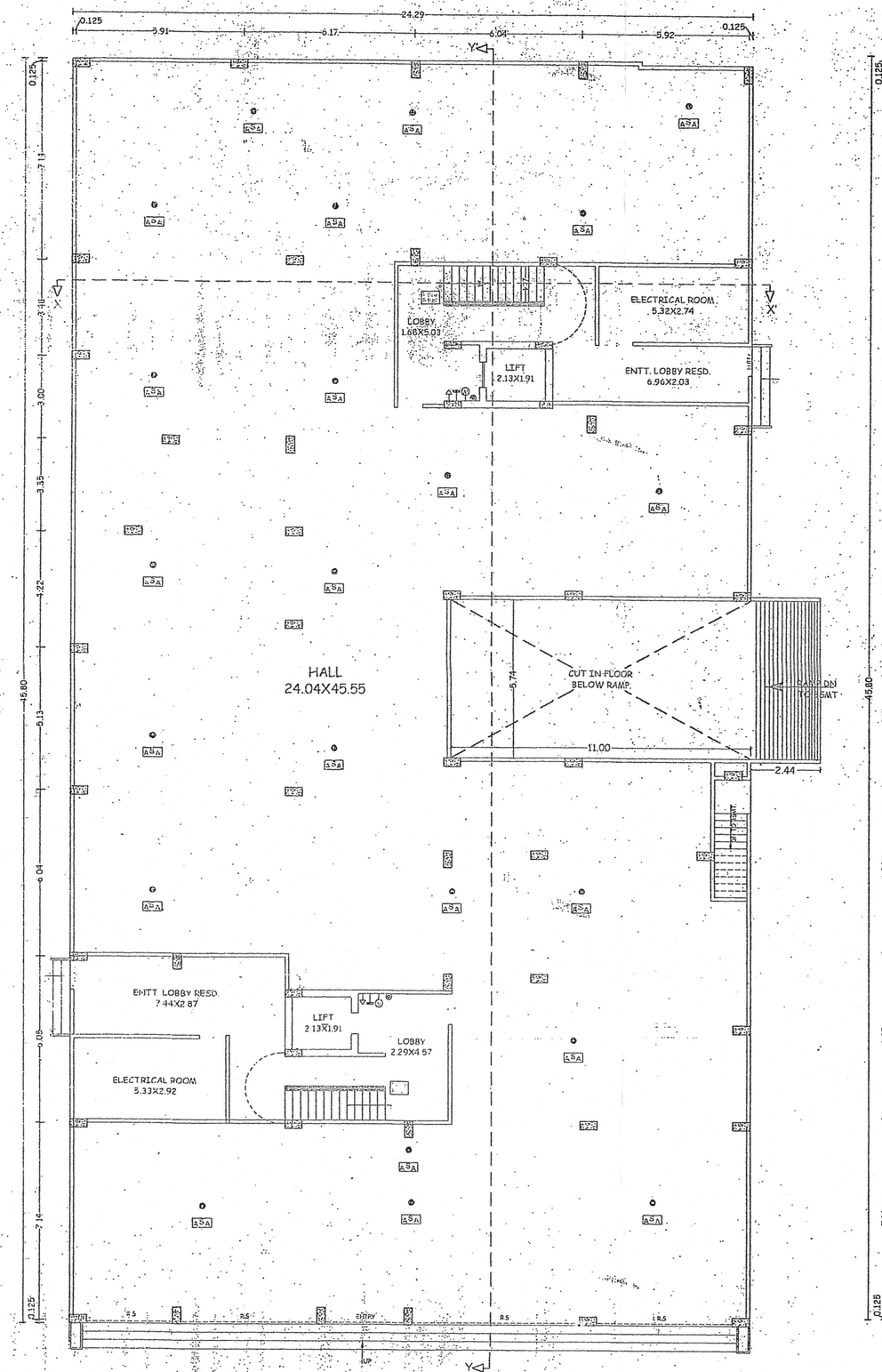
SIGNATURE OF OWNER

SIGNATURE OF STR. ENG.

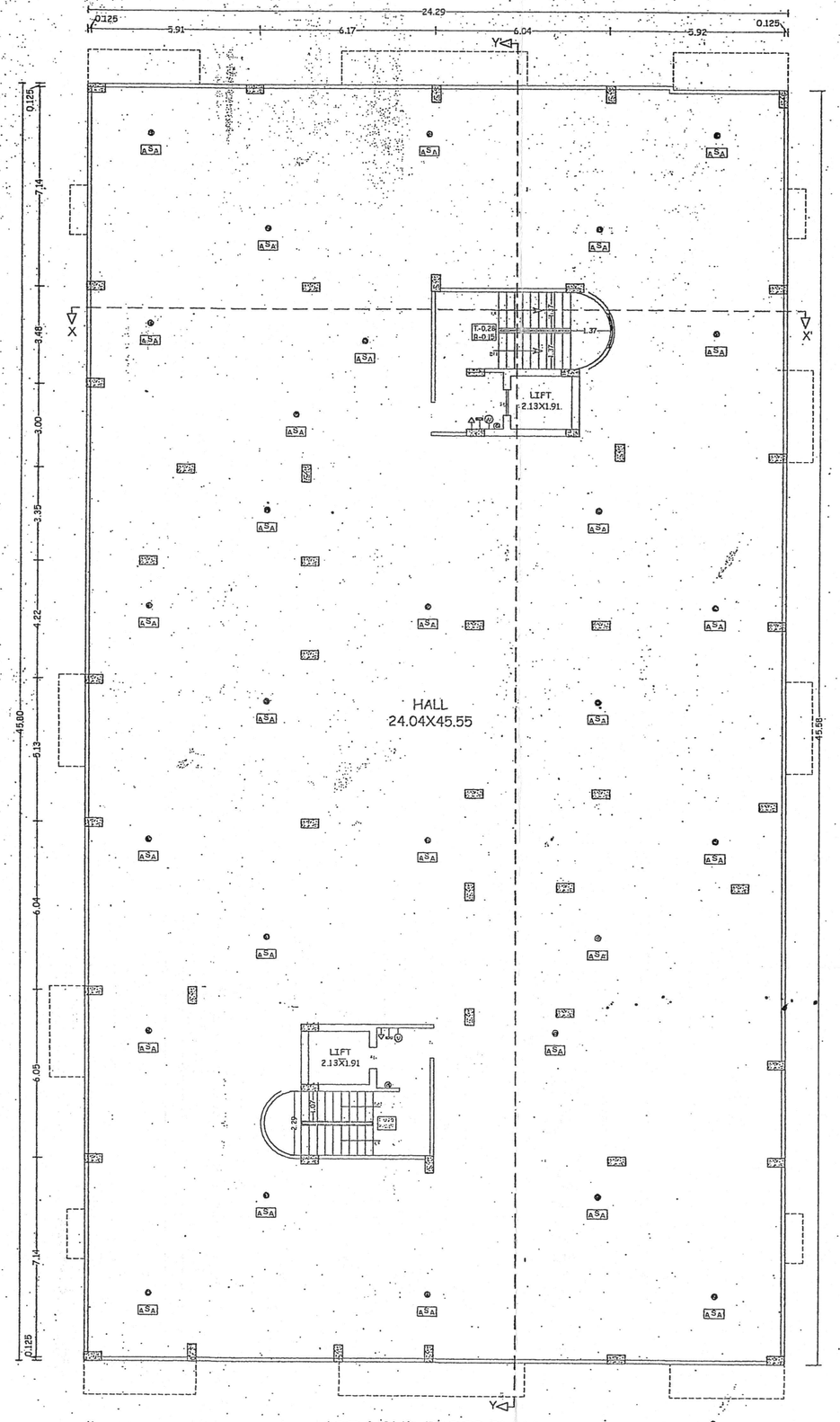
PATNA MUNICIPAL CORPORATION
PATNA REGIONAL DEVELOPMENT AUTHORITY (DISSOLVED)
Case No. PRN-2018/B7148/508 ...20..18
Sanction of Plan Accorded under Section 314, 315, 316 & 317 of the Bihar Municipal Act 2007 by the Municipal Commissioner, Patna on.....
Date... 9/07/18
• SANCTION OF PLAN ACCORDED

गुलाम रब्बानी
उप निदेशक
पटना नगर निगम

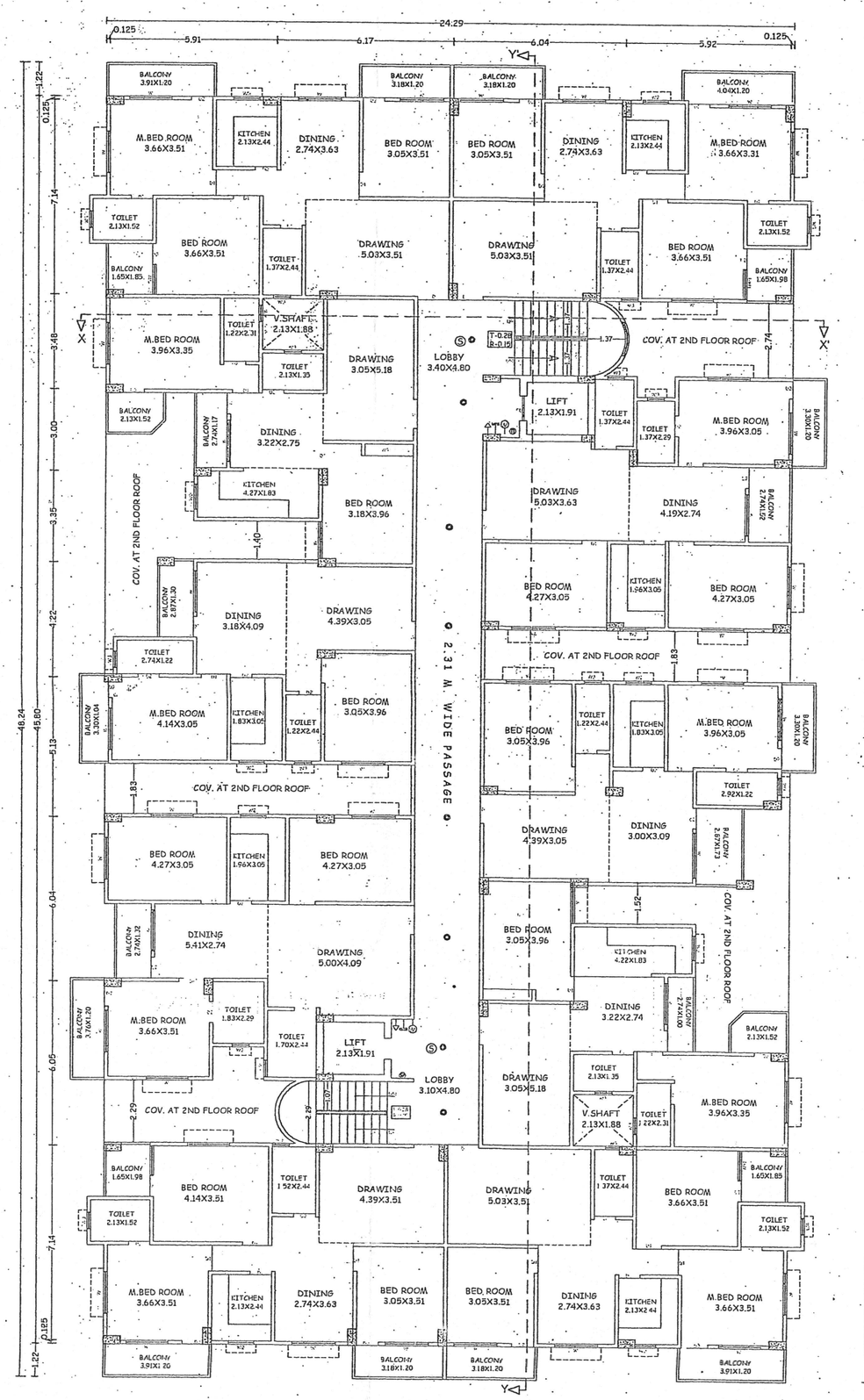
03/03



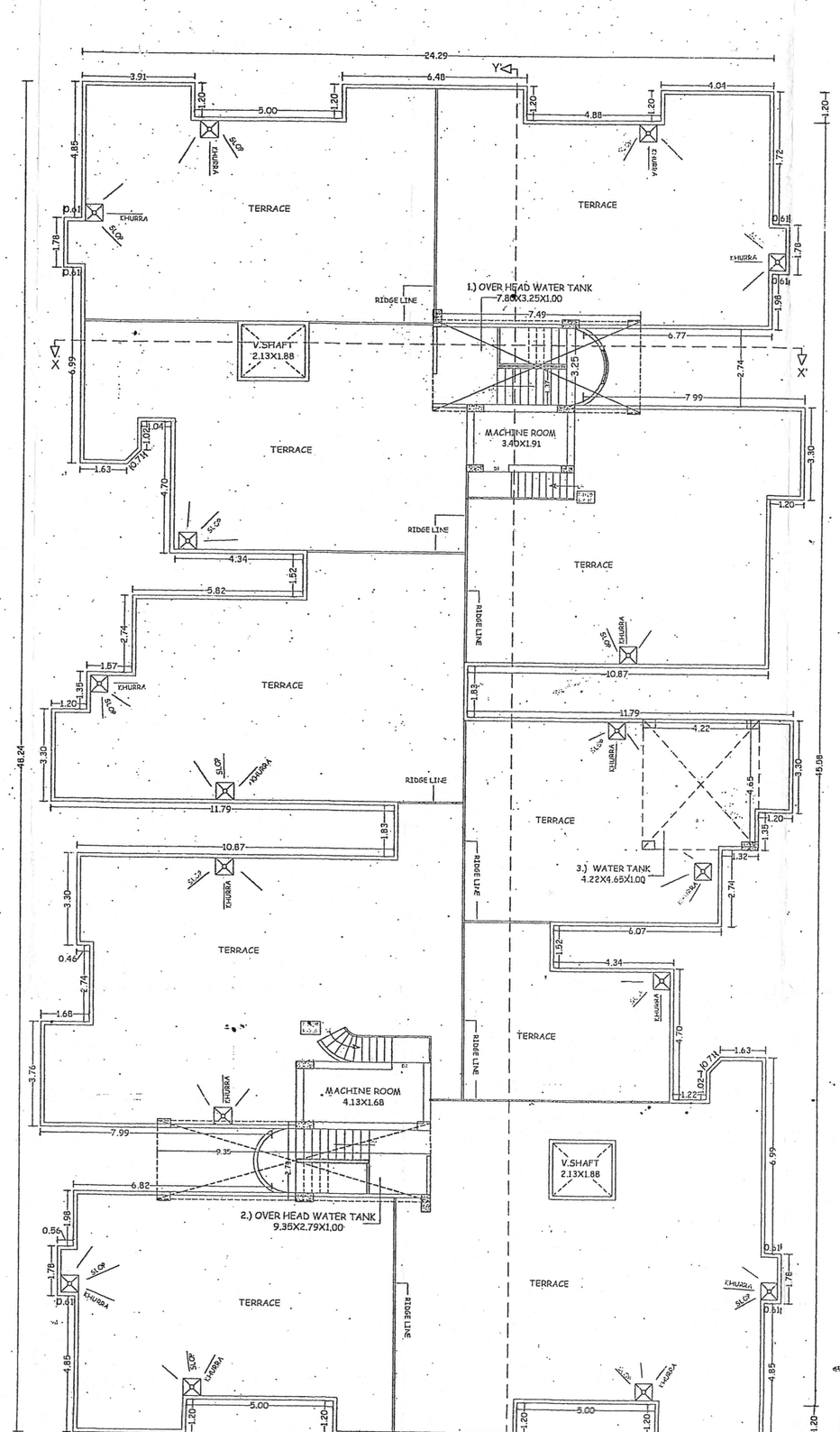
GROUND FLOOR PLAN
(SCALE - 1:100)



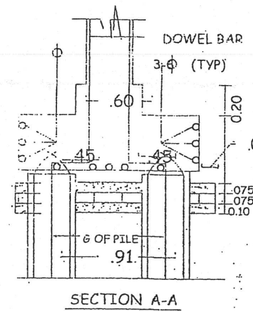
1ST & 2ND FLOOR PLAN
(SCALE - 1:100)



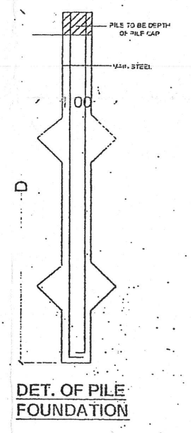
3RD. TO 8TH. FLOOR PLAN
(SCALE - 1:100)



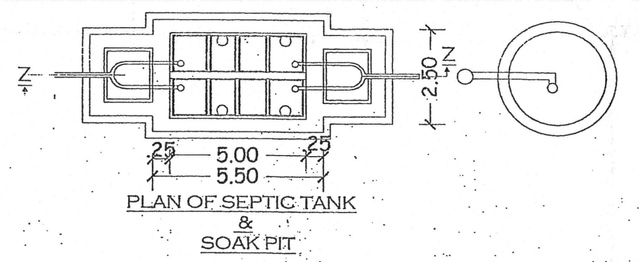
TERRACE FLOOR PLAN
(SCALE - 1:100)



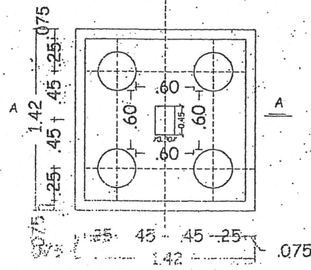
SECTION A-A



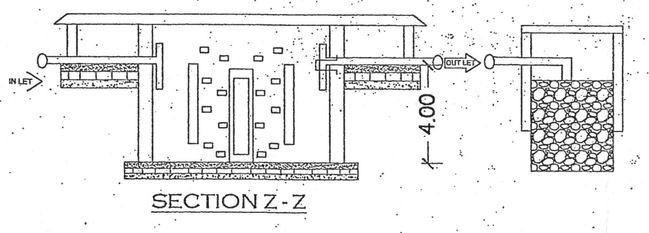
DET. OF PILE FOUNDATION



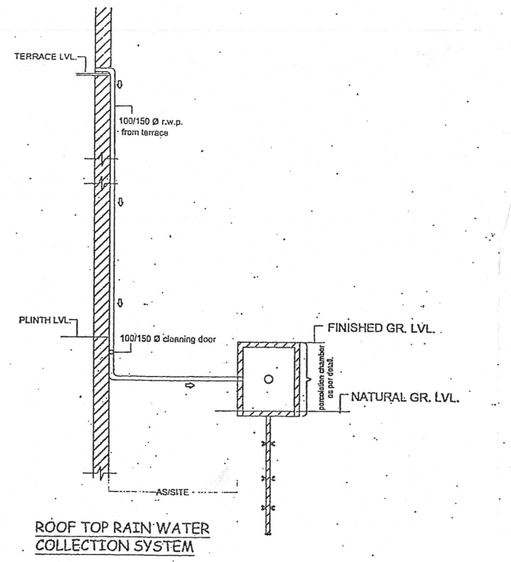
PLAN OF SEPTIC TANK
&
SOAK PIT



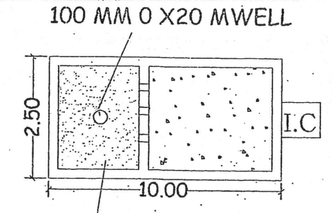
DET. OF PLAN



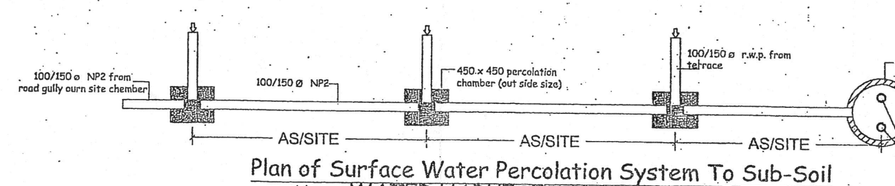
SECTION Z-Z



ROOF TOP RAIN WATER
COLLECTION SYSTEM



RAIN WATER PIT
TO RECHARGE TUBLE
10.00X2.50X6.00



Plan of Surface Water Percolation System To Sub-Soil
WATER HARVESTING PLANT

SEPTIC TANK CALCULATION

FOR COMMERCIAL
TOTAL BUILT UP AREA = 3221.34 SQM.
TOTAL CARPET AREA = 3221.34/2 = 1610.67SQM.
ASSUME 10 sqm CARPET AREA= 1 PERSON
HENCE 1610.67 sqm. CARPET AREA = 161 PERSON
CAPACITY OF SEPTIK TANK REQUIRENENT
@ 0.085 cum./ 1PERSON
TOTAL NO OF PERSON REQUIRED
= 161 X 0.085
= 13.68 cum. + 20% EXTRA = 16.42cum.

FOR RESIDENTIAL
NOS. OF FLAT = 60
ASSUME 5 PERSONS /FLAT REQ. 60X5 = 300
TOTAL NOS OF PERSON = 300
ADD 20 % EXTRA = 360 PERSON
CAPACITY OF SEPTIC TANK FOR 360 PERSON
@ 0.085 M / PERSON / DAY
360 X 0.085 = 30.60 CUM.
TOTAL SIZE OF SEPTIC TANK REQUIRED
=16.42 + 30.60 = 47.02CUM.
PROVIDED SIZE OF SEPTIC TANK
= 5.00X2.50X4.00 = 50.00 CUM

WATER TANK CALCULATION

FOR COMMERCIAL
TOTAL BUILT UP AREA = 3221.34 SQM.
TOTAL CARPET AREA = 3221.34/2 = 1610.67SQM.
ASSUME 10 sqm CARPET AREA = 1 PERSON
HENCE 1610.67 sqm. CARPET AREA = 161PERSON
ASSUME 50 LTR. WATER CONSUMPTION/PERSON/DAY
TOTAL WATER REQUIRED= 50 X 161
= 8050 LTR + 20%EXTRA = 9660 LTR.
TOTAL WATER REQUIRED = 9.66cum.

FOR RESIDENTIAL
NOS. OF FLAT = 60
ASSUME 5 PERSONS /FLAT REQ. 60X5 = 300
TOTAL NOS OF PERSON = 300
ADD 20 % EXTRA = 360 PERSON
ASSUME 135 LTR.WATER CONSUMPTION/PER /DAY
= 360 X135 + 5000(FOR FIRE FIGHTING)
= 48600 + 5000 lit. = 53600 ltr. = 53.60 CUM
TOTAL WATER TANK SIZE REQUIRED
= 9.66 + 53.60 = 63.26 CUM.
TOTAL SIZE OF WATER TANK PROVIDED
1) 7.49 X 3.25 X 1.00 = 24.34 CUM
2) 9.35 X 2.79 X 1.00 = 26.08 CUM
3) 4.22 X 4.65 X 1.00 = 19.62 CUM.
TOTAL = 70.04 CUM

RAIN WATER HARVESTING CALCULATION

TOTAL PLOT AREA = 2347.94 SQM.
RECHARGE PIT CAPACITY @ 6 CUM. FOR 100 SQM.
SO, 2347.94SQM. REQUIRED RECHARGE PIT
AREA = 23.47X6 = 140.82 CUM
RECHARGE PIT SIZE PROVIDED
= 10.00X2.50X6.00 = 150.00 CUM

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B.Sc. (Engg.) Mech.
Empanelment No. EP/2011/
0145, R.A.A., PATNA

SIGNATURE OF ARCH./ENG

SIGNATURE OF OWNER | SIGNATURE OF STR. ENG

PATNA MUNICIPAL CORPORATION
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