Provisional Fire Clearance (Under 15 Mtr. Height)

Letter No ..... 753 ...../

OFFICE OF THE STATE FIRE OFFICER-CUM-DIRECTOR, BIHAR, PATNA.

From,

Pankaj Sinha,
State Fire Officer,
Bihar, Patna.

To,

Ar. Prasun Kumar,
Arch(SPA New Delhi)
A-22 LIG Ashiyana Nagar Phase-1
Patna- 25.

Patna Dt. 18.02.2019.

Sub :- The views regarding proposed Residential building of under 15 mtr. In height to be constructed at Mauza-Badi Khagaul, Dist-Patna.

Sir,

Please refer to your letter no.- 00 dt. - 18/01/2019 through which this aforesaid plan has been sent to us for examination, which was examined by the Fire Service committee.

During examination of the plan it was found that a (G+4), Total B/U area- 2148.21 Sqmtr.), Fully Residential building, shall be constructed on 80 feet wide road belongs to Md. Ataur Rahman, S/o- Late Dil Mohamad, Sanjay Kumar Singh S/o- Late Kameshwar Singh, Khesra no.-745(P), Khata no.- 50, Thana No-49, Thana- Khagaul, Mauza-Badi Khagaul, Dist-Patna.

We clear the plan after giving following advice/suggestions/recommendations based on NBC guideline, local building by laws & the local circumstances which must be followed by the concerned Architect/Developer/Land owner as the case may be.

i) **Construction :**

a) The whole construction of the proposed building shall be carried out as per approved plan drawing conforming the relevant building rules of local Municipal Corporation as per Bihar building bye laws, 2014.
b) The floor area exceeds 750 m ² shall be suitably compartmented by separation walls up to ceiling level having at least two hours Fire resisting capacity.
c) The interior finish decoration of the building shall be made low flame spread materials conforming I.S. specifications.
d) Provision of ventilation at the crown of the central core-duct of the building shall be provided.
e) Arrangements shall have to be made for sealing all the vertical ducts by the materials of adequate Fire resisting capacity.

ii) **Open Space & Approach :**

a) The open space surrounding the building shall conform the relevant building rules as well as permit the accessibility and maneuverability of Fire appliance with turning facility.
b) The approach roads shall be sufficiently strong to withstand the load of Fire Engine weighting up to 20 M.T.
c) The width and height of the access gates into the premises shall not be less than 4.5 M and 5M respecting abutting the road.

iii) **Stair Case :-**

a) The Staircase of the building shall be enclosed type. Entire construction shall be made of brick / R.C.C. type having Fire resisting capacity not less than 4 hours respectively marked in the plan.
b) The Staircase of the building shall have permanent vents at the top equal to 5% of the cross sectional area of the staircase enclosures and openable sashes at each floor level equal to 15% of the said cross section are shall have to be provided in the external wall of the building.
c) All the Staircase of the building shall be negotiable to each other in each floor without entering into any room and shall be extended up to respective terrace. The roof of the Stair wall shall be 1M above the surrounding roof area.
d) The width of the Staircases and corridor and travel distance of different categories of occupancies shall have to confirm the relevant building rules.
e) In case of two staircase, one must be on outer wall.
f) Both staircase are not went down to basement floor, for approach to basement, there should be another staircase for approach.

iv) LIFT :-

a) The walls of the Lift enclosure of the building shall be at least two hours Fire resisting type respectively marked in the plan with the event at top of area not less than 0.2 m^2.

b) The lift of the building shall be designed at high speed "Fire Lift" and conspicuously indicated marked in the plan.

c) In case of failure of normal electric supply, it shall automatically trip over to alternate supply. For apartment houses these change over of supply could be done through manually operated change over switch. Alternatively, the lift shall be so wired that in case of power failure, it comes down at the ground level land comes to stand still with door open.

d) Arrangement shall be provided for extraction of smoke in all the lift shaft by incorporation smoke venting system designed to permit 30 Air changes per hour in case of Fire and shall be of such design as to operate on actuation of sprinkler or Fire Alarm. In case of failure of normal electric supply. It shall automatically trip to alternate supply.

e) All other requirements shall conform the I.S. specification including the communication facility in the lift cars connecting with the Fire Control Room of the building.

v) That active Fire protection system such as down comer system with landing valve and hose reel at each floor incorporated with 450 LPM pump at Terrace level, ISI marked Fire extinguishers as per I.S 2190/1992, F.R. check door, manual call alarm point, Fire safety luminescent sign & other Fire precautionary measures as mentioned in NBC be provided before occupancy.

vi) That an underground water static tank of not less than 20,000 Ltrs. capacity with automatic refilling arrangements prefebly on front side where Fire Brigade vehicles can reach easily & overhead water static tank of not less than 10,000 Ltrs. capacity each blocks should be made available before occupancy.

vii) That the internal finishing shall be non-combustible or class - I surface spread of flame.

viii) That electric cables must be shield at each floor with intumescent coating .

ix) That Fire exit drill be carried out regularly at least twice in a year after occupation.

x) That the building must be constructed on at least 20 feet wide road and it is responsibility of the concerned Architect to be ensure the road width because he is the passing authority.

xi) That AMC should be given to a qualified firm or person for the maintenance of above recommended Fire equipments.

xii) That the setback shall be checked by the Architect / Passing authority as per the established rule. If any thing wrong , the Architect / Passing authority shall be held responsible.

xiii) It is hereby made clear that in case of any legal dispute arising in future, in which above recommendations have not been complied, the responsibility will fall entirely upon the Developers/ Architect/ Landowner as the case may be and not on the recommending Govt. authority (i.e. the office of the State Fire Office, Bihar).

xiv) It is hereby made also clear that this office (i.e. the office of the State Fire Officer-cum-Director, Bihar, Patna) is not responsible for any legal dispute of the land upon which the proposed building shall be constructed.

xv) Set backs on all the sides adheres to the provisions for the fire safety as per bye laws. Whereas immediately beneath this area in the basement is adhering to the bye laws will be examined by the concerned Urban local bodies.

This shall be treated as provisional. On compliance of all the above Fire and Life Safety recommendations, this office shall be approached for necessary inspection and testing of the installation, Final approval in favor of the occupancy shall be issued on being satisfied with the tests and performances of safety aspects of installation of the building.

N.B. - Any deviation and changes the nature of use of the building in respect of the approved plan drawing without obtaining prior permission from this office, this provisional will be treated as cancelled.

The maps are being returned with sign and stamp .

Encl - As Above

Yours faithfully

DIG HG & FS

(Pankaj sinha)

State Fire Officer

Bihar, Patna

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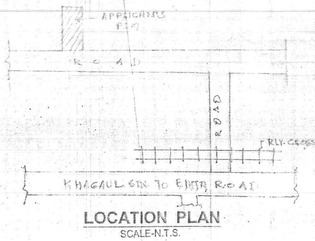
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18/01/19

DIG HG & FS
Cum
State Fire Officer
Bihar, Patna

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LOCATION PLAN
SCALE-N.T.S.

FIRE LEGEND

1. UNDER GROUND WATER STATIC TANK 20,000 LTR. CAPACITY	20,000
2. SEAMESE CONNECTION	
3.EMERGENCY LIGHT	
4. HOSE REEL	
5. FIRE HYDRANT POINT	
6.FIRE RESISTANCE CHECK DOOR	F.D
7. ILLUMNATED EXIT SIGN	EXIT
8. ISI MARKED F.E.	
9. SPRINKLER	S

SCHEDULE OF DOORS & WINDOWS

S.NO.	TYPE	WIDTH	HEIGHT	SILL LVL	LINTEL	DESCRIPTION
01	D	1.06	2.13	0.0	2.13	FULLY PANELLED
02	D1	0.90	2.13	0.0	2.13	DO
03	D2	0.75	2.13	0.0	2.13	DO
04	W	1.50	1.37	0.76	2.13	DO
05	W1	1.37	1.37	0.76	2.13	DO
06	W2	1.21	1.37	0.76	2.13	DO
07	W3	0.90	1.37	0.76	2.13	DO
08	W4	0.60	0.60	1.53	2.13	DO
09	DW1	0.90x1.44	2.13x1.37	0.0x1.53	2.13	DO
10	DW2	0.90x0.75	2.13x1.37	0.0x1.53	2.13	DO

1. **FOUNDATION** - R.C.C. UNDER REAMED PILE FOUNDATION 6.0 M DEEP WITH R.C.C AS/ STRUCTURAL ENGINEER.
2. **SUPER STRUCTURE** - 1st CLASS BRICK WORK IN SUPER STRUCTURE WITH CEMENT MORTER 1:6
3. **PLINTH** - HEIGHT P.L. AND G.L. AS SHOWN IN SECTION.
4. **FLOORING** - 0.025M TH. I.P.S. FLOORING OVER 0.125M TH. DRY RAMMED KHOA OVER 0.075 M TH. BRICK FLAT SOLING OVER SAND FILLING
5. **ROOF** - 0.10M TH. AVERAGE LIME TERRACING OVER R.C.C. ROOF SLAB.
6. **DOORS** - CHOWKHATS OF DOORS TO BE SAL WOOD.
7. **WINDOWS** - ALL WINDOWS TO BE FULLY GLAZED IN STEEL
8. **PLASTER** - 0.12M TH. CEMENT PLASTER ON BOTH SIDE OF BRICK WORK .
9. **COLOURING** - COLOUR OR WHITE WASH AS/CHOICE

AREA STATEMENTS :

TOTAL PLOT AREA =	930.95 M2
LEFT FOR ROAD WIDENING -	73.56 M2
NET PLOT AREA -	860.09 M2
GROUND FLOOR B/U -	37.41 M2
FIRST FLOOR B/U -	527.70 M2
SECOND FLOOR B/U -	527.70 M2
THIRD FLOOR B/U -	527.70 M2
FOURTH FLOOR B/U -	527.70 M2
TOTAL FLOOR B/U AREA =	2148.21 M2
F.A.R.= 2.49	

PLOT DETAILS :-

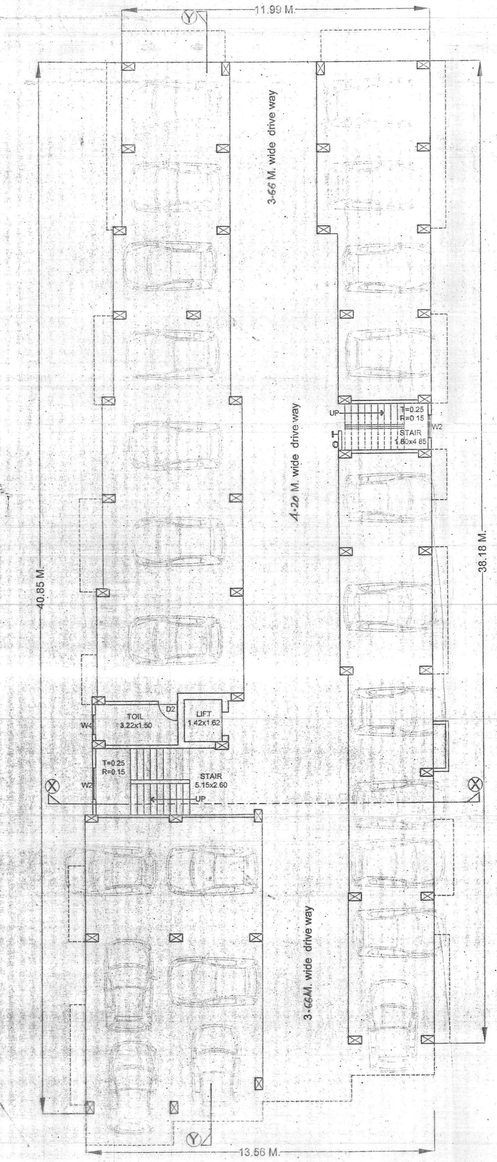
PROPOSED RESIDENTIAL BUILDING FOR
(1.) MD. ATAUR RAHMAN S/O LATE DIL MOHAMAD
(2.) SANJAY KUMAR SINGH S/O LATE KAMESHWAR SINGH
BOTH DIRECTOR OF A-ONE NANDINI CONSTRUCTION ON SURVEY KHESRA NO-745 (P) KHATA NO-50, MAUZA- BADI KHAGAUL, THANA NO-49, SURVEY THANA- DANAPUR PRESENT THANA - KHAGAUL DISTT.- PATNA.

SCALE-	NORTH	SHEET NO
1:100		MD-01/02

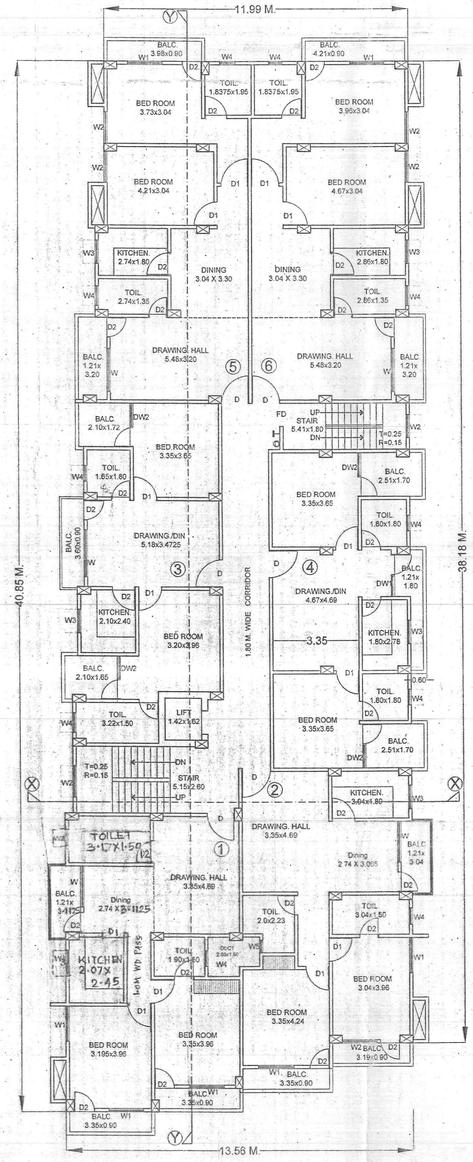
MD Ataur Rahman

PRASUN KUMAR ARCHITECT CA/2009/46553

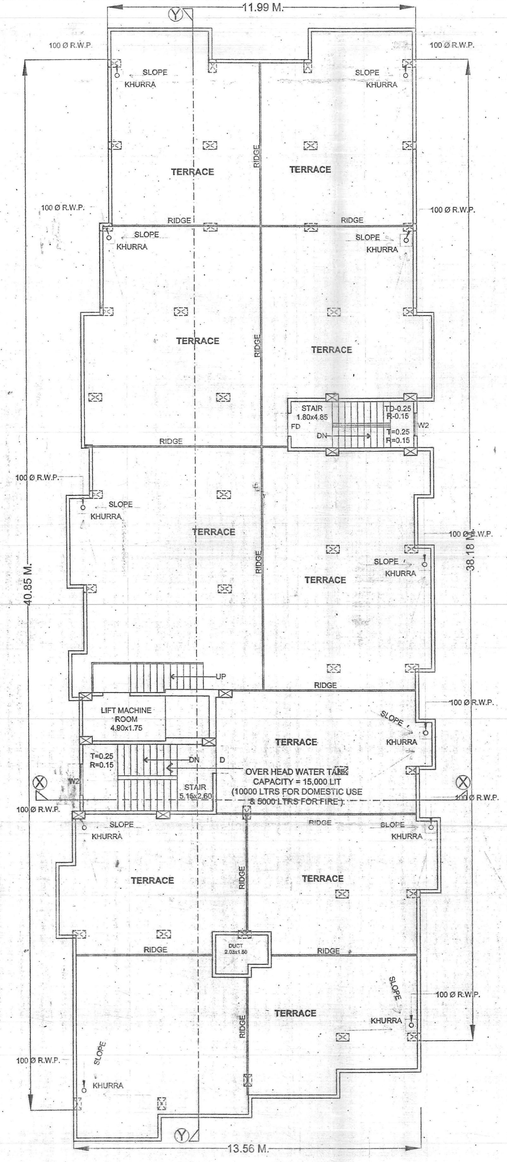
SIGNATURE OF OWNER | SIGNATURE OF ARCHITECT



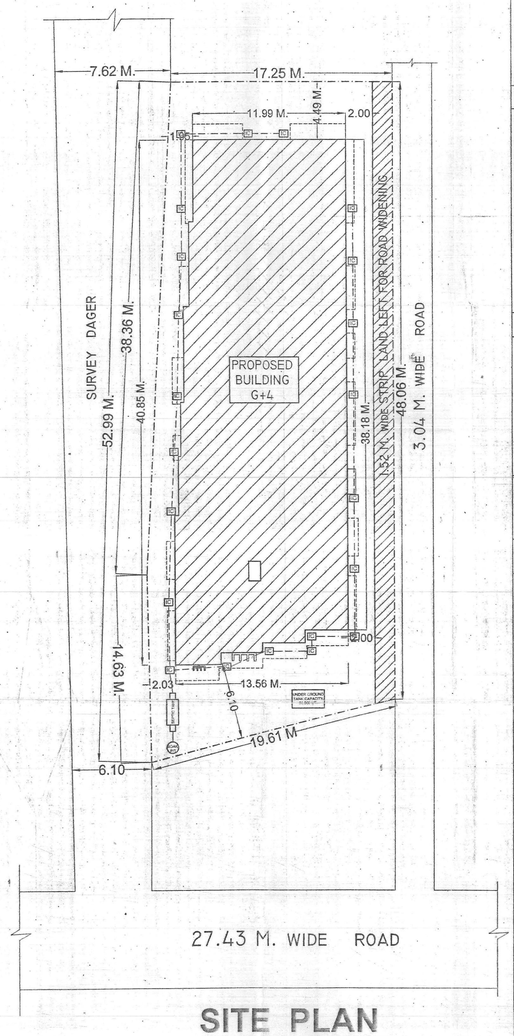
GROUND FLOOR PLAN



1ST TO 4TH FLOOR PLAN



TERRACE FLOOR PLAN

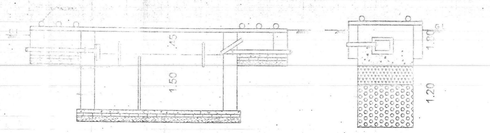


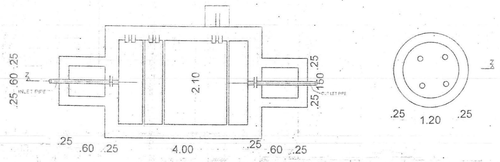
SITE PLAN
SCALE- 1:200

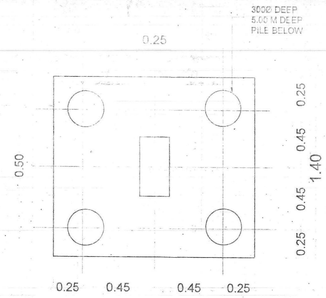
DIG HG & FS Cum State Fire Officer Bihar, Patna

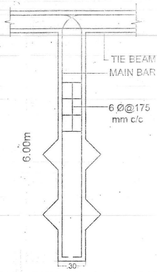
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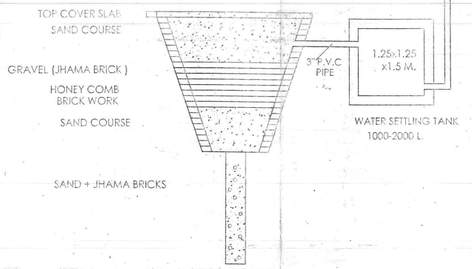






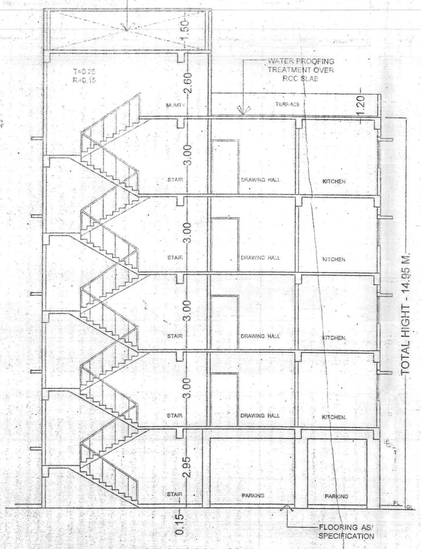


DETAIL OF PILE FOUNDATION



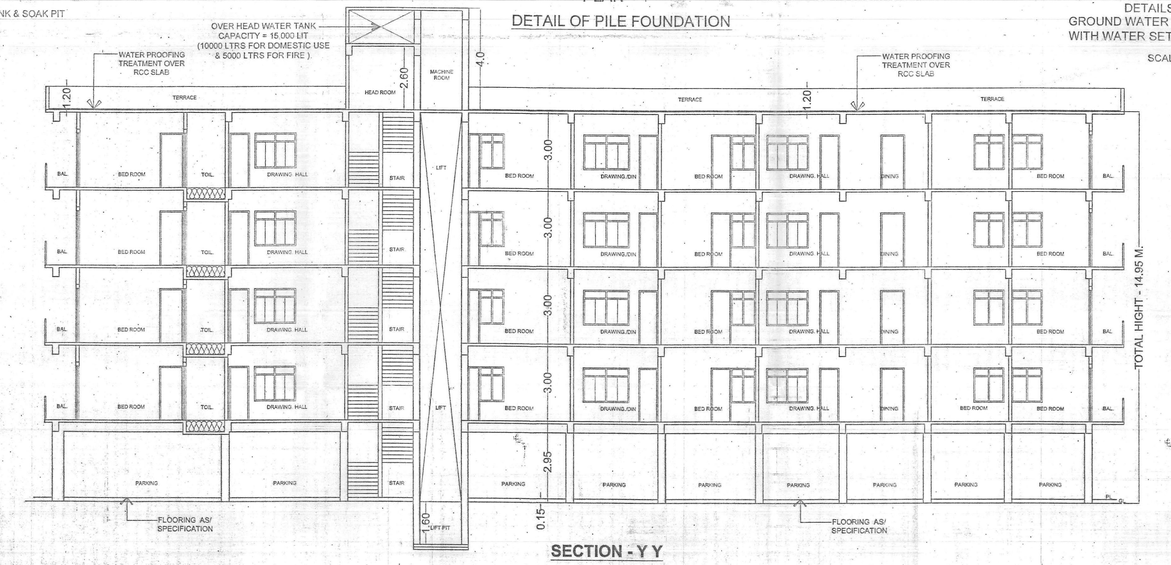
DETAILS OF
GROUND WATER RECHARGING PIT
WITH WATER SETTLING TANK

SCALE 1:50

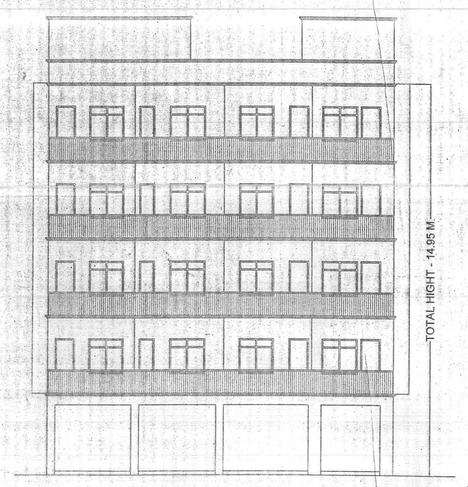


SECTION - X X

PLAN OF SEPTIC TANK & SOAK PIT



SECTION - Y Y



NORTH SIDE ELEVATION



LEFT SIDE ELEVATION

SEPTIC TANK CALCULATION

TOTAL NO. OF FLAT = 24 NOS.
EACH FLAT HAVING 5 PERSON = 24 X 5 = 120 PERSON
PER PERSON REQD. SEPTIC TANK AREA = 0.085 SQ.M.
120 X0.085 = 10.2 SQ.M. REQD.
PROVIDE AREA OF SEPTIC TANK
= 4.00X2.10X1.50 = 12.6 SQ.M.

WATER TANK CALCULATION

TOTAL NO. OF FLAT = 24 NOS.
EACH FLAT HAVING 5 PERSON = 24 X 5 = 120 PERSON
PER PERSON REQD. WATER =135 ltrs/day = 120 X135 = 16200 ltrs
(DOMESTIC WATER TANK 60 % OF TOTAL CAP.-10000 LTRS
5000 LTRS FOR FIRE FIGHTING = TOTAL - 15000 LTRS

PARKING CALCULATION

TOTAL B/U AREA= 2148.21 sqm.
REQUIRED PARKING AREA =25%
OF TOTAL B/U AREA=25x2148.21/100=537.07 sqm
PROVIDED PARKING AREA =
GROUND = 540.00 sqm
TOTAL PARKING = 540.00 sqm

PLOT DETAILS :-

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(2.) SANJAY KUMAR SINGH S/O LATE KAMESHWAR SINGH
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THANA NO-49, SURVEY THANA- DANAPUR,
PRESENT THANA - KHAGAUL DISTT.- PATNA.

SCALE-	NORTH	SHEET NO.
1:100		MD.-02/02

Md. Ataur Rahman

PRASANTA KUMAR
ARCHITECT
CA/2009/46653
Prasanta Kumar

SIGNATURE OF OWNER | SIGNATURE OF ARCHITECT

DIG HG & FS
Cum
State Fire Officer
Bihar, Patna

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