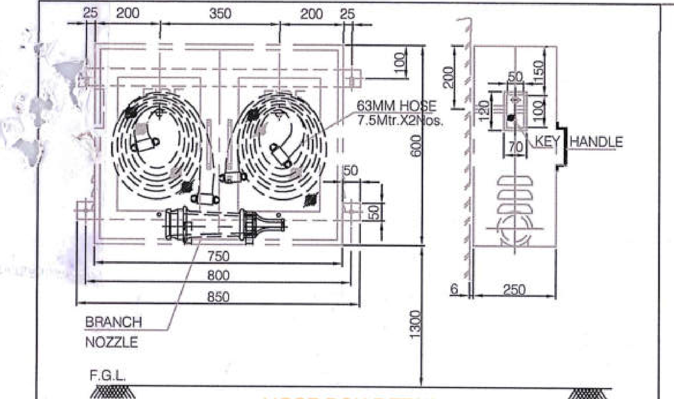
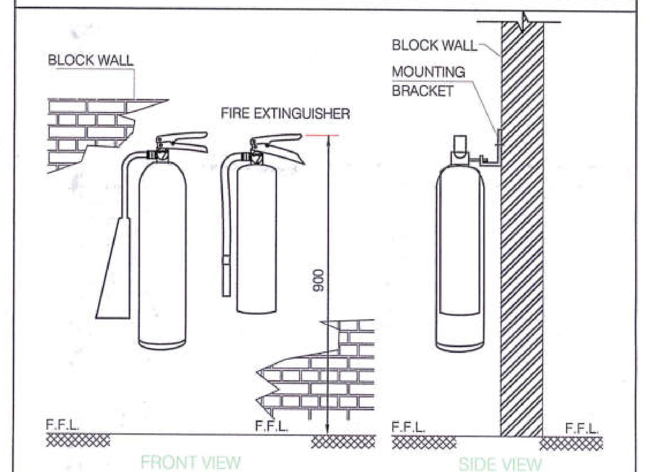
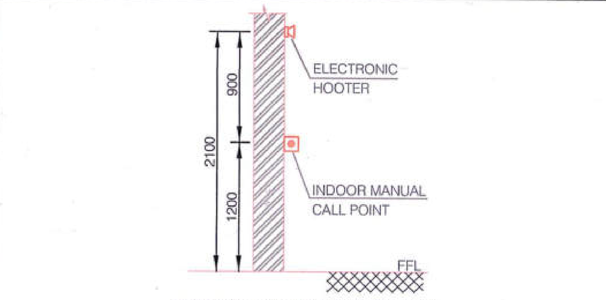


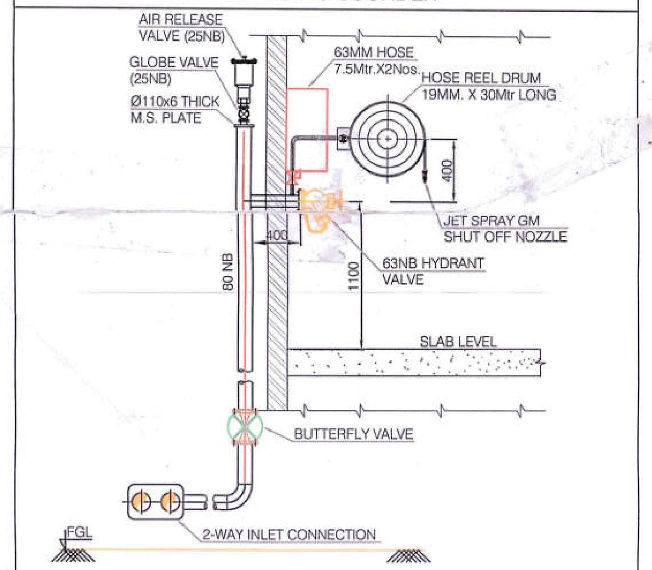
HOSE BOX DETAIL
(INTERNAL AND EXTERNAL WALL MOUNTED)



TYPICAL MOUNTING DETAIL FOR FIRE EXINGUISHER



TYPICAL MOUNTING DETAIL OF M.C.P & SOUNDER



TYPICAL DETAIL OF FIRE ESCAPE
HYDRANT AND HOSE REEL ARRANGEMENT

LEGEND:

Symbol	Description
PS	PRESSURE SWITCH
PG	PRESSURE GAUGE
	SINGLE HEADED HYDRANT VALVE
	HOSE BOX WITH CANVAS CONNECTION
BFV	BUTTERFLY VALVE
AAV	AIR VENT VALVE
NRV	NON RETURN VALVE
P1	BOOSTER PUMP 900 LPM
	GI PIPE
	MANUAL CALL POINT
	ELECTRONIC HOOTER
FACP	FIRE ALARM CONTROL PANEL
	2x1.5 SINGLE LOOP ARMORED CABLE
ABC	EXTINGUISHER

NOTE:

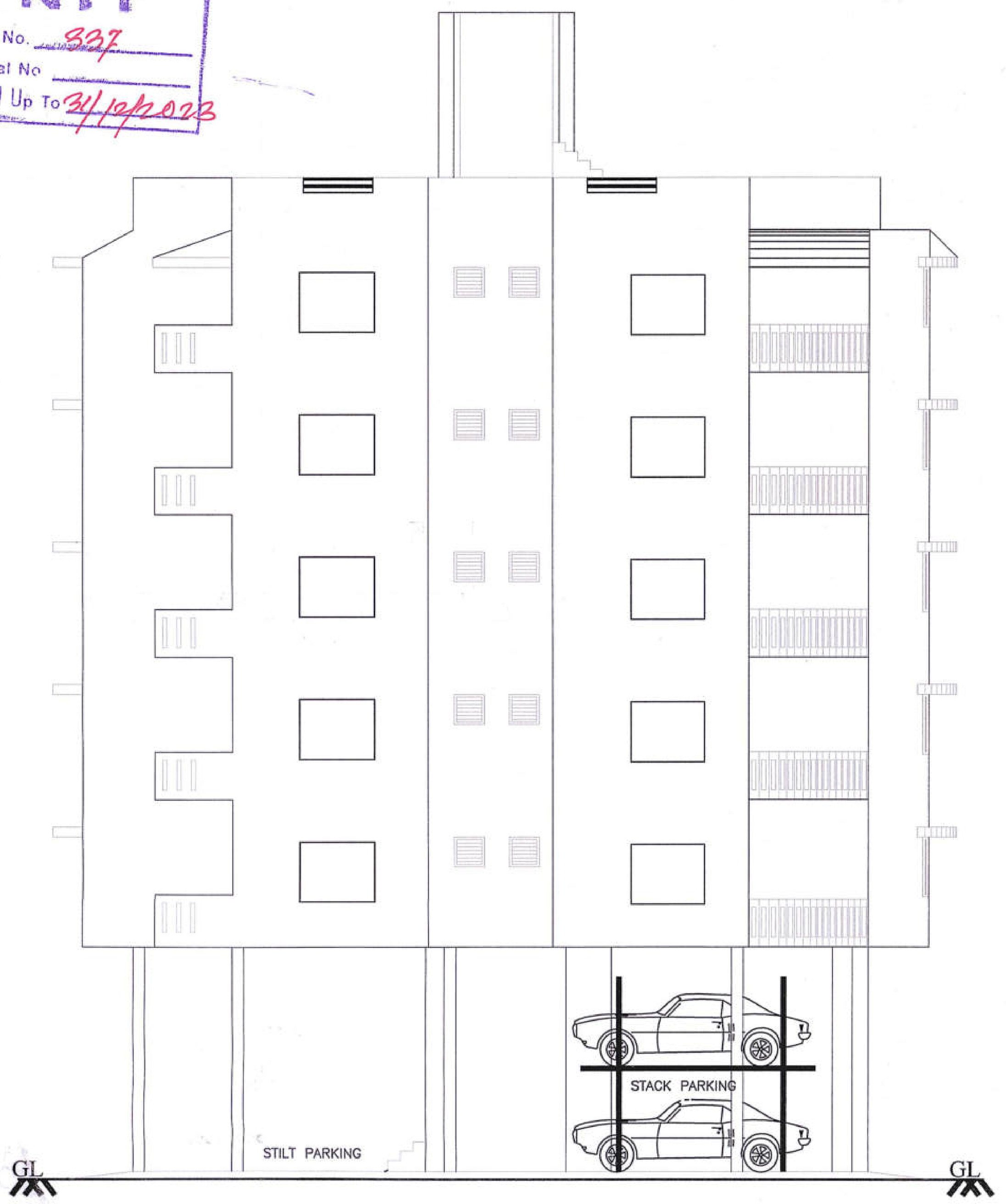
1. ALL DIMENSION ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. PIPES UPTO 150Ø ARE GI. `C' CLASS AS PER IS :1239 PART
3. FITTINGS SHALL BE WELDED TYPE.
4. PIPES SHALL BE PAINTED WITH ONE COAT OF PRIMER & TWO COATS OF ENAMEL PAINT.
5. PIPE SIZE / CABLE SIZE SHALL BE DONE BY THE NOMINATED CONTRACTOR BASED ON FINAL APPROVED FROM CONSULTANT.
7. THE CABLE ROUTING IS INDICATIVE AND IS SUBJECT TO CHANGE AS PER SITE CONDITIONS.
8. FIRE ALARM AND DETECTION SYSTEM IS DESIGNED AS PER IS: 2189/NFPA 72.
9. AS PER SITE CONDITION CABLE SHOULD RUN THROUGH WALL/CEILING WHEREVER IS POSSIBLE ELSE IT WILL RUN THROUGH SUITABLE CABLE TRAY.
10. TENTATIVE LOCATIONS OF THE FIRE EXTINGUISHERS ARE SHOWN ON DRAWINGS. ACTUAL LOCATIONS CAN BE DECIDED AT SITE AS PER STANDARDS.
11. THIS BUILDING FIRE FIGHTING SYSTEM HAS DESIGNED AS PER NBC 2016 TABLE NO. 7 RESIDENTIAL BUILDINGS (A) (c) (2).

FIRE FIGHTING CONSULTANT :

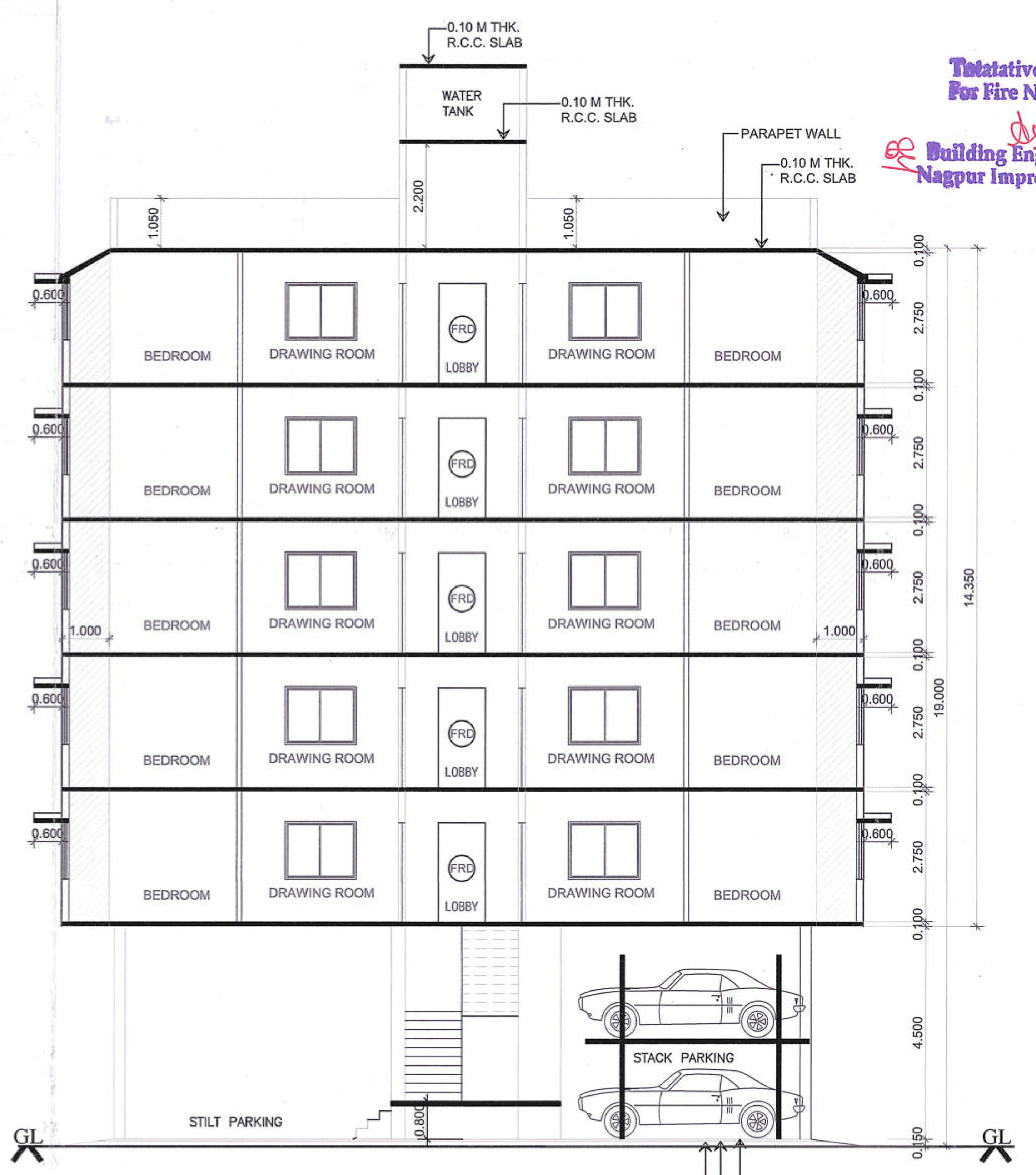
.\image.png

PS ENGINEERING SERVICES
A-3/68, Opp. Aasha Mangal Karyalaya, Pushpagandha Apartemnt, Khare Town, Dharampeth, Nagpur-440 010
Mo. No: 7767000216, E-Mail : psengg23@gmail.com
LICENCE NO. MFS-LA/2021/RF-75 (Hydrant System)
LICENCE NO. MFS-LA/2021/RD-62 (Detection System)
LICENCE NO. MFS-LA//2021/RP-12 (Passive System)

NIT
L.S. No. 337
Serial No.
Valid Up To 31/12/2022

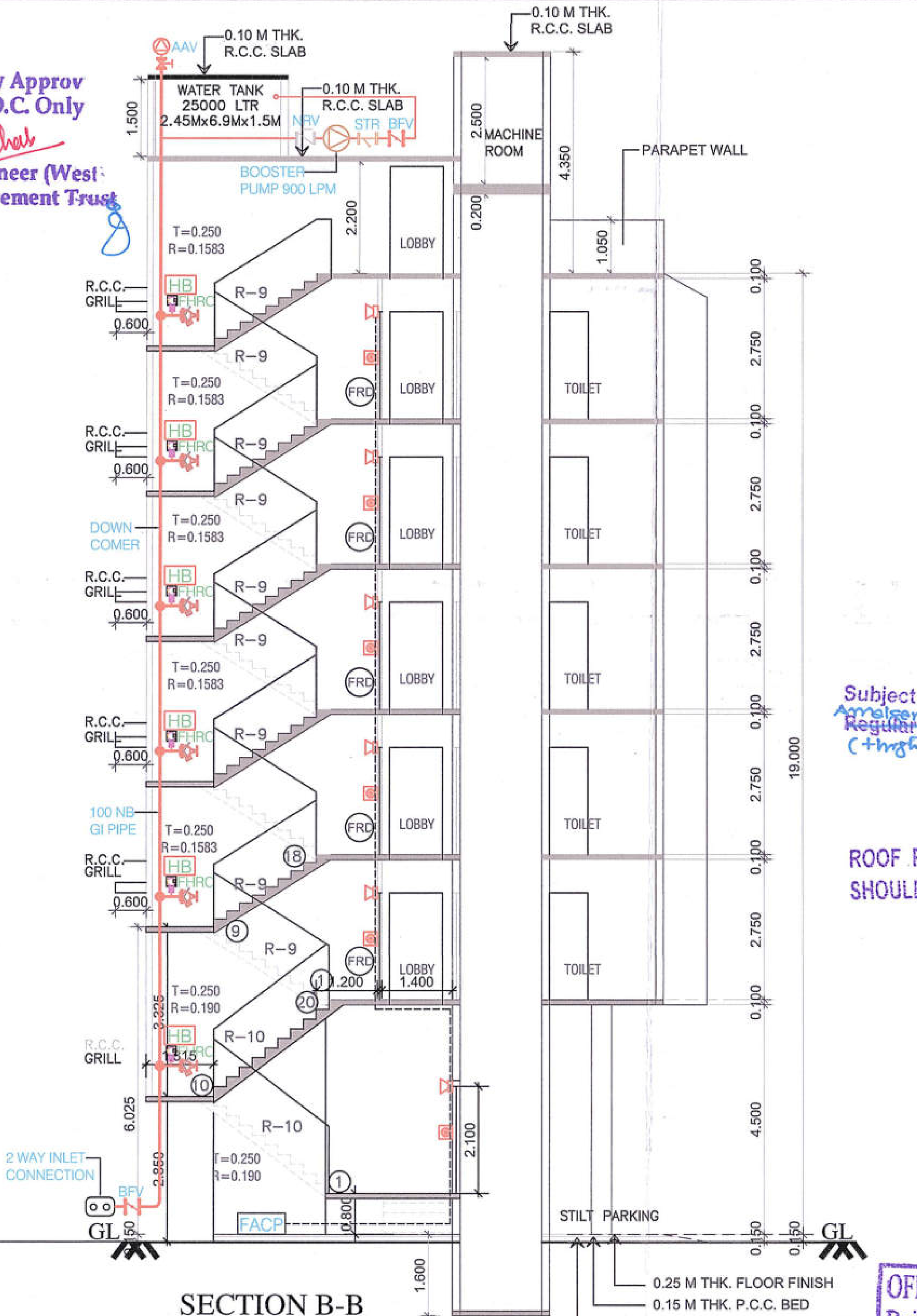


FRONT ELEVATION

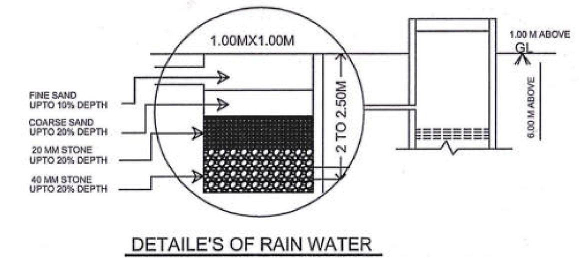


SECTION A-A

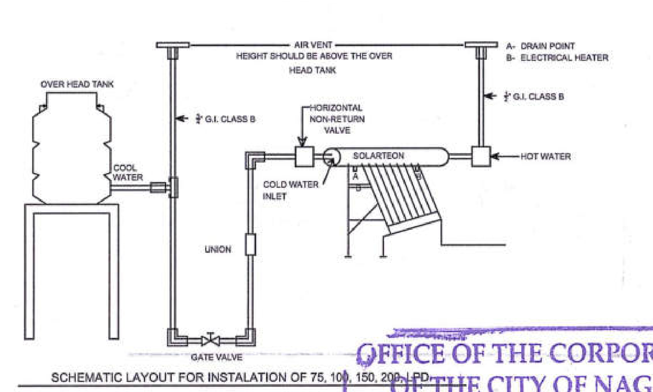
Tentatively Approv For Fire N.O.C Only
Building Engineer (West) Nagpur Improvement Trust



SECTION B-B



DETAILE'S OF RAIN WATER

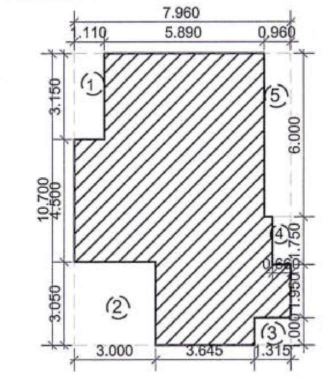


SCHEMATIC LAYOUT FOR INSTALLATION OF 75, 100, 150, 200 LPD
SOLAR WATER HEATING SYSTEM

Subject to the condition as per Regularisation letter dt. 20/5/2020

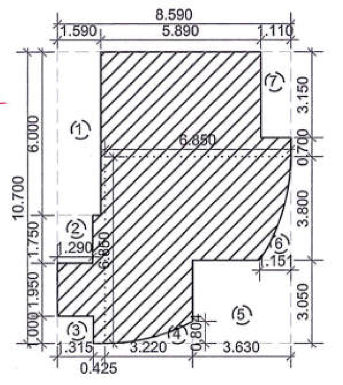
ROOF RAINWATER HARVESTING SYSTEM
SHOULD BE PROVIDED WITHIN PLOT AREA

OFFICE OF THE CORPORATION OF THE CITY OF NAGPUR.
(FIRE SERVICE)
No Objection Certificate hereby issued by Fire Service Deptt. for the proposed constructions.
The scope of this approval is Restricted to Fire Protection arrangements only.
Please See conditions mentioned 1 to 37 in N.O.C. Certificate No. G. A. / 229 /F.B.dated 23/03/2022
23/3/22
I/C Chief Fire Officer
Fire Service N.M.C. Nagpur.



CARPET AREA FOR 101,201,301,401,501:–
7.960 X 10.700 = 85.172
DEDUCTIONS:–
1) 1.110 X 3.150 = 3.495
2) 3.050 x 3.00 = 9.15
3) 1.315 X 1.00 = 1.315
4) 0.660 X 1.750 = 1.155
5) 0.960 X 6.00 = 5.76
=20.875
NET CARPET AREA :
85.172 −20.875 = 64.297SQ MT

OFFICE OF THE NAGPUR IMPROVEMENT TRUST
Building Permit No. BSUO/CADCNA/BUL-G-429/PRMB-2021071428/634
Date 06/06/2022
SANCTIONED
Building Engineer (West)
Nagpur Improvement Trust



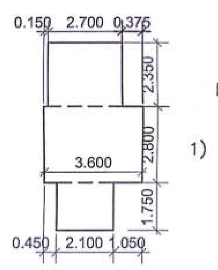
CARPET AREA FOR 102,202,302,402,502:–
8.590 X 10.700 = 91.913
DEDUCTIONS:–
1) 1.590 X 6.00 = 9.54
2) 1.290 x 1.75 = 2.257
3) 1.315 X 1.00 = 1.315

4) $X^2 + Y^2 = 6.85^2$
$Y = \sqrt{6.85^2 - x^2}$
$= 6.85 \times 3.22 - \int_0^{3.22} \sqrt{6.85^2 - x^2}\, dx$
$= 0.842$

5) 3.630 X 3.050 =11.0715

6) $X^2 + Y^2 = 6.85^2$
$X = \sqrt{6.85^2 - Y^2}$
$= 6.85 \times 3.80 - \int_{-3.8}^{0} \sqrt{6.85^2 - Y^2}\, dY$
$= 1.404$

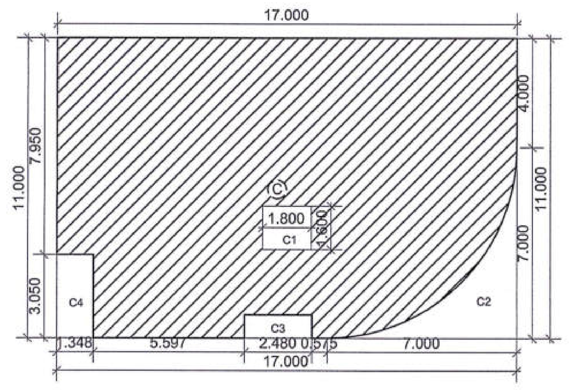
7) 1.110 X 3.150 = 3.497
=29.927
NET CARPET AREA :
91.913 −29.927 = 61.986 SQ MT



FSI consumed @ ground FLOOR :-

1) = 2.70 x2.350 +3.60 x 2.800 + 2.100 x1.750
= 20.10 sq mt

AREA KEY PLAN FOR GROUND FLOOR
SCALE - 1:200

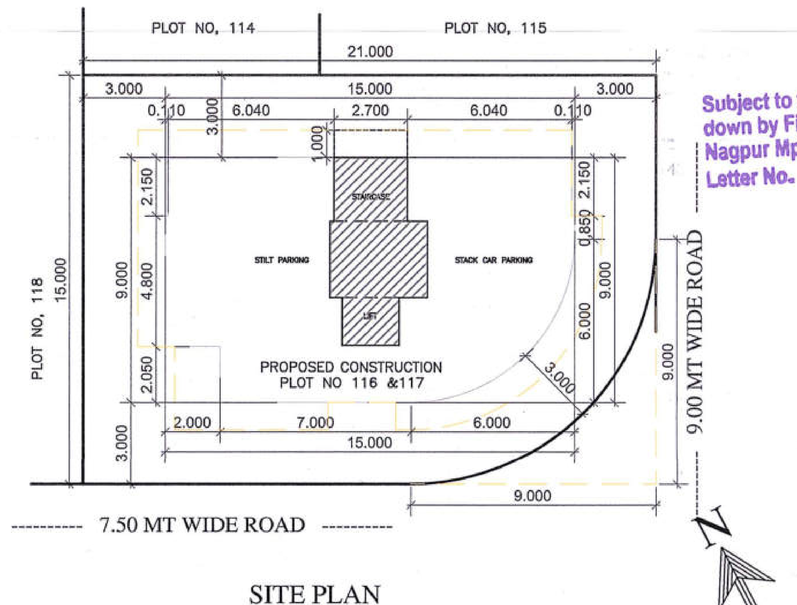


AREA KEY PLAN FOR 1ST, 2ND, 3RD , 4TH AND 5 TH FLOOR
SCALE - 1:200

BUILTUP AREA PER FLOOR :–
17.000X 11.000 = 187.000
DEDUCTIONS:–
1) 1.800 X 1.600 = 2.880
2) 7.000x7.000x(1−π/4) = 10.515
3) 2.480 X 1.000 = 2.480
4) 1.348 X 3.050 = 4.111
= 19.986
NET BUILTUP AREA PER FLOOR:
187.00−19.986 = 167.014 SQ MT

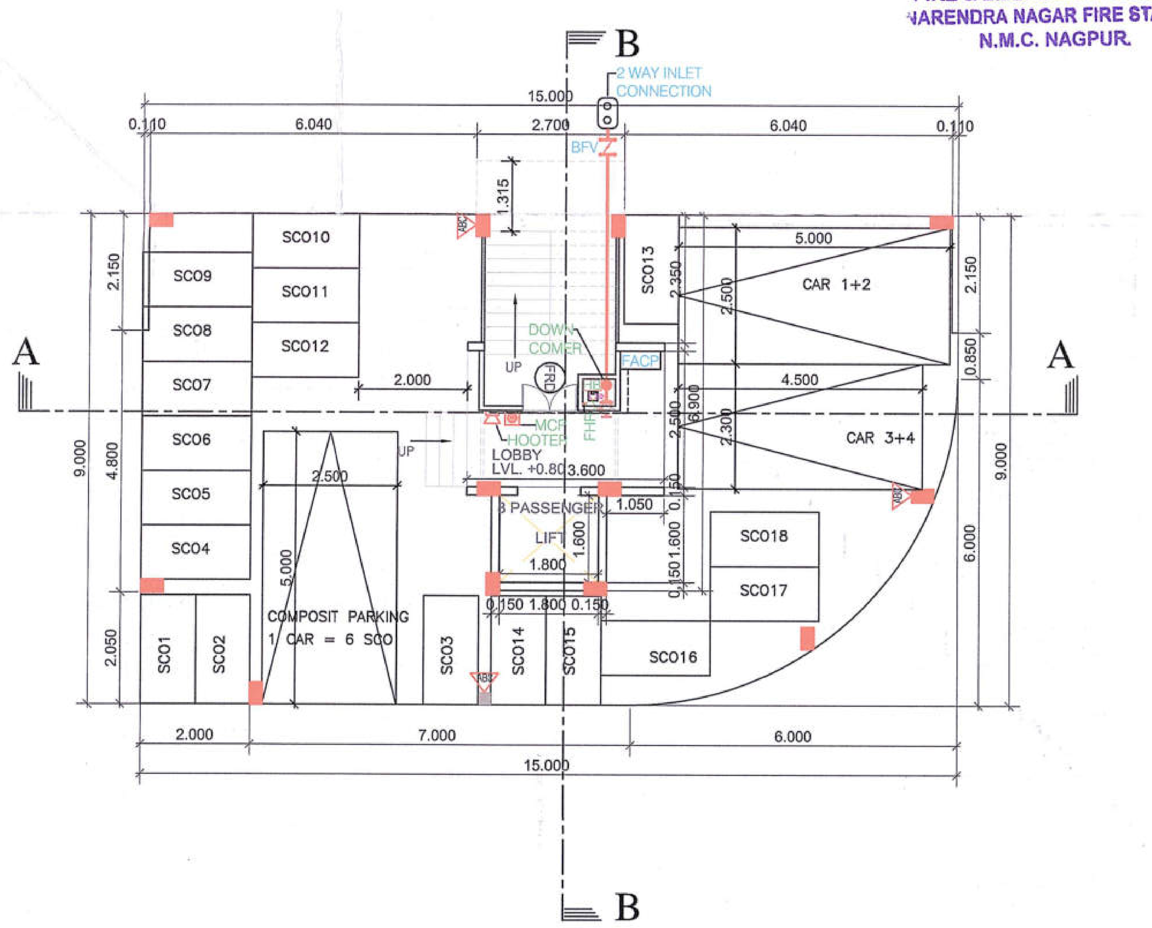
FSI CALCULATIONS AS PER PROFORMA - I OF UDCPR-2020 BUILT UP AREA CALCULATIONS			
FOR RESEDENTIAL HOUSING TENEMENTS:		PERMISSIBLE (Ratio/Area in m2)	PROPOSED (Ratio/Area in m2)
a) Net Plot Area for FSI Calculations (Clause No. 3.9 of UDCPR-2020) or as per amulgamation letter	:	297.643 sqm	297.643 sqm
b) Net P-line BUilt up area (Clause No. 6.6 of UDCPR-2020)	:	855.170 sqm	
c) Dividing Factor 1.6 to arrive Basic FSI+Premium FSI+TDR P-Line / (1.6)	:	855.17 sqm / (1.6) 534.481 sqm	534.481 sqm
d) Permissible Ancillary FSI (Clause No. 6.3, Table No. 6-G, Note-(i) of UDCPR (b-c))	:	855.17 - 534.481 320.69 sqm	320.69 sqm
e) Permissible basic FSIxB-up area (Clause No. 6.3, Table No. 6-G, of UDCPR)	:	1.1 x 297.643 327.407 sqm	327.407 sqm
f) Permissible Additional FSI on premium (Clause No. 6.3, Table No. 6-G, of UDCPR) (0.5 x a)	:	0.5 x 297.643 148.822 sqm	147.57 sqm
g) Permissible TDR (a x permissible TDR 0.2) (Clause No. 6.3, Table No. 6-G, of UDCPR)	:	0.2 x 297.643 59.529 sqm	59.529 sqm
h) Permissible TDR for road widening with compliance of clause no 7.2 & Proforma I of UDCPR (2.00 x --- sqm)	:	NIL	
i) Total entitlement of FSI	:	856.448 sqm	855.166 sqm
j) Maximum Building Potential on Plot/Land	:	535.758 sqm	534.4766 sqm

Subject to the Condition laid down by Fire Brigade Deptt. Nagpur Mpl. Corporation Vide Letter No. ... 23.03.2022

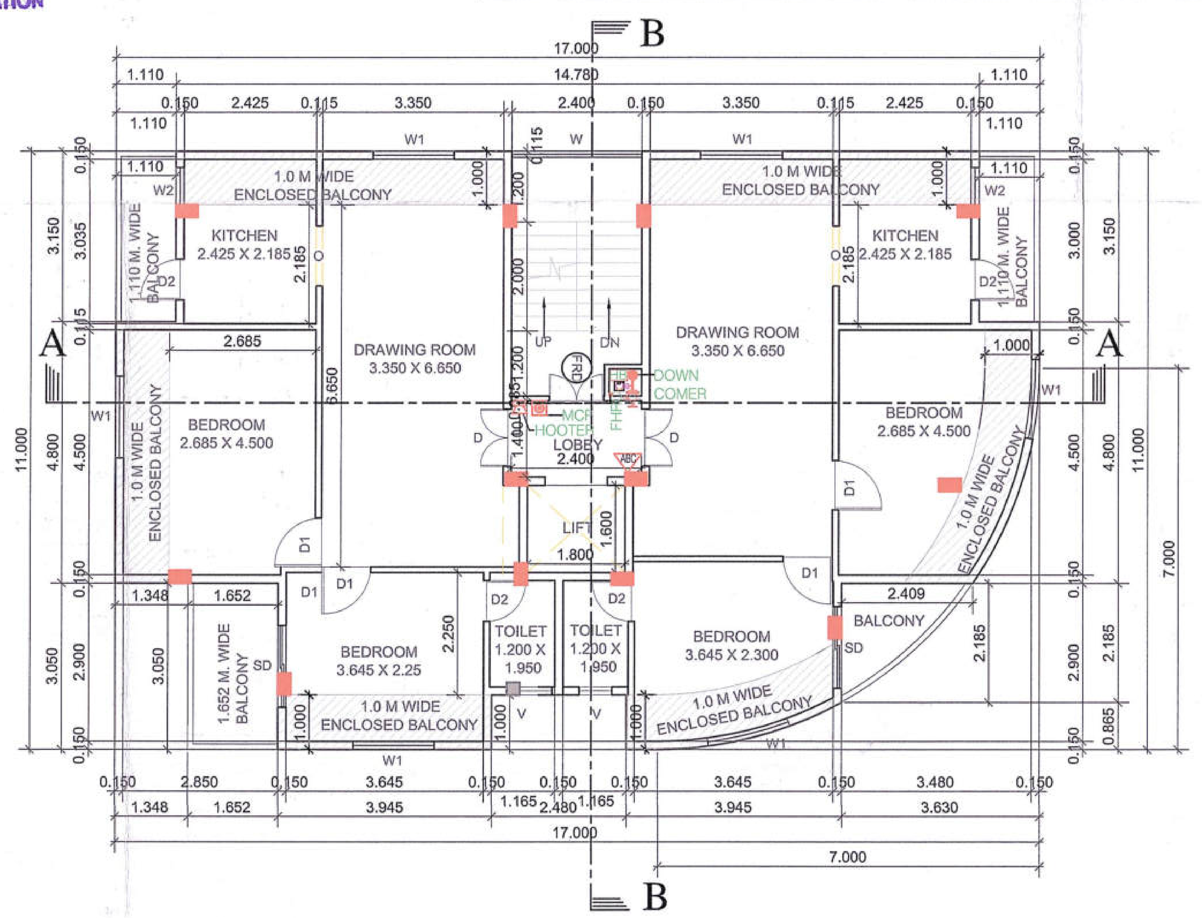


SITE PLAN
SCALE 1:200

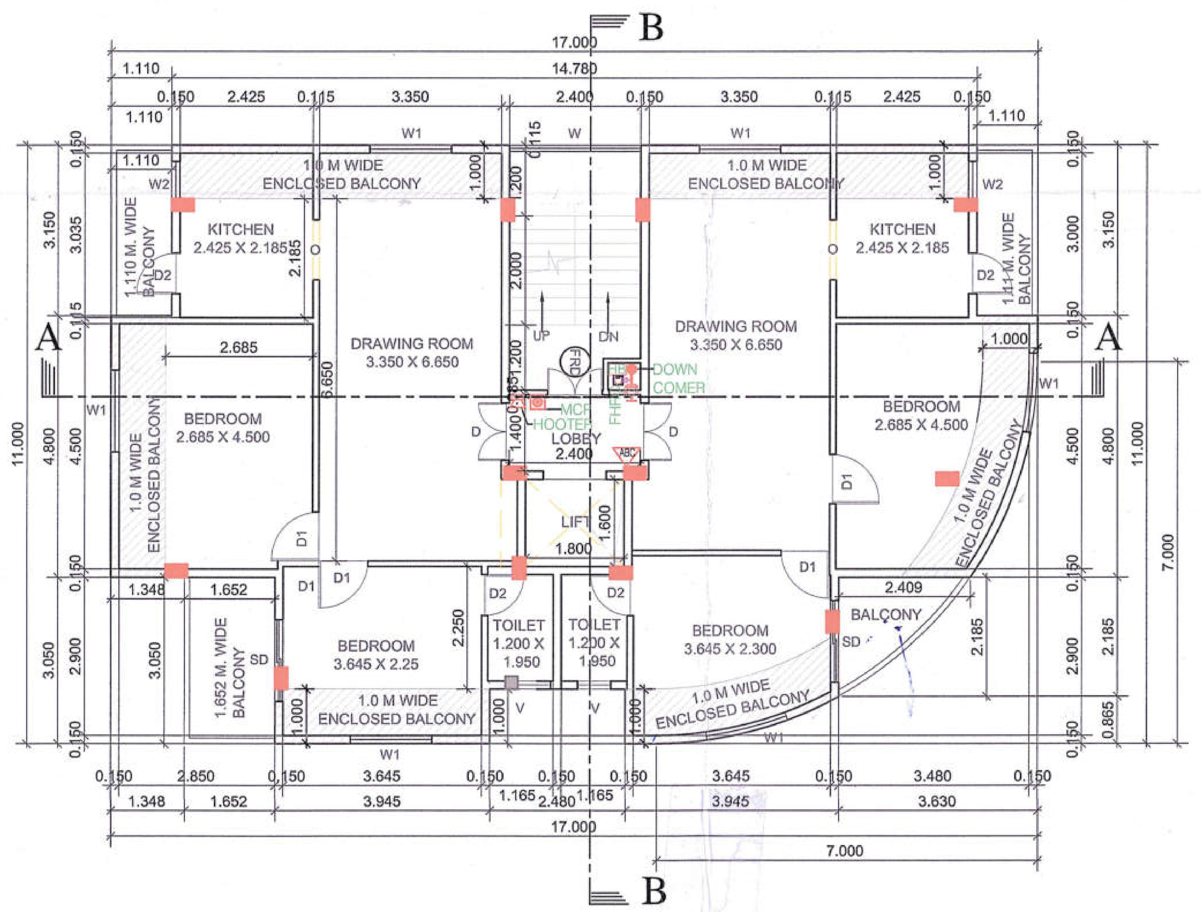
11/C STATION OFFICER 17/03/2022
FIRE & EMERGENCY SERVICE
NARENDRA NAGAR FIRE STATION
N.M.C. NAGPUR.



GROUND FLOOR PLAN
SCALE 1:100



1ST FLOOR PLAN
SCALE :- 1:100



TYPICAL FLOOR PLAN FOR 2ND, 3RD, 4TH AND 5TH FLOOR
SCALE :- 1:100

PARKING AREA STATEMENT		
REQUIRED PARKING	CAR	SCOOTER
10 flats having carpet area 40 to 80 sq mt.	5 x 1 = 5	5x5 = 25
5 % visitors parking	0	1
multiplying factor for nagpur (0.9)	5	23
total required parking rounded up as	5	23
Composite parking provided - 6 scooters = 1 car	1	6
provided parking	6	18

DOOR / WINDOW SCHEDULE

DOOR	FRD	1.00 X 2.10	FRD DOOR
DOOR	D	1.20 X 2.10	T.W. MAIN DOOR
	D1	1.00 X 2.10	T.W. DOOR
	D2	0.75 X 2.10	T.W. DOOR
WINDOW	W	1.50 X 1.20	T.W. WINDOW
	W1	1.50 X 1.20	T.W. WINDOW
	W2	1.20 X 1.00	T.W. WINDOW
	W3	1.78 X 0.60	T.W. WINDOW
VENTILATOR	V	0.60 X 0.60	M.S. VENTILATOR

SCALE :- 1:100, 1:200 DATE :-
JOB NO. :- DEALT :-

PLOT BOUNDRY SHOWN IN
PROPOSED CONSTRUCTION SHOWN IN

PROPOSED BUILDING PLAN FOR MULTY FAMILY RESIDENTIAL DWELLING UNIT ON PLOT NO. 116 & 117, KH. NO 52/2 , 80 /1,3 , MOUZA SOMALWADA , PH.NO. 44, SANTAJI CO. OP. HOU. SO. LTD. MANISH NAGAR, NAGPUR TAHSIL & DIST. NAGPUR

BELONGS TO :-
SHRI. GULAB TULSIRAM WANJARI

Form of Statement 1 [Sr. No. 8(a)(iii)] Existing building to be retained				
Existing Building no.	floor no.	Plinth Area	Total Floor Area of Existing Building	Use/ occupancy of Floors
(1)	(2)	(3)	(4)	(5)
NA	NA	NA	NA	NA

Form of Statement 2 [Sr. No. 9(a)] Proposed building		
Building no.	Floor no.	Total Built up Area of floor , per outer construction line
(1)	(2)	(3)
1	Ground floor	20.10
1	5 floor	167.014x5 = 835.070
	Total	855.17

Form of Statement 3 [Sr. No. 9(g)]

Area details of Apartment					
Building no.	floor no.	Apartment no.	Carpet area of apartment	area of balcony attached to apartment	Area of double height terraces attached to flats
1	2	3	4	5	6
1	1 to 5	101,201,301,401,501	64.297		-
1	1 to 5	102,202,302,402,502	61.986		-

Note : Above statements may vary , wherever required

A) AREA STATEMENT	SQ.M.
1. AREA OF PLOT (*Minimum area of a,b,c to be considered*)	297.643
a) As per ownership document (7/12, CTS extract)	297.643
b) as per measurement sheet	297.643
c) as per site	297.643
2. Deductions for	
a) Proposed D. P. / D. P. Road widening Area / service Road / Highway widening	-
b) any D. P. Reservation area	-
(Total a+b)	-
3 Balance area of plot (1-2)	297.643
4. Amenity space (if applicable)	-
a) Required	-
b) adjustment of 2 (b) , if any -	-
c) Balance proposed -	-
5. Net plot area (3-4(c))	297.643
6. Recreational open space (if applicable)	-
a) Required -	-
b) proposed -	-
7. Internal Road area	-
8. Plotable Area (if applicable)	-
9. Built up area with reference to basic f.s.i. as per front road width (*sr. no. 5xbasic FSI*) x 1.1	327.407
10. addition of FSI on payment of premium	
a) maximum permissible premium FSI - based on road width / TOD zone	
b) proposed FSI on payment of premium	148.822
11. In - situ FSI / TDR loading (20%)	59.529
a) In - situ area against d.p. road *[2.0 x sr. no. 2 (a)]* if any	-
b) In-situ area against Amenity space if handed over *[2.00 or 1.85 x sr. no. 4(b) and or (c)]*	-
c) TDR area	-
d) Total in-situ / TDR loading proposed (11(a)+(b)+(c)	
12) Additional FSI area under Chapter No. 7	
13) Total entitlement of FSI in the proposal	
a) [9+10+(b)+11(d)] or 12 whichever is applicable	535.758
b) Ancillary Area FSI upto 60% or 80% with payment of charges	321- 454
c) Total entitlement (a+b)	857.212
14) Maximum utilization limit of f.s.i. (building potential) permissible as per road width *{ as per regulation No. 6.1 or 6.2 or 6.3 or 6.4 as applicable) x 1.6 or 1.8 }*	
15) Total built up area in proposal . *(excluding area at sr. no. 17 b)*	
a) Existing Built up Area	-
b) proposed Built up Area (as per P-line)	855.17
c) Total (a+b)	
16) F.S.I. consumed (15/ 13) *(should not be more than serial No. 14 above)*	
17) area for Inclusive Housing , if any	-
a) Required *(20% of Sr. No. 5)*	-
b) Proposed	-

Certificate of Area

Certified that the plot under reference was surveyed by me on 11 sept 2020 and the dimensions of sides etc. of plot stated on plan area as measured on site and the area so worked out tallies with the area stated in document of ownership / t.p. scheme records Department / city survey records .

PRAVIN MULEY
Architect / Surveyor
NIT 337, NAGPUR Corp. NMC/L-303
Signature
(Name of architect / licensed engineer / supervisor)

Owner's Declaration

I/We undersigned hereby confirm that I/we would abide by plans approved by authority / collector. I / we would execute the structure as per approved plans . also i/we would execute the work under supervision of proper technical person so as to ensure the quality and safety at the work site.

Owner (s) name and signature Gulab Tulshiram Wanjari

Architect / licensed Engineer / Supervisor name signature

Job no.	Drawing no.	Scale	Drawn by	checked by	Registration no. of architect / license no. of licensed engineer / superviser
1	1	1:100			