

PLOT STETMENT

PROPOSED RESIDENTIAL BUILDING OF
SHREE RANJEET KUMAR, S/O - LATE HIRA LAL SINGH,
(MANAGING DIRECTOR) MAURYA VIHAR BUILDERS AND
CONSTRUCTIONS PRIVATE LIMITED.
C.S PLOT NO.2003 (PART), 2004(PART), 2005(PART)
MAUZA :-SIMLI MURARPUR, PATNA
THANA NO.38
KHATA NO. 289,290,300
TAUZI NO.228
DIST- PATNA

14.05.2020
सहायक अभियंता
पटना महानगर क्षेत्र प्राधिकार

प्रभारी निदेशक
पटना महानगर क्षेत्र प्राधिकार

Patna Metropolitan Area
Sanction of Plan case no. PMMA/PRN/2019/2020 17/12/2019
dated 17/12/2019
Development Control Regulations for Patna
Master Plan 2031 (Byelaws no 34) of Better Building
Byelaws 2014) vide notification no 831/832
dated 23.10.2016 on Date 17/02/2020
BMC-H-A+B+C+D/G+5/80/2019

विहार भू-सम्पदा (विनियमन, विकास)
नियामकवली, 2017 की शर्तों के अधीन
राज्य में गठित विनियमन प्राधिकरण
से इस परियोजना का निवेदन
अंगिकार होगा।

CERTIFICATE

THIS IS TO CERTIFY THAT STRUCTURAL DESIGN OF THIS
BUILDING IS EARTH QUAKE RESISTANT

ALL DIMENSION ARE IN MM

SCALE :
1:100

NORTH

DWG NO :
0208

For Maurya Vihar Builders &
Construction Pvt. Ltd.
Ranjeet Kumar
Managing Director

Er. Shalish Ranjan
B.Sc (Engg) Civil, M.I.E
Emp.No.-ER/10/16
P.M.C Patna

SIGNATURE OF LAND OWNER

SIGNATURE OF ENGINEER/ARCHITECT

Brajesh Kumar Sinha
Structural Engineer
SE/02/16
Patna Municipal Corporation
PATNA

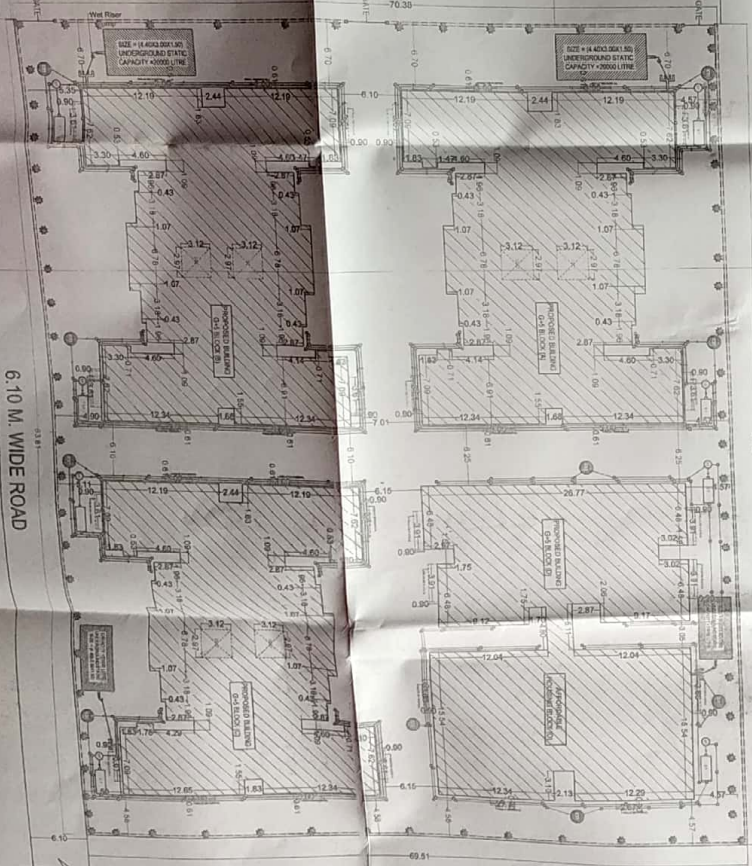
SIGNATURE OF STRUCTURAL ENGINEER

45.00 M MASTER PLAN ROAD

LOCATION PLAN

9.14 M. WIDE ROAD

6.10 M. WIDE ROAD



WATER HARVESTING CALCULATION (BLOCK A+B)
 TOTAL NO. OF FLAT - 22 NOS.
 TOTAL NO. OF PERSONS - 110 PERSONS
 TOTAL WATER REQUIRED - 110 X 150 LITERS = 16500 LITERS
 TOTAL WATER HARVESTED - 16500 LITERS
 TOTAL PROVIDED - 16500 LITERS

WATER HARVESTING CALCULATION (BLOCK C)
 TOTAL NO. OF FLAT - 22 NOS.
 TOTAL NO. OF PERSONS - 110 PERSONS
 TOTAL WATER REQUIRED - 110 X 150 LITERS = 16500 LITERS
 TOTAL WATER HARVESTED - 16500 LITERS
 TOTAL PROVIDED - 16500 LITERS

WATER HARVESTING CALCULATION (BLOCK D)
 TOTAL NO. OF FLAT - 22 NOS.
 TOTAL NO. OF PERSONS - 110 PERSONS
 TOTAL WATER REQUIRED - 110 X 150 LITERS = 16500 LITERS
 TOTAL WATER HARVESTED - 16500 LITERS
 TOTAL PROVIDED - 16500 LITERS

WATER TANK CALCULATION (BLOCK A+B)
 TOTAL NO. OF FLAT - 22 NOS.
 TOTAL NO. OF PERSONS - 110 PERSONS
 TOTAL WATER REQUIRED - 110 X 150 LITERS = 16500 LITERS
 TOTAL WATER HARVESTED - 16500 LITERS
 TOTAL PROVIDED - 16500 LITERS

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 TOTAL NO. OF FLAT - 22 NOS.
 TOTAL NO. OF PERSONS - 110 PERSONS
 TOTAL WATER REQUIRED - 110 X 150 LITERS = 16500 LITERS
 TOTAL WATER HARVESTED - 16500 LITERS
 TOTAL PROVIDED - 16500 LITERS

AREA CALCULATION
 TOTAL FLOOR AREA - 11000 SQ.M.
 TOTAL ROOF AREA - 11000 SQ.M.
 TOTAL LAND AREA - 11000 SQ.M.

BLOCK A
 TOTAL FLOOR AREA - 11000 SQ.M.
 TOTAL ROOF AREA - 11000 SQ.M.
 TOTAL LAND AREA - 11000 SQ.M.

BLOCK B
 TOTAL FLOOR AREA - 11000 SQ.M.
 TOTAL ROOF AREA - 11000 SQ.M.
 TOTAL LAND AREA - 11000 SQ.M.

BLOCK C
 TOTAL FLOOR AREA - 11000 SQ.M.
 TOTAL ROOF AREA - 11000 SQ.M.
 TOTAL LAND AREA - 11000 SQ.M.

BLOCK D
 TOTAL FLOOR AREA - 11000 SQ.M.
 TOTAL ROOF AREA - 11000 SQ.M.
 TOTAL LAND AREA - 11000 SQ.M.

LEGEND
 1. FLOOR AREA - 11000 SQ.M.
 2. ROOF AREA - 11000 SQ.M.
 3. LAND AREA - 11000 SQ.M.

NOTES
 1. ALL DIMENSIONS ARE IN METERS.
 2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.

FOR M/s. VIKAS BUILDERS & CONSTRUCTION PVT. LTD.
 Managing Director
 Mr. Vikas Singh

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 Managing Director
 Mr. Vikas Singh

HARVESTING CALCULATION (BLOCK-A & B)

AREA = 677.14 X 2 = 1354.28 SQ.M
W.H CAPACITY 6 CUM FOR 100 SQ.M
AREA
WATER HARVESTING @ 135LTR/PERSON = 135X125 = 16875 LTRS
WATER HARVESTING SIZE
6.05X2.5X1.50 = 26.04 CUM
PROVIDED=26.04 CUM

WATER HARVESTING CALCULATION (BLOCK-C)

AREA = 680.52 SQ.M
W.H CAPACITY 6 CUM FOR 100 SQ.M
AREA
WATER HARVESTING @ 135LTR/PERSON = 135X225 = 30375 LTRS
WATER HARVESTING SIZE
7.50X2.5X1.50 = 28.12 CUM
PROVIDED=28.12 CUM

WATER HARVESTING CALCULATION (BLOCK-D)

AREA = 779.55 SQ.M
W.H CAPACITY 6 CUM FOR 100 SQ.M
AREA
WATER HARVESTING @ 135LTR/PERSON = 135X225 = 30375 LTRS
WATER HARVESTING SIZE
7.50X2.5X1.50 = 28.12 CUM
PROVIDED=28.12 CUM

WATER TANK CALCULATION (BLOCK-D)

TOTAL NO. OF FLAT = 25 NOS
NO. OF PERSON @ 5 PERSON/FLAT = 5 X 25 = 125 PERSONS
TOTAL NO. OF PERSONS = 125
WATER NEEDED @ 135LTR/PERSON = 135X125 = 16875 LTRS
LTRS 16875 = 16.88 CUM
PROVIDED WATER TANK SIZE
6.05X2.5X1.50 = 26.04 CUM
TOTAL PROVIDED=26.04 CUM

SEPTIC TANK CALCULATION (BLOCK-D)

TOTAL NOS OF PERSON @ 5 PERSONS IN EACH FLAT = 5X25 = 125
REQUIRED @ 0.085 CUM / PERSON = 180X0.085 = 10.62 CUM
PROVIDED SEPTIC TANK OF SIZE
7.50X2.5X1.50 = 28.12 CUM
TOTAL = 28.12 CUM

WATER TANK CALCULATION (BLOCK-D)

TOTAL NO. OF FLAT = 45 NOS
NO. OF PERSON @ 5 PERSON/FLAT = 5 X 45 = 225 PERSONS
TOTAL NO. OF PERSONS = 225
WATER NEEDED @ 135LTR/PERSON = 135X225 = 30375 LTRS
LTRS 30375 = 30.38 CUM
PROVIDED WATER TANK SIZE
7.50X2.5X1.50 = 28.12 CUM
TOTAL PROVIDED=28.12 CUM

SEPTIC TANK CALCULATION (BLOCK-D)

TOTAL NOS OF PERSON @ 5 PERSONS IN EACH FLAT = 5X45 = 225
REQUIRED @ 0.085 CUM / PERSON = 225X0.085 = 19.125 CUM
PROVIDED SEPTIC TANK OF SIZE
7.50X2.5X1.50 = 28.12 CUM
TOTAL = 28.12 CUM

WATER TANK CALCULATION (BLOCK-A & B)

TOTAL NO. OF FLAT = 40 X 2 = 80 NOS
NO. OF PERSON @ 5 PERSON/FLAT = 5 X 80 = 400 PERSONS
WATER NEEDED @ 135LTR/PERSON = 135X400 = 54000 LTRS
LTRS 54000 = 54.00 CUM
PROVIDED WATER TANK SIZE
9.14X2.44X1.50 = 33.45 CUM X 2 NOS
TOTAL PROVIDED=66.90 CUM

SEPTIC TANK CALCULATION (BLOCK-A & B)

TOTAL NO. OF FLAT = 40 X 2 = 80 NOS
NO. OF PERSON @ 5 PERSON/FLAT = 5 X 80 = 400 PERSONS
VOLUME NEEDED @ 0.085 CUM/PERSON = 0.085X400 = 34 CUM
PROVIDED SEPTIC TANK OF SIZE
5.00X2.5X1.50 = 18.75 CUM X 2 NOS
TOTAL = 37.50 CUM

WATER TANK CALCULATION (BLOCK-C)

TOTAL NO. OF FLAT = 40 NOS
NO. OF PERSON @ 5 PERSON/FLAT = 5 X 40 = 200 PERSONS
TAKING 20% EXTRA = (200 X 20) 100 = 40 PERSONS
TOTAL NO. OF PERSONS = 200 + 40 = 240
WATER NEEDED @ 135LTR/PERSON = 135X240 = 32400 LTRS
LTRS 32400 = 32.40 CUM
PROVIDED WATER TANK SIZE
9.14X2.44X1.50 = 33.45 CUM
TOTAL PROVIDED=33.45 CUM

SEPTIC TANK CALCULATION (BLOCK-C)

TOTAL NOS OF PERSON @ 5 PERSONS IN EACH FLAT = 5X40 = 200
20% EXTRA = 40, TOTAL NOS OF PERSONS = 240
REQUIRED @ 0.112 CUM / PERSON = 240X0.112 = 26.88 CUM
PROVIDED SEPTIC TANK OF SIZE
7.50X2.5X1.50 = 28.12 CUM
TOTAL = 28.12 CUM

PARKING AREA CALCULATION

TOTAL (BLOCK-A)+(BLOCK-B)+(BLOCK-C)+(BLOCK-D) BUILTUP AREA = 12084.74 SQ.M
TOTAL REQUIRED PARKING AREA @ 25% OF 12084.74 SQ.M = 3021.185 SQ.M
TOTAL PARKING AREA = 3021.185 SQ.M
COVERED PARKING AREA (BLOCK-A+B+C+D) = 3021.185 SQ.M
900.25 + 900.25 + 900.25 + 838.74 = 3539.49 SQ.M
TOTAL PARKING AREA PROVIDED = 3539.49 SQ.M

PLANTATION AREA CALCULATION

TOTAL PLOT AREA = 5801.60 SQ.M
TOTAL REQUIRED PLANTATION AREA @ 5% OF 5801.60 SQ.M = 290.08 SQ.M
TOTAL LANDSCAPING AREA PROVIDED = 291.00 SQ.M

AREA CALCULATION

TOTAL PLOT AREA AS PER DEED = 5888.38 SQ.M
TOTAL PLOT AREA AS PER SITE = 5889.85 SQ.M

BLOCK-A

GROUND FLOOR BUILTUP AREA = 23.43 SQ.M
1ST FLOOR BUILTUP AREA = 677.14 SQ.M
2ND FLOOR BUILTUP AREA = 677.14 SQ.M
3RD FLOOR BUILTUP AREA = 677.14 SQ.M
4TH FLOOR BUILTUP AREA = 677.14 SQ.M
5TH FLOOR BUILTUP AREA = 677.14 SQ.M
TOTAL BUILTUP AREA = 3409.13 SQ.M

BLOCK-B

GROUND FLOOR BUILTUP AREA = 23.43 SQ.M
1ST FLOOR BUILTUP AREA = 677.14 SQ.M
2ND FLOOR BUILTUP AREA = 677.14 SQ.M
3RD FLOOR BUILTUP AREA = 677.14 SQ.M
4TH FLOOR BUILTUP AREA = 677.14 SQ.M
5TH FLOOR BUILTUP AREA = 677.14 SQ.M
TOTAL BUILTUP AREA = 3409.13 SQ.M

BLOCK-C

GROUND FLOOR BUILTUP AREA = 23.43 SQ.M
1ST FLOOR BUILTUP AREA = 680.52 SQ.M
2ND FLOOR BUILTUP AREA = 680.52 SQ.M
3RD FLOOR BUILTUP AREA = 680.52 SQ.M
4TH FLOOR BUILTUP AREA = 680.52 SQ.M
5TH FLOOR BUILTUP AREA = 680.52 SQ.M
TOTAL BUILTUP AREA = 3426.03 SQ.M

BLOCK-D

GROUND FLOOR BUILTUP AREA = 26.80 SQ.M
1ST FLOOR BUILTUP AREA = 362.73 SQ.M
2ND FLOOR BUILTUP AREA = 362.73 SQ.M
3RD FLOOR BUILTUP AREA = 362.73 SQ.M
4TH FLOOR BUILTUP AREA = 362.73 SQ.M
5TH FLOOR BUILTUP AREA = 362.73 SQ.M
TOTAL BUILTUP AREA = 1840.45 SQ.M

(BLOCK-A)+(BLOCK-B)+(BLOCK-C)+(BLOCK-D)

3409.13 SQ.M + 3409.13 SQ.M + 3426.03 SQ.M + 1840.45 SQ.M
TOTAL BUILTUP AREA = 12084.74 SQ.M
F.A.R = 12084.74 SQ.M / 5889.85 SQ.M = 2.06
F.A.R = 2.06

E.W.S. REQUIRED

TOTAL BUILTUP AREA X 15% = 12084.74 X 15% = 1812.71 SQ.M

E.W.S. BLOCK-D

GROUND FLOOR BUILTUP AREA = 21.74 SQ.M
1ST FLOOR BUILTUP AREA = 416.82 SQ.M
2ND FLOOR BUILTUP AREA = 416.82 SQ.M
3RD FLOOR BUILTUP AREA = 416.82 SQ.M
4TH FLOOR BUILTUP AREA = 416.82 SQ.M
5TH FLOOR BUILTUP AREA = 416.82 SQ.M
TOTAL BUILTUP AREA = 2108.04 SQ.M

PLOT SETTLEMENT

PROPOSED RESIDENTIAL BUILDING OF
SHREE RANJEET KUMAR, S/O - LATE HIRA LAL SINGH,
(MANAGING DIRECTOR) MAURYA VIHAR BUILDER'S AND
CONSTRUCTIONS PRIVATE LIMITED.
C.S PLOT NO.2003 (PART),2004(PART), 2005(PART)
MAUZA - SIMLI MURARPUR, PATNA
THANA NO.-38
KHATA NO.-289,290,300
TAUZI NO.228
DIST.-PATNA

FIRE LEGEND

1. FIRE RESISTANCE DOOR OF 1HR. FIRE RESISTANCE
2. DOUBLE SWING/SINGLE SWING — F.D —
3. FIRE HYDRANT POINT — (W) —
4. HOSE REEL — (H) —
5. FIRE EXTINGUISHER MARKED CO2 TYPE — CO2 —
6. MANUAL CALL POINT — (M) —
7. P.A. SYSTEM — (P) —
8. UNDER GROUND WATER STATIC TANK OF -80,000 CAPACITY
9. SEAMLESS CONNECTION — (S) —
10. OVER HEAD WATER TANK FOR FIRE FIGHTING 25000 LITER IN EACH BLOCK

Signature
Date: 17/12/2013
सहायक अभियंता
पटना महानगर क्षेत्र प्राधिकार

Patna Metropolitan Area Authority
Sanction of Plan case no. 17/12/2013
Date: 17/12/2013

WATER HARVESTING CALCULATION (BLOCK-A&B)

TERRACE AREA = $677.14 \times 2 = 1354.28 \text{ SQ.Mt}$
REQUIRED W.H CAPACITY 6 CUM FOR 100 SQ.Mt
TERRACE AREA
TOTAL TERRACE(ONE UNIT) = 6677.14 SQ.Mt
REQUIRED WATER HARVESTING $677.14 \times 6 / 100 = 40.62 \times 2$
= 81.24 CUM
PROVIDED WATER HARVESTING SIZE
 $3.00 \times 3.00 \times 5.00 = 45.00 \times 2 = 90.00 \text{ CUM.}$
TOTAL PROVIDED = 90.00 CUM.

WATER HARVESTING CALCULATION (BLOCK-C)

TERRACE AREA = 680.52 SQ.Mt
REQUIRED W.H CAPACITY 6 CUM FOR 100 SQ.Mt
TERRACE AREA
TOTAL TERRACE = 680.52 SQ.Mt
REQUIRED WATER HARVESTING $680.52 \times 6 / 100 = 40.83 \text{ CUM}$
PROVIDES WATER HARVESTING SIZE
 $3.00 \times 3.00 \times 5.00 = 45.00 \text{ CUM.}$
TOTAL PROVIDED = 45.00 CUM.

WATER HARVESTING CALCULATION (BLOCK-D)

TERRACE AREA = 779.55 SQ.Mt
REQUIRED W.H CAPACITY 6 CUM FOR 100 SQ.Mt
TERRACE AREA
TOTAL TERRACE = 779.55 SQ.Mt
REQUIRED WATER HARVESTING $779.55 \times 6 / 100 = 46.77 \text{ CUM}$
PROVIDES WATER HARVESTING SIZE
 $3.50 \times 3.50 \times 5.00 = 61.25 \text{ CUM.}$
TOTAL PROVIDED = 61.25 CUM.

WATER TANK CALCULATION(BLOCK)-D

TOTAL NO. OF FLAT = 25 NOS.
NO. OF PERSON @ 5 PERSONS/FLAT = $5 \times 25 = 125 \text{ PERSONS}$
TOTAL NO. OF PERSONS = 125
WATER NEEDED @ 135LTR/ PERSON = $135 \times 125 = 16875 \text{ LTRS}$
16875 = 16.90 CUM.
PROVIDED WATER TANK SIZE
 $6.05 \times 2.87 \times 1.50 = 26.04 \text{ CUM}$
TOTAL PROVIDED = 26.04 CUM.

SEPTIC TANK CALCULATION (BLOCK-D)

TOTAL NOS OF PERSON @ 5 PERSONS IN EACH FLAT = $5 \times 25 = 125$
REQUIRED @ 0.085 CUM. / PERSON = $180 \times 0.085 = 10.62 \text{ CUM.}$
PROVIDED SEPTIC TANK OF SIZE
 $7.50 \times 2.5 \times 1.5 = 28.12 \text{ CUM.}$
TOTAL = 28.12 CUM.

WATER TANK CALCULATION(BLOCK)-D

TOTAL NO. OF FLAT = 45 NOS.
NO. OF PERSON @ 5 PERSONS/FLAT = $5 \times 45 = 225 \text{ PERSONS}$
TOTAL NO. OF PERSONS = 225
WATER NEEDED @ 135LTR/ PERSON = $135 \times 225 = 30375 \text{ LTRS}$
30375 = 30.38 CUM.
PROVIDED WATER TANK SIZE
 $7.50 \times 2.87 \times 1.50 = 32.28 \text{ CUM.}$
TOTAL PROVIDED = 32.28 CUM.

SEPTIC TANK CALCULATION (BLOCK-D)

TOTAL NOS OF PERSON @ 5 PERSONS IN EACH FLAT = $5 \times 45 = 225$
REQUIRED @ 0.085 CUM. / PERSON = $225 \times 0.085 = 19.125 \text{ CUM.}$
PROVIDED SEPTIC TANK OF SIZE
 $7.50 \times 2.5 \times 1.5 = 28.12 \text{ CUM.}$
TOTAL = 28.12 CUM.