



GREHYUG

Vastu Planning Studio

CONFIDENTIAL
PATENT PENDING

— ARCHITECTURAL CONCEPT BOOK —

A Modern *Vastu* Residence at 50 × 69 ft

PLOT

3,450 sq ft

FACING

NORTHEAST ·
45°

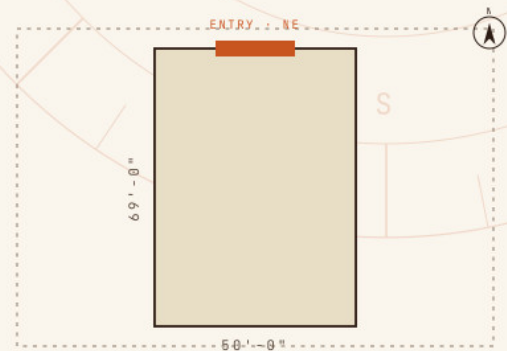
PROGRAMME

3 BHK · Stilt +
1 floor

SITE

SAMPLE SITE

CLIMATE *Composite* · IS 3792



VASTU ENERGY INDEX

77 / 100

● *Balanced.* Architect Review Recommended

The concept needs room-level checks before any professional drafting.



02 • SEVEN-FACTOR BREAKDOWN

WEIGHTED AVERAGE • PER GREHYUG METHODOLOGY

01	Solar Exposure		83 • 20%
02	Thermal Stress		74 • 15%
03	Ventilation		79 • 15%
04	Daylight Factor		72 • 15%
05	Magnetic Alignment		78 • 10%
06	Pada Position		76 • 15%
07	Element Harmony		80 • 10%

STRONGEST

Solar Exposure

Plot orientation favors deep solar access; align glazing accordingly.

WATCH

Daylight Factor

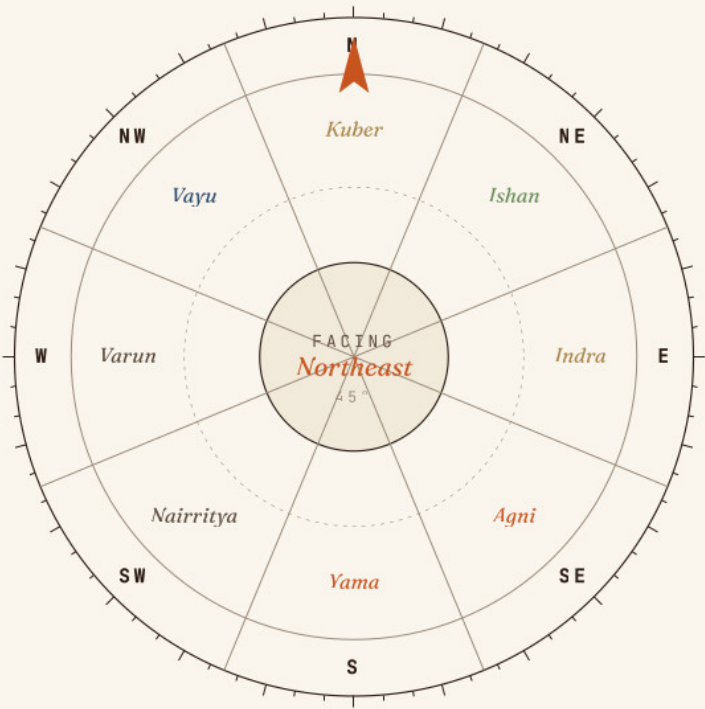
Add east aperture and review sill heights on south/west.

ACTION

Architect
Coordination

The Eight *Directions*

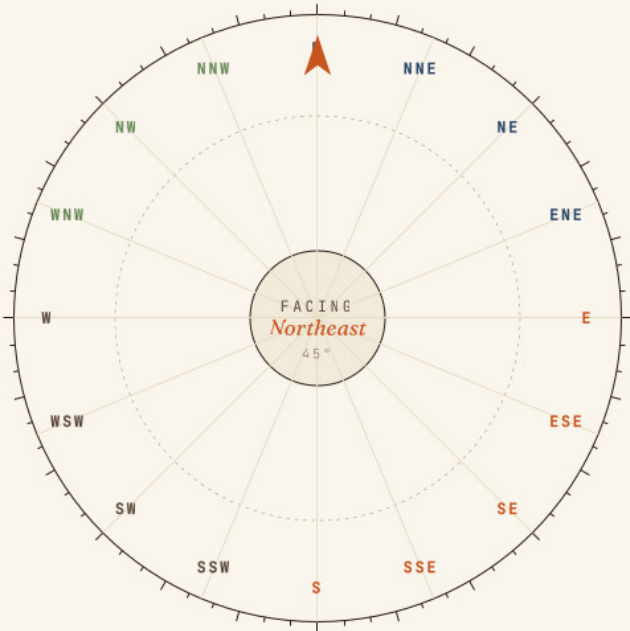
Each cardinal and ordinal bears a presiding deity, an element, and a programme.
The compass below maps Grehyug's recommended placements at this orientation.



N <i>Kuber</i> Drawing · Treasury	कुबेर	NE <i>Ishan</i> Pooja · Meditation	ईशान
E <i>Indra</i> Drawing · Entry	इन्द्र	SE <i>Agni</i> Kitchen · Fire	अग्नि
S <i>Yama</i> Dining · Storage	यम	SW <i>Nairritya</i> Master Bedroom	नैऋत्य
W <i>Varun</i> Children Bed	वरुण	NW <i>Vayu</i> Guest · Utility	वायु

Score 77% · 16-direction guidance · per Vastu Shastra

16-Direction *Compass Map*



EVERY 22.5°

N 0.0° <i>Wealth & Opportunities</i> Living, Treasury, Entrance	<i>Jal</i>	NNE 22.5° <i>Health & Immunity</i> Pooja Entrance, Safe	<i>Jal</i>
NE 45.0° <i>Clarity & Wisdom</i> Pooja, Meditation, Water	<i>Jal</i>	ENE 67.5° <i>Fun & Entertainment</i> Toilet (common), Washing	<i>Jal</i>
E 90.0° <i>Social Connections</i> Drawing, Entry, Balcony	<i>Agni</i>	ESE 112.5° <i>Confidence & Churning</i> Study, Home Office	<i>Agni</i>
SE 135.0° <i>Health from Cooked Food</i> Kitchen, Hearth, Boiler	<i>Agni</i>	SSE 157.5° <i>Liquidity & Cash</i> Toilet (private), Vault	<i>Agni</i>
S 180.0° <i>Storage & Discipline</i> Dining, Storage, Wardrobe	<i>Agni</i>	SSW 202.5° <i>Disposal & Loss</i> Toilet, Trash, Septic	<i>Prithvi</i>
SW 225.0° <i>Stability & Mass</i> Master Bedroom, Heavy Storage	<i>Prithvi</i>	WSW 247.5° <i>Education</i> Study, Library	<i>Prithvi</i>
W 270.0° <i>Children & Gains</i> Children Bed, Guest	<i>Prithvi</i>	WNW 292.5° <i>Profits & Income</i> Home Office, Bedroom	<i>Vayu</i>
NW 315.0° <i>Friends & Mobility</i> Guest, Utility, Garage	<i>Vayu</i>	NNW 337.5° <i>Travel & Movement</i> Toilet (visitor), Lobby	<i>Vayu</i>

3 BHK • NORTHEAST • 45° • key directional reminders for the architect

Vastu Remedies

NE • ISHANYA GOOD ईशान्य <i>Ishana</i> Light & Pooja - Keep NE light and uncluttered - Verify pooja placement with architect - Avoid heavy storage in NE	SE • AGNEYA CHECK आग्नेय <i>Agni</i> Kitchen Fire - Cooktop ideally in SE zone - Separate sink and stove if possible - Check ventilation and exhaust	SW • NAIRUTYA CHECK नैऋत्य <i>Niruti</i> Master Stability - Prefer master/private rooms in SW - Use heavier wardrobes on SW walls - Avoid water-heavy use here
---	---	---

SEVERITY GUIDE

GOOD — Standard guidance, no remediation required

CHECK — Architect to verify on site

REVIEW — Vastu suggests a refinement when feasible

01

Site & Layout

Plot orientation, room placement, circulation and the Vastu zoning that drives every move on the floor below.

IN THIS PART

- 07 *Stilt Parking Plan*
- 08 *Ground Floor Plan*
- 09 *Cross Section*
- 10 *Front Elevation*
- 11 *Area Statement*

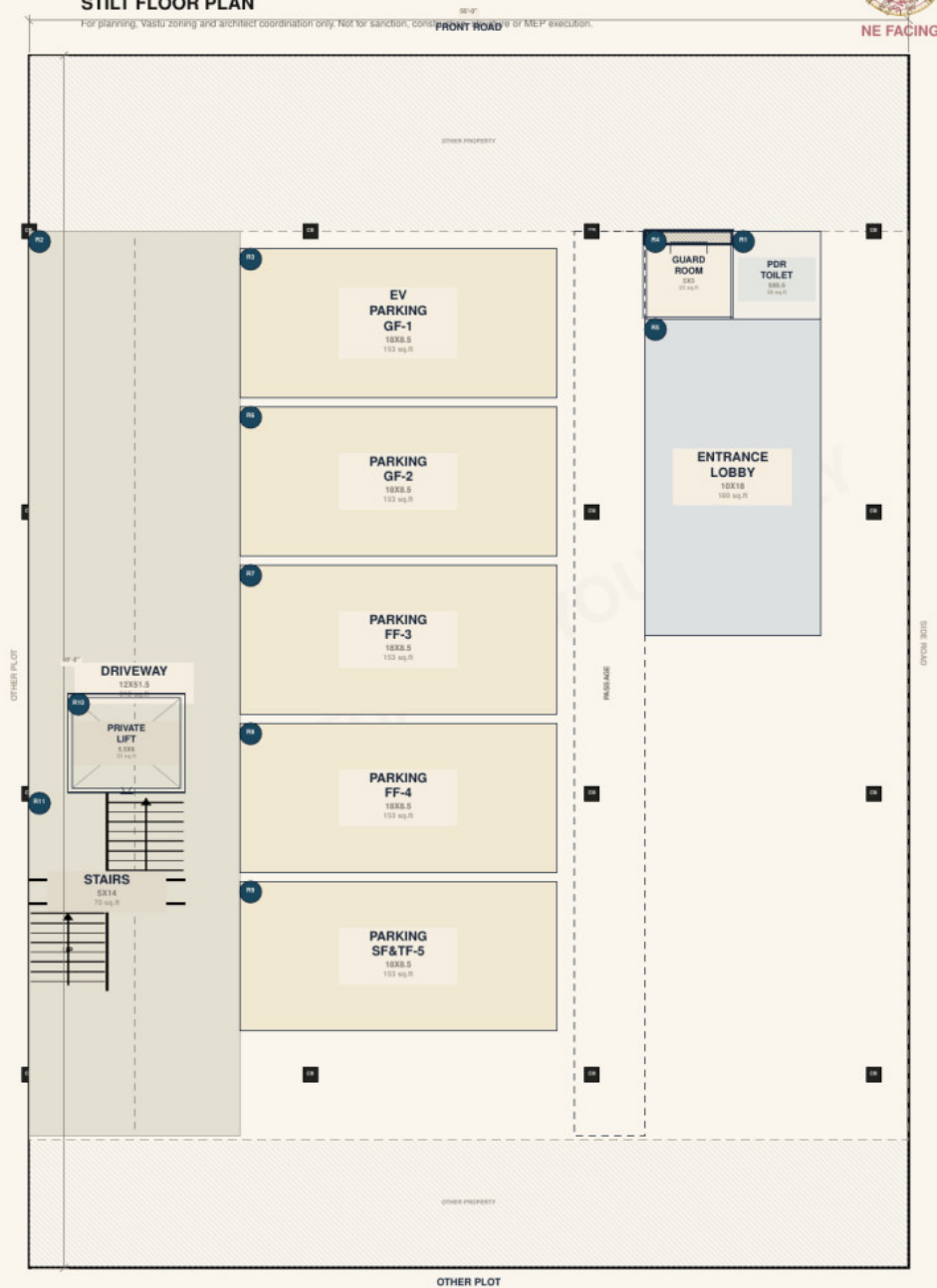


GREHYUG

Conceptual vastu Layout Only

STILT FLOOR PLAN

For planning, vastu zoning and architect coordination only. Not for sanction, construction or MEP execution.



OTHER PLOT

GREHYUG	STILT FLOOR PLAN	PLOT / FACING	SCALE	SHEET
Conceptual vastu Planning Sheet	50'x69'45" NORTHEAST	50' x 69' / NORTHEAST		1/7
Site: MODEL TOWN	3BHK	DRAWING NO.	DATE	REV
NOT FOR SANCTION / CONSTRUCTION	Internal vastu Score: 77%	GY-C-N-50X69-01	12/7/2026	A
Final drawings by licensed professionals.				

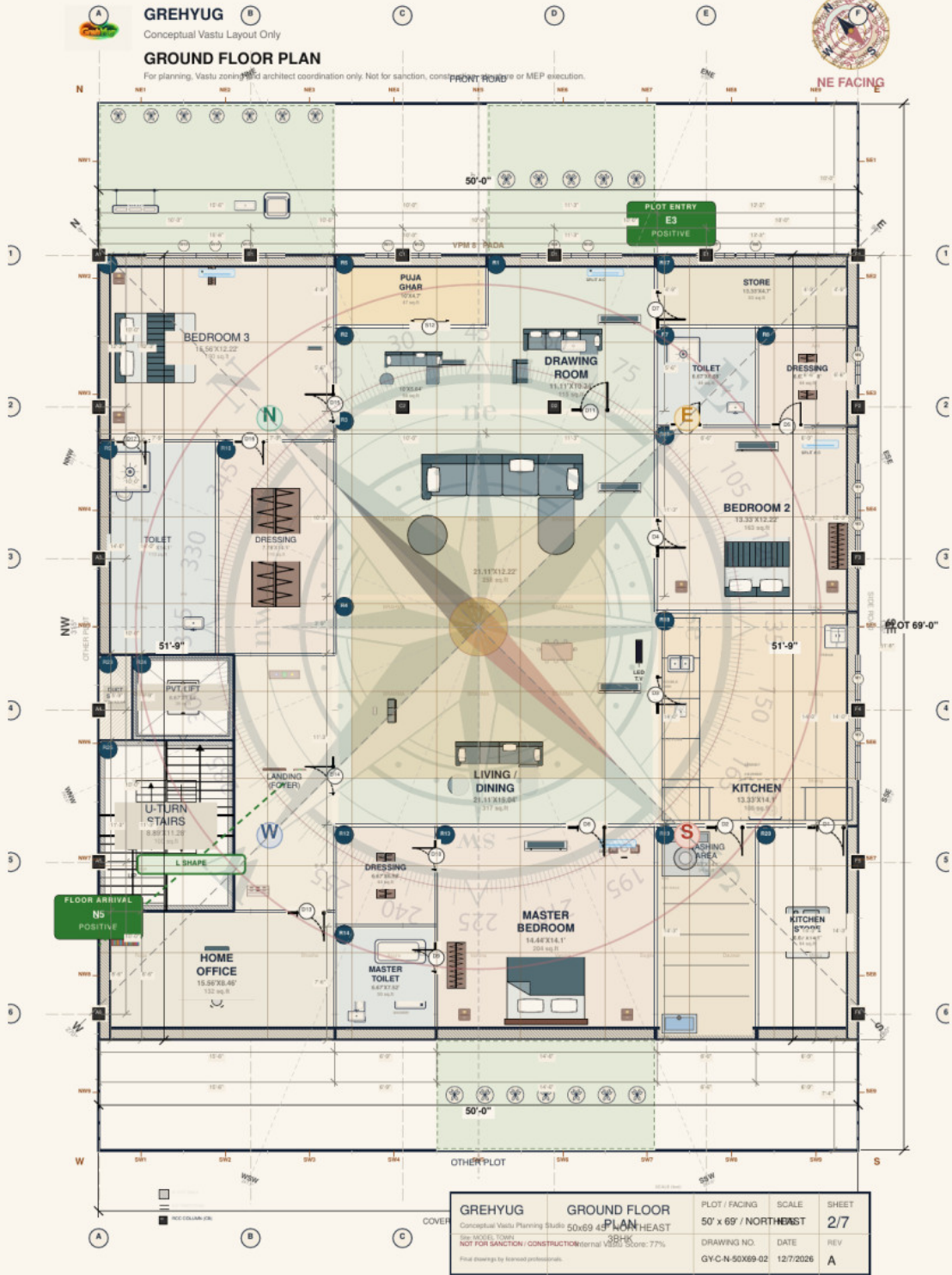
DRAWING • GY-C-NE-50x69-08

Ground Floor *Plan*



45° NORTHEAST
FACING

engine: neFacingPlotPlan - content: vastu_optimal - facing: NE



SECTION A-A • 3 BHK • NORTHEAST

Cross *Section*

SCALE • NTS
FLOOR HT • 10'
TOTAL HT • 23.0'

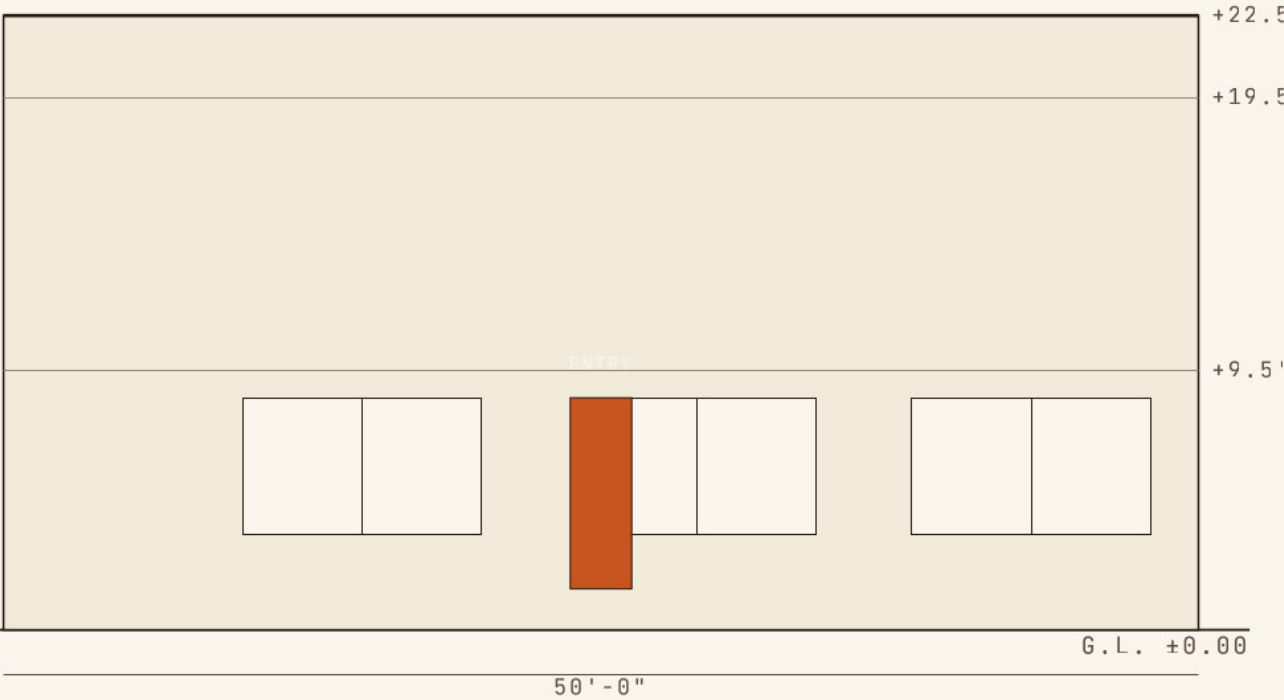


NORTHEAST-FACING ELEVATION • 3 BHK

Front *Elevation*



45° NORTHEAST
FACING



3 BHK • NORTHEAST • 45° • 50 × 69 ft

Area Statement

23
ROOMS

01 • Per-Room Area Statement

S.NO	ROOM	WIDTH	DEPTH	AREA	ZONE
01	Kitchen Store	5'-7"	13'-0"	72 sf	SERVICE
02	Washing Area	5'-8"	12'-10"	73 sf	SERVICE
03	Kitchen	12'-2"	13'-4"	163 sf	SERVICE
04	Bedroom 2	12'-2"	11'-6"	140 sf	PRIVATE
05	Wardrobe	5'-7"	5'-10"	32 sf	—
06	Toilet	5'-8"	5'-7"	32 sf	WET
07	Store	12'-2"	3'-7"	44 sf	SERVICE
08	Master Bedroom	13'-8"	13'-0"	178 sf	PRIVATE
09	Master Toilet	5'-8"	6'-3"	36 sf	WET
10	Dressing	5'-11"	5'-10"	35 sf	—
11	Living / Dining	20'-4"	14'-3"	291 sf	SOCIAL
12	Family Lounge	20'-4"	11'-6"	234 sf	SOCIAL
13	Drawing Room	10'-4"	9'-3"	95 sf	SOCIAL
14	Family Lounge	9'-3"	4'-11"	45 sf	SOCIAL
15	Puja Ghar	9'-3"	3'-7"	33 sf	SACRED
16	Home Office	14'-5"	7'-4"	106 sf	—
17	Landing (Foyer)	5'-11"	16'-2"	96 sf	—
18	U-Turn Stairs	7'-9"	10'-6"	82 sf	CIRC
19	Pvt. Lift	5'-11"	4'-11"	29 sf	CIRC
20	Duct Shaft	1'-1"	4'-11"	5 sf	—
21	Bedroom 3	14'-5"	11'-1"	160 sf	PRIVATE
22	Wardrobe	7'-0"	13'-4"	94 sf	—
23	Toilet	6'-6"	13'-1"	86 sf	WET

02 • Area Calculation Summary

Carpet Area	2,161 sq ft
Built-up Area • covered footprint	2,585 sq ft
Super Built-up • × 1.15	2,973 sq ft
Carpet Efficiency • carpet ÷ built-up	84%

03 • FAR & Coverage (per local bylaw)

Plot Area • 321 sqm	3,450 sq ft
FAR Limit • tier-based	225%
FAR Used • excl. stairs/lift/shaft/mumty • 150 sq ft	71%
Habitable Floors	1

Score 77% • Balanced

Per-Room *Vastu Audit*

01 • Room-by-Room Compliance

S.NO	ROOM	ACTUAL	IDEAL	STATUS	REMARK
01	Sit-Out	ENE • Parjanya	ENE	ALIGNED	ENE • pada E2 (Parjanya) — Vayu room, element-aligned per the 32-pada calc
02	Balcony	N • Soma	NE	ACCEPTABLE	N • pada N5 (Soma) — acceptable on the 32-pada element calc; ideal zone NE
03	Kitchen Store	S • Grihrakshita	S	ALIGNED	S • pada S4 (Grihrakshita) — Vayu room, element-aligned per the 32-pada calc
04	Washing Area	S • Grihrakshita	S	ALIGNED	S • pada S4 (Grihrakshita) — Vayu room, element-aligned per the 32-pada calc
05	Kitchen	SSE • Pusha	SSE	ALIGNED	SSE • pada S2 (Pusha) — Agni room, element-aligned per the 32-pada calc
06	Bedroom 2	ESE • Bhrisha	W, NW, SW	REVIEW	ESE • pada E7 (Bhrisha) — 32-pada calc suggests refining toward W, NW, SW
07	Wardrobe	ESE • Satya	—	—	Not Vastu-classified — no traditional placement rule for this space
08	Toilet	E • Surya	NW	REVIEW	E • pada E5 (Surya) — 32-pada calc suggests refining toward NW
09	Store	E • Surya	NW	REVIEW	E • pada E5 (Surya) — 32-pada calc suggests refining toward NW
10	Master Bedroom	SSW • Bhringraj	SSW	ALIGNED	SSW • pada S7 (Bhringraj) — Prithvi room, element-aligned per the 32-pada calc
11	Master Toilet	WSW • Dauwarik	WSW	ALIGNED	WSW • pada W2 (Dauwarik) — Vayu room, element-aligned per the 32-pada calc
12	Dressing	WSW • Sugriva	—	—	Not Vastu-classified — no traditional placement rule for this space
13	Living / Dining	CENTER • Bhringraj	N, NE	ACCEPTABLE	CENTER • pada S7 (Bhringraj) — acceptable on the 32-pada element calc; ideal zone N, NE
14	Family Lounge	CENTER • Shikhi	CENTER	ALIGNED	CENTER • pada E1 (Shikhi) — Jala room, element-aligned per the 32-pada calc
15	Drawing Room	ENE • Jayant	ENE	ALIGNED	ENE • pada E3 (Jayant) — Jala room, element-aligned per the 32-pada calc

Score 77% · Balanced

Per-Room *Vastu Audit*

01 · Room-by-Room Compliance (cont. 2)

S.NO	ROOM	ACTUAL	IDEAL	STATUS	REMARK
17	Puja Ghar	NNE · Aditi	NNE	ALIGNED	NNE · pada N7 (Aditi) — Jala room, element-aligned per the 32-pada calc
18	Home Office	W · Varuna	E, W, SE	ACCEPTABLE	W · pada W5 (Varuna) — acceptable on the 32-pada element calc; ideal zone E, W, SE
19	Landing (Foyer)	WNW · Asura	WNW	ALIGNED	WNW · pada W6 (Asura) — Jala room, element-aligned per the 32-pada calc
20	U-Turn Stairs	WNW · Asura	SW	ACCEPTABLE	WNW · pada W6 (Asura) — acceptable on the 32-pada element calc; ideal zone SW
21	Pvt. Lift	NW · Papyakshama	SW	ACCEPTABLE	NW · pada W8 (Papyakshama) — acceptable on the 32-pada element calc; ideal zone SW
22	Duct Shaft	NW · Papyakshama	—	—	Not Vastu-classified — no traditional placement rule for this space
23	Bedroom 3	N · Bhallat	N	ALIGNED	N · pada N4 (Bhallat) — Prithvi room, element-aligned per the 32-pada calc
24	Wardrobe	NNW · Naga	—	—	Not Vastu-classified — no traditional placement rule for this space
25	Toilet	NW · Roga	NW	ALIGNED	NW · pada N1 (Roga) — Vayu room, element-aligned per the 32-pada calc
26	Balcony	SW · Mriga	NE	REVIEW	SW · pada S8 (Mriga) — 32-pada calc suggests refining toward NE

26

TOTAL SCORED

13

ALIGNED

5

ACCEPTABLE

4

TO REVIEW

LEGEND

ALIGNED — sits in the traditional Vastu band

ACCEPTABLE — permissible secondary zone

REVIEW — see Recommendations on the next sheet

Score 77% · 4 priority + optional refinements

Per-Room Recommendations

PRIORITYOPTIONALCOSMETIC

Vastu placement is aspirational — most modern Indian homes don't achieve textbook 100% alignment, and a Vastu-aligned home is not a binary outcome. The layout is structurally sound and fully habitable as drawn. The notes below are refinement opportunities: directional swaps classical Vastu suggests when the room program permits, alongside well-known remedies for rooms that stay in place.

01

Toilet

PRIORITY

CURRENT

E · Surya

Vayu element

VASTU SUGGESTS

NW

Vayu · Vayu element

Toilet positions outside NW are common in modern apartments and homes — most contemporary Indian houses live with this without difficulty. Vastu offers an optional refinement and a set of well-known remedies when the position cannot move.

REFINEMENT · In NW (Vayu · Vayu) consider relocating to NW where the plumbing routing permits.

IF KEPT · Where the toilet stays put, the four traditional remedies are: keep the toilet door always closed, run the exhaust whenever in use, ensure the toilet does not share a wall with a pooja or kitchen, and place a small bowl of rock salt inside (changed weekly).

02

Bedroom 2

OPTIONAL

CURRENT

ESE · Bhrisha

Prithvi element

VASTU SUGGESTS

W, NW, SW

Varun · Prithvi element

Other bedroom positions are fully usable; this is an optional refinement.

REFINEMENT · In W (Varun · Prithvi) consider W or NW for children's primary sleeping rooms.

IF KEPT · Bed-head south, study desk facing east, and a clear NE corner of the room support the traditional reading.

Sourced from Manasara, Mayamatam, and Vastu Shastra teaching tradition. Phrased as architect's notes for design coordination — not religious or astrological instruction. A licensed Vastu consultant should validate before sanction.

Score 77% · 4 priority + optional refinements

Per-Room

Recommendations

PRIORITY

OPTIONAL

COSMETIC

03	Store COSMETIC CURRENT <i>E · Surya</i> Prithvi element <i>Store position is fully flexible.</i> REFINEMENT · In NW (Vayu · Vayu) use NW for daily-use, SW for archival when the layout permits. IF KEPT · Keep frequently-used items toward NW; archival items toward SW. Avoid storing water or perishables in SE.	VASTU SUGGESTS <i>NW</i> Vayu · Vayu element
04	Balcony COSMETIC CURRENT <i>SW · Mriga</i> Vayu element <i>Balcony position is flexible; this is a soft refinement.</i> REFINEMENT · In NE (Ishan · Jal) favour N / NE faces for primary balconies where the elevation permits. IF KEPT · Plant tulsi or curry-leaf in the NE balcony; light wind-chimes welcome.	VASTU SUGGESTS <i>NE</i> Ishan · Jal element

Sourced from Manasara, Mayamatam, and Vastu Shastra teaching tradition. Phrased as architect's notes for design coordination — not religious or astrological instruction. A licensed Vastu consultant should validate before sanction.

02

Services & Compliance

Joinery, plumbing risers, electrical points, fire safety, structural columns and parking — drawn against NBC 2016 and IGBC Green Homes v3.0.

IN THIS PART

17	.....	<i>Door & Window Schedule</i>
18	.....	<i>Plumbing Schematic</i>
19	.....	<i>Plumbing Point Layout</i>
20	.....	<i>Plumbing Risers</i>
21	.....	<i>Electrical Point Layout</i>
22	.....	<i>Electrical Schedule</i>
23	.....	<i>Structural</i>
24	.....	<i>Fire Safety</i>

17 doors • 15 windows on next sheet • per IS 4021

Door *Schedule*

17

DOORS

01 • Door Schedule

MARK	FLOOR	ROOM	WIDTH	HEIGHT	TYPE	MATERIAL	SWING
D1	GF	Kitchen Store	2'-6"	7'-0"	Panel	Teak / Sal	N-wall
D2	GF	Washing Area	2'-6"	7'-0"	Panel	Teak / Sal	N-wall
D3	GF	Kitchen	2'-6"	7'-0"	Panel	Teak / Sal	W-wall
D4	GF	Bedroom 2	2'-6"	7'-0"	Panel	Teak / Sal	W-wall
D5	GF	Wardrobe	2'-0"	7'-0"	Panel	Teak / Sal	S-wall
D6	GF	Toilet	2'-0"	7'-0"	Flush	WPC / PVC	S-wall
D7	GF	Store	2'-6"	7'-0"	Panel	Teak / Sal	W-wall
D8	GF	Master Bedroom	2'-6"	7'-6"	Panel	Teak / Sal	N-wall
D9	GF	Master Toilet	2'-0"	7'-6"	Flush	WPC / PVC	E-wall
D10	GF	Dressing	2'-0"	7'-0"	Panel	Teak / Sal	E-wall
D11	GF	Drawing Room	2'-6"	7'-6"	Panel	Teak / Sal	S-wall
S12	GF	Puja Ghar	2'-6"	7'-0"	Sliding	Teak / Sal	S-wall
D13	GF	Home Office	2'-6"	7'-0"	Panel	Teak / Sal	N-wall
D14	GF	Landing (Foyer)	2'-6"	7'-0"	Panel	Teak / Sal	E-wall
D15	GF	Bedroom 3	2'-6"	7'-0"	Panel	Teak / Sal	E-wall
D16	GF	Wardrobe	2'-0"	7'-0"	Panel	Teak / Sal	N-wall
D17	GF	Toilet	2'-0"	7'-0"	Flush	WPC / PVC	N-wall

Door heights default 7'-0"; main entrance / master / drawing 7'-6" • panel-leaf with teak / sal frame for habitable rooms; flush-leaf with WPC for wet rooms
• external walls 9" burnt-clay brick or AAC block, internal partitions 4½".

15 windows • 17 doors on previous sheet • per IS 4021

Window *Schedule*

15
WINDOWS

02 • Window Schedule

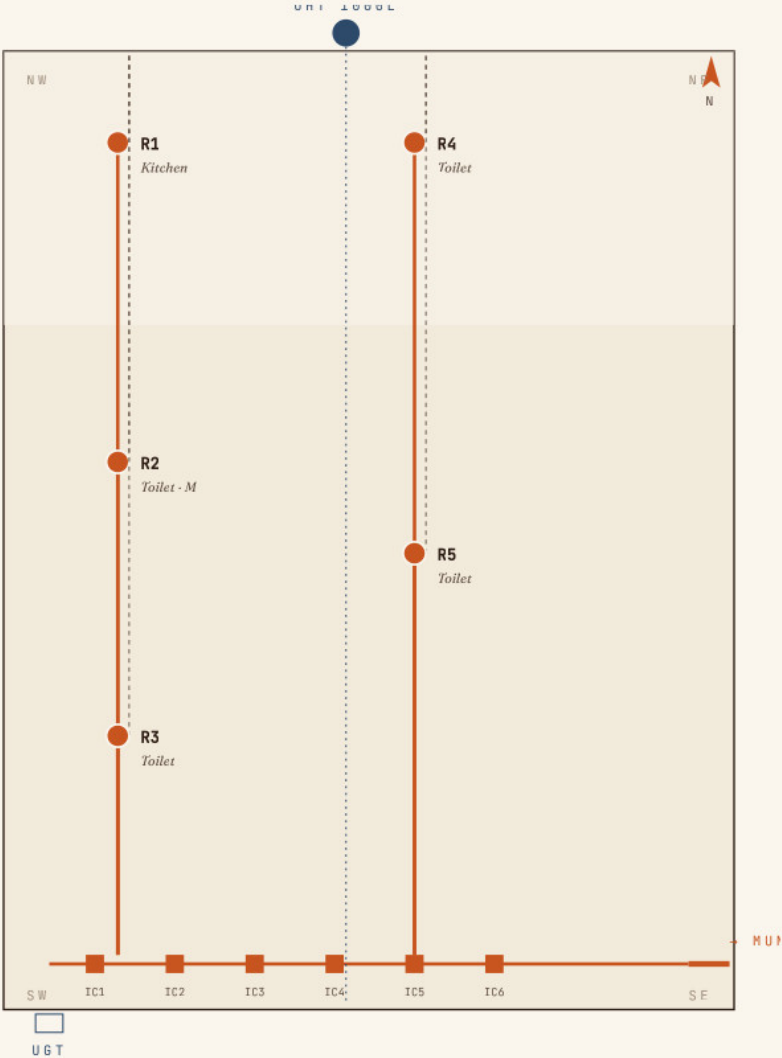
MARK	FLOOR	ROOM	DIR	WIDTH	SILL HT	TYPE	GLAZING
W1	GF	Kitchen	E	4'-6"	2'-6"	Sliding 2T	Clear
W2	GF	Kitchen	E	4'-6"	2'-6"	Sliding 2T	Clear
W3	GF	Kitchen	E	4'-6"	2'-6"	Sliding 2T	Clear
W4	GF	Bedroom 2	E	4'-6"	2'-6"	Sliding 2T	Clear
W5	GF	Bedroom 2	E	4'-6"	2'-6"	Sliding 2T	Clear
W6	GF	Wardrobe	E	2'-6"	2'-6"	Sliding 2T	Clear
W7	GF	Store	N	2'-6"	2'-6"	Sliding 2T	Clear
W8	GF	Store	N	2'-6"	2'-6"	Sliding 2T	Clear
W9	GF	Drawing Room	N	4'-5"	2'-6"	Sliding 2T	Clear
W10	GF	Drawing Room	N	4'-5"	2'-6"	Sliding 2T	Clear
W11	GF	Puja Ghar	N	3'-0"	2'-6"	Sliding 2T	Clear
W12	GF	Puja Ghar	N	3'-0"	2'-6"	Sliding 2T	Clear
W13	GF	Bedroom 3	N	5'-0"	2'-6"	Sliding 2T	Clear
W14	GF	Bedroom 3	N	5'-0"	2'-6"	Sliding 2T	Clear
W15	GF	Bedroom 3	N	5'-0"	2'-6"	Sliding 2T	Clear

NOTES • Window sills, glazing and type per IS 3792 • COMPOSITE climate zone (hot summers, cold winters, monsoon — three distinct seasons. • WWR 15–20% • clear n/e + tinted s/w). Door heights default 7'-0"; main entrance / master / drawing 7'-6" • external walls 9" burnt-clay brick or AAC block, internal partitions 4½".

SCHEMATIC • GY-C-NE-50×69-05

Plumbing *Schematic*

80%
STACKING SCORE



LEGEND

- Water Supply Point
- Drain / Floor Trap
- WC Fixture
- Inspection Chamber
- Cold-Water Line
- Soil / Waste Line
- Vent Pipe to Terrace

SUMMARY

Risers	5 stacks
Wet Rooms Aligned	4 / 5
Stacking Score	80%
Inspection Chambers	6 nos
Underground Run	70 m
Soil Stack	4" PVC SWR Type B

NOTE

5 risers across one floor is high — wet rooms are not vertically grouped. Consolidating to 3 stacks would reduce trunk-drain run by $\approx 35\%$.

5 risers · 6 ICs · stacking 80%

Plumbing Point *Layout*

GREYNUG AI RESIDENTIAL REPORT

SUGGESTED PLUMBING POINT LAYOUT

14.7 redundant 31 points of checks, 70 boundary errors

The diagram illustrates a floor plan with various rooms including bedrooms, living areas, a kitchen, and a garage. It shows the suggested placement of plumbing points (blue dots) and the network of pipes (green lines) connecting them. Key features include:

- Water Supply Points:** Indicated by blue dots throughout the plan.
- Drain Points:** Indicated by green squares with an 'X'.
- Pipes:** Green lines showing the layout of the plumbing network.
- Legend:** A 'PLUMBING LEGEND' on the right side defines the symbols used: Water Supply Point, Drain Point, Floor Trap, WC Fixture, Basin, Shower Point, Kitchen Sink, Floor Pan, Bath / Tubs, Main Drain Trunk, Branch Drain, and Inspection Chamber.

For planning purposes only. Detailed engineering by licensed contractor required. Ref: G5 4646, G5 730, NSIC 2016.

Powered by Greynug AI | www.greynug.com

Page 46

SYMBOL LEGEND

● Riser stack ■ Inspection chamber — Soil/waste line

VALIDATION

38 fixture units · 6 ICs

Excellent

5 risers • stacking 80% • Excellent

Riser Schedule

01 • Riser-by-Riser Schedule

RISER	ANCHORED	WET ROOMS	FU/FLR	FU TOT	WC	KIT	POSITION
RISER-1	external wall	WASHING AREA	5	5	—	—	(40', 55')
RISER-2	external wall	KITCHEN	3	3	—	YES	(43', 41')
RISER-3	external wall	TOILET	10	10	YES	—	(40', 18')
RISER-4	external wall	MASTER TOILET	10	10	YES	—	(19', 58')
RISER-5	external wall	TOILET	10	10	YES	—	(4', 29')

5

RISERS

6

INSPECTION CH.

80%

STACKING SCORE

4" PVC
SWR Type
B

SOIL STACK

02 • Pipe & Component Schedule

DIAMETER	MATERIAL	LENGTH	DESCRIPTION
1.25"	CPVC/GI	100 ft	Main supply riser from OHT
3"	PVC SWR Type A	100 ft	Waste stack (basin, sink, shower)
0.5"	CPVC	80 ft	To individual fixture
3"	PVC SWR Type A	63 ft	Vent pipe (to terrace)
4"	PVC SWR Type B	60 ft	Soil stack (WC waste)
1"	CPVC	40 ft	Horizontal branch to wet room group
0.75"	CPVC	30 ft	Hot water line (geyser to fixtures)
2"	PVC SWR	10 ft	Kitchen waste (to grease trap)

03 • Water Storage

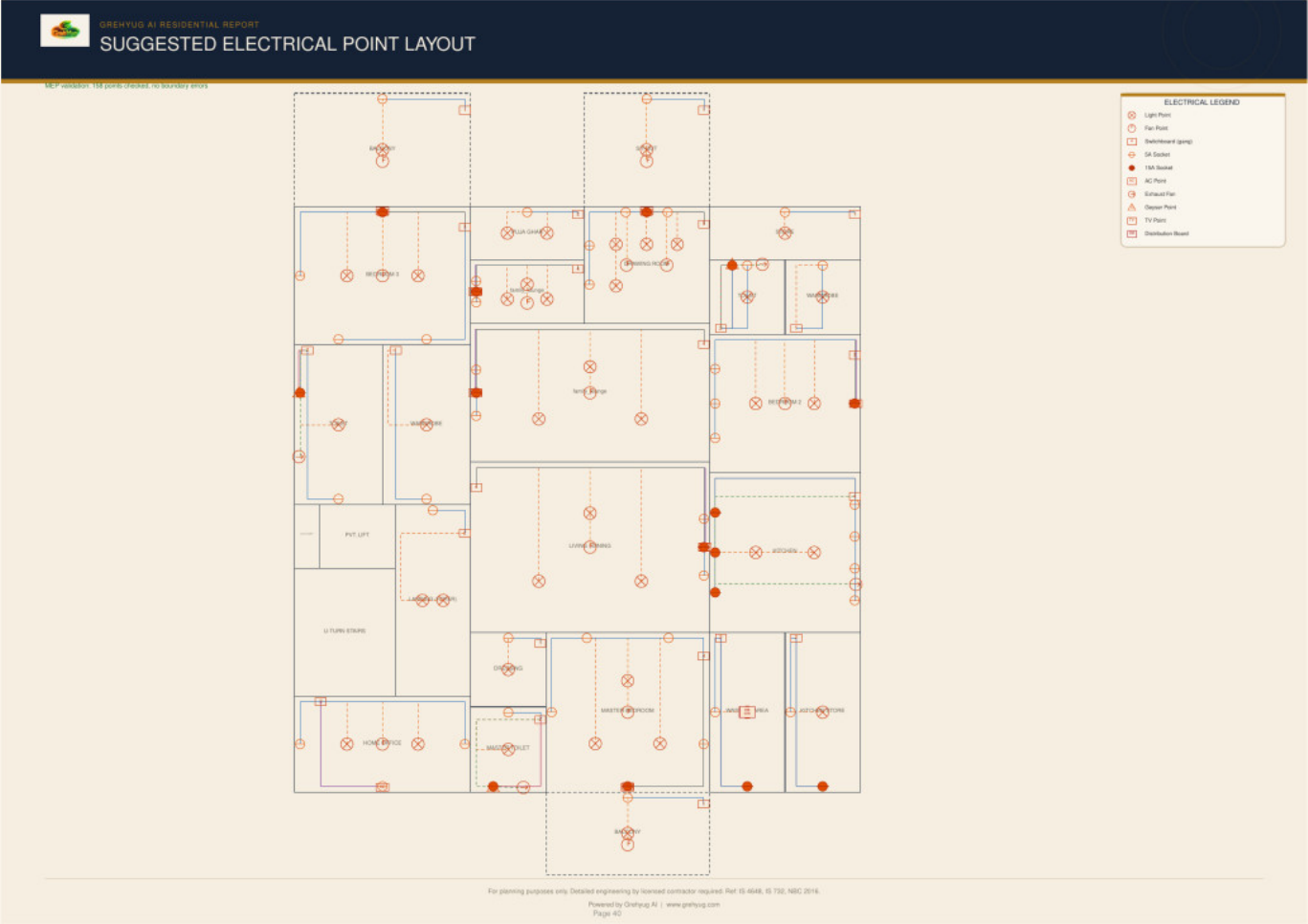
OHT (Overhead Tank) 1000L • Sintex/LLDPE (on terrace)

UGT (Underground) 1000L • RCC (below stilt)

Pump 0.5 HP • Self-priming centrifugal or submersible

216 points · DB 32-way · MAIN MCB 63 · 63A/100mA

Electrical Point *Layout*



SYMBOL LEGEND

- Light point

AC

AC point
- F**

Ceiling fan

TV

TV/USB
- 5**

5A socket

E

Exhaust fan
- 6**

15A socket

VALIDATION

216 points checked · no boundary errors

DB 32 WAY · 28 CIRCUITS

IS 4648 • IS 732 • DB 32-WAY • MAIN MCB 63 • 63A/100mA

Electrical *Schedule*

01 • Room-Wise Points & Load (10 ft floor height)

ROOM	LIGHT	5A SKT	15A SKT	AC	EXH	GEYSER	KIT	WASH	PTS	LOAD W	WIRE FT
SIT-OUT	2	1	0	0	0	0	0	0	4	215	173
BALCONY	2	1	0	0	0	0	0	0	4	215	226
WASHING AREA	1	2	1	0	0	0	0	1	7	1740	73
KITCHEN	2	4	3	0	1	0	3	0	17	4030	327
BEDROOM 2	3	6	1	1	0	0	0	0	14	3120	317
WARDROBE	1	1	0	0	0	0	0	0	3	140	114
TOILET	1	1	1	0	1	1	0	0	7	3180	250
STORE	1	1	0	0	0	0	0	0	3	140	124
MASTER BEDROOM	4	9	1	1	0	0	0	0	19	3275	327
MASTER TOILET	1	1	1	0	1	1	0	0	7	3180	191
DRESSING	1	1	0	0	0	0	0	0	3	140	77
LIVING / DINING	4	6	1	1	0	0	0	0	16	3160	398
Family Lounge	4	6	1	1	0	0	0	0	16	3160	436
DRAWING ROOM	6	10	2	1	0	0	0	0	24	4490	493
Family Lounge	4	6	1	1	0	0	0	0	16	3160	388
PUJA GHAR	2	1	0	0	0	0	0	0	5	180	173
HOME OFFICE	3	6	0	1	0	0	0	0	13	1980	278
LANDING (FOYER)	2	1	0	0	0	0	0	0	6	190	139
U-TURN STAIRS	2	0	0	0	0	0	0	0	4	80	132
BEDROOM 3	3	6	1	1	0	0	0	0	14	3120	490
WARDROBE	1	1	0	0	0	0	0	0	3	140	144
TOILET	1	1	1	0	1	1	0	0	7	3180	395
BALCONY	2	1	0	0	0	0	0	0	4	215	99

| 216 | 1106117 | 006117 | 20

Grid 12.5' x 12.93' . 25 columns . M20 / Fe500

Column *Layout*

Consultant's design only. Not for construction.
Not for use in any other project.
Not for use in any other project.

Revised: 12/12/2012. This report is prepared only for the project specified. Any other use is unauthorized. All rights reserved. All rights reserved.

Page 14

12.5'	12.93'	25	M20 / Fe500
GRID X	GRID Y	COLUMNS	GRADE

LEGEND

■ RCC Column - - - - Structural Grid

Grid 12.5' × 12.93' · 25 columns · M20 / Fe500

Column *Schedule*

01 · Column Schedule (IS 456:2000)

MARK	TYPE	POSITION	TRIB	LOAD	SIZE	REBAR	TIES
A1	Corner	(0', 10')	40 sf	126 kN	9x9	4-12mm	8mm @ 150mm c/c
A2	Edge	(0', 23')	81 sf	225 kN	9x12	4-12mm + 2-12mm	8mm @ 150mm c/c
A3	Edge	(0', 36')	81 sf	225 kN	9x12	4-12mm + 2-12mm	8mm @ 150mm c/c
A4	Edge	(0', 49')	81 sf	225 kN	9x12	4-12mm + 2-12mm	8mm @ 150mm c/c
A5	Corner	(0', 62')	40 sf	126 kN	9x9	4-12mm	8mm @ 150mm c/c
B1	Edge	(13', 10')	81 sf	225 kN	9x12	4-12mm + 2-12mm	8mm @ 150mm c/c
B2	Interior	(13', 23')	162 sf	392 kN	9x12	6-12mm	8mm @ 150mm c/c
B3	Interior	(13', 36')	162 sf	392 kN	9x12	6-12mm	8mm @ 150mm c/c
B4	Interior	(13', 49')	162 sf	392 kN	9x12	6-12mm	8mm @ 150mm c/c
B5	Edge	(13', 62')	81 sf	225 kN	9x12	4-12mm + 2-12mm	8mm @ 150mm c/c
C1	Edge	(25', 10')	81 sf	225 kN	9x12	4-12mm + 2-12mm	8mm @ 150mm c/c
C2	Interior	(25', 23')	162 sf	392 kN	9x12	6-12mm	8mm @ 150mm c/c
C3	Interior	(25', 36')	162 sf	392 kN	9x12	6-12mm	8mm @ 150mm c/c
C4	Interior	(25', 49')	162 sf	392 kN	9x12	6-12mm	8mm @ 150mm c/c
C5	Edge	(25', 62')	81 sf	225 kN	9x12	4-12mm + 2-12mm	8mm @ 150mm c/c
D1	Edge	(38', 10')	81 sf	225 kN	9x12	4-12mm + 2-12mm	8mm @ 150mm c/c
D2	Interior	(38', 23')	162 sf	392 kN	9x12	6-12mm	8mm @ 150mm c/c
D3	Interior	(38', 36')	162 sf	392 kN	9x12	6-12mm	8mm @ 150mm c/c
D4	Interior	(38', 49')	162 sf	392 kN	9x12	6-12mm	8mm @ 150mm c/c
D5	Edge	(38', 62')	81 sf	225 kN	9x12	4-12mm + 2-12mm	8mm @ 150mm c/c
E1	Corner	(50', 10')	40 sf	126 kN	9x9	4-12mm	8mm @ 150mm c/c
E2	Edge	(50', 23')	81 sf	225 kN	9x12	4-12mm + 2-12mm	8mm @ 150mm c/c
E3	Edge	(50', 36')	81 sf	225 kN	9x12	4-12mm + 2-12mm	8mm @ 150mm c/c
E4	Edge	(50', 49')	81 sf	225 kN	9x12	4-12mm + 2-12mm	8mm @ 150mm c/c
E5	Corner	(50', 62')	40 sf	126 kN	9x9	4-12mm	8mm @ 150mm c/c

40 beams · slab + foundation · M20 / Fe500

Beam · Slab · *Foundation*

01 · Beam Schedule

SIZE	SPAN	COUNT	DIRECTION
9x15 (230 × 380mm)	12.5 ft	40 nos	X

02 · Slab Specification

Slab Type	Two-way
Panel Count · Most common residential slab (standard)	16 panels/floor
Thickness	6" (150 mm)
Concrete Grade	M20

03 · Foundation

Foundation Type	Isolated Footing
Footing Size · SBC 150 kN/m ²	4.6' × 4.6'
Depth Below GL	3.3 ft
Concrete Grade · Clear cover 50 mm	M20

04 · Footing Schedule — per column load (first 12 shown)

MARK	COL	TYPE	SVC LOAD	REQ FOOTING
F-A1	A1	Corner	84 kN	0.62 m ² 3.3' × 3.3'
F-A2	A2	Edge	150 kN	1.1 m ² 3.6' × 3.6'
F-A3	A3	Edge	150 kN	1.1 m ² 3.6' × 3.6'
F-A4	A4	Edge	150 kN	1.1 m ² 3.6' × 3.6'
F-A5	A5	Corner	84 kN	0.62 m ² 3.3' × 3.3'
F-B1	B1	Edge	150 kN	1.1 m ² 3.6' × 3.6'
F-B2	B2	Interior	261 kN	1.91 m ² 4.6' × 4.6'
F-B3	B3	Interior	261 kN	1.91 m ² 4.6' × 4.6'
F-B4	B4	Interior	261 kN	1.91 m ² 4.6' × 4.6'
F-B5	B5	Edge	150 kN	1.1 m ² 3.6' × 3.6'
F-C1	C1	Edge	150 kN	1.1 m ² 3.6' × 3.6'
F-C2	C2	Interior	261 kN	1.91 m ² 4.6' × 4.6'

NBC 2016 Cl. 8.4.4 • IS 1905:1987 • IS 4326:1993

Wall Hierarchy *& Thickness*

01 • EXTERIOR WALL 9" (230 mm) Load-bearing perimeter CODE BASIS - NBC 2016 Cl. 8.4.4 – masonry minimum 230 mm for exterior walls - IS 1905:1987 – Code of Practice for Structural Use of Unreinforced Masonry - IS 4326:1993 – Earthquake Resistant Design and Construction USE CASES - Carries live + dead loads from roof and upper floors - Wind load resistance + seismic boundary - Thermal envelope and weatherproofing	02 • INTERIOR PARTITION 4½" (115 mm) Non-load-bearing partition CODE BASIS - NBC 2016 Cl. 8.4.5 – interior partitions - IS 1905:1987 – partition wall design USE CASES - Room-to-room separation - Acoustic damping - Plumbing chase routing	03 • WET WALL 6" (150 mm) Wet-area cavity wall CODE BASIS - NBC 2016 Pt 9 – Plumbing Services - IS 1742:1983 – Building Drainage USE CASES - Toilet and kitchen pipe runs - Waterproof membrane substrate - Tile-receiving substrate (CPVC + bonded plaster)
---	---	---

SPECIFICATION SUMMARY

EXTERIOR	INTERIOR	WET-AREA	MORTAR
9" / 230 mm	4½" / 115 mm	6" / 150 mm	1:6 cement-sand

Group A - Residential - NBC 2016 Pt 4 - Compliant

Fire Safety Compliance

100%
COMPLIANCE

01 - Staircase Width Verification

STAIRCASE	WIDTH	REQUIRED	STATUS	LOCATION
U-TURN STAIRS	8.89'	4'	PASS	(0, 42)

02 - Travel Distance Check (max 75')

ROOM	DISTANCE	MAX ALLOWED	STATUS
KITCHEN STORE	49'	75'	OK
WASHING AREA	43'	75'	OK
KITCHEN	46'	75'	OK

74'	4	11	2
MAX TRAVEL	EXTINGUISHERS	DETECTORS	EMERGENCY LIGHTS

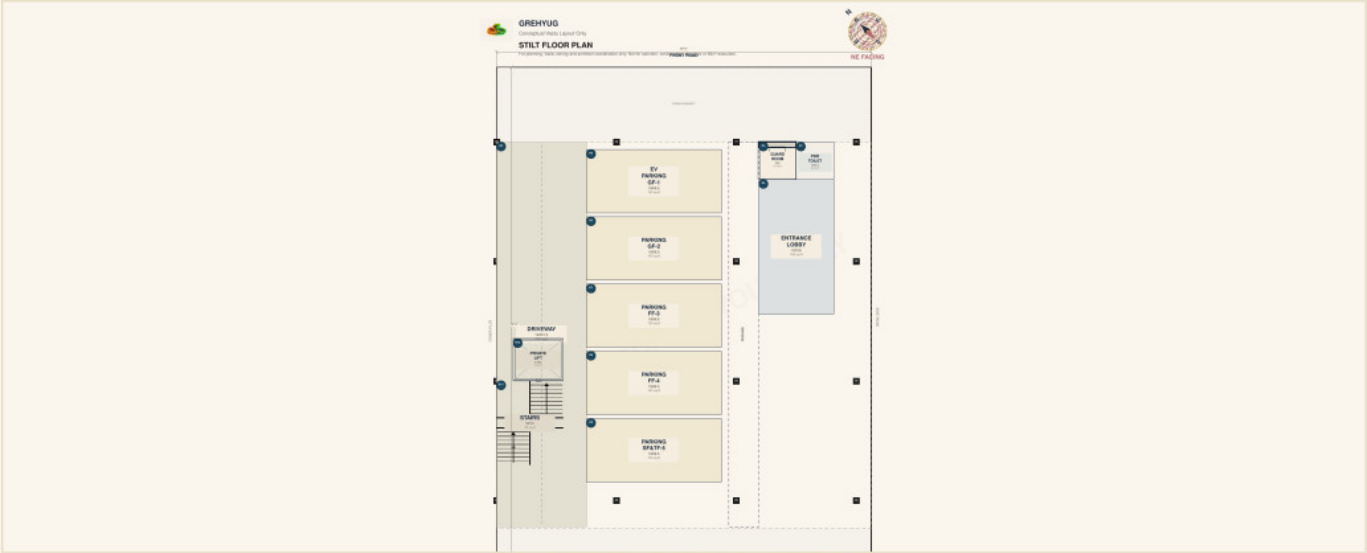
03 - Fire Extinguisher Placement

TYPE	LOCATION	QTY
ABC 2kg Dry Powder	Near KITCHEN	1
ABC 4kg Dry Powder	Staircase landing	1
ABC 4kg Dry Powder	Entry/Foyer area	1
CO2 4.5kg	Stilt parking area	1

NBC 2016 / Local DCR • 3 ECS required • 5 provided

Parking *Layout*

5/3
ECS SURPLUS



ECS COMPLIANCE

COMPLIANT

5/3

Surplus of 2 ECS — flexibility for visitors / EVs.

01 • Driveway Verification

DW	WIDTH	REQUIRED TYPE	STATUS
DW-1	12'	min 12' <i>One-way</i>	COMPLIANT

02 • Parking Bays

BAY	SIZE	TYPE	STATUS
EV PARKING GF-1	18' × 8.5'	<i>Open</i>	FAIL
PARKING GF-2	18' × 8.5'	<i>Open</i>	FAIL
PARKING FF-3	18' × 8.5'	<i>Open</i>	FAIL
PARKING FF-4	18' × 8.5'	<i>Open</i>	FAIL
PARKING SF&TF-5	18' × 8.5'	<i>Open</i>	FAIL

03

Budget & Sustainability

Indicative construction cost, phase-wise cash flow, sewage treatment, rainwater harvesting and the IGBC Green Homes scorecard.

IN THIS PART

31	.....	<i>Construction Estimate</i>
32	.....	<i>Solar Potential</i>
33	.....	<i>Sewage Treatment</i>
34	.....	<i>Rainwater Harvesting</i>
35	.....	<i>IGBC Scorecard</i>
36	.....	<i>Daylight Analysis</i>

Construction *Estimate*

GRAND TOTAL

₹131.9L

₹5,102 / sq ft built-up • ₹5,098 / sq ft carpet

BUILT-UP

2,585 sq ft

FLOORS

Stilt + 1 floor

QUALITY

Standard

01 • Component Breakdown

COMPONENT	RATE	AREA	AMOUNT
Civil / Grey Structure	₹1600/sf	2585	₹41.36L
Finishing	₹900/sf	2587	₹23.28L
MEP — Plumbing · Electrical · Fire	₹300/sf	2585	₹7.75L
External Works	₹180/sf	2585	₹4.65L
Common / Landscape	₹200/sf	388	₹0.78L
Stilt Parking	₹960/sf	2585	₹24.82L
SUBTOTAL			₹102.6L
+ Contingency			₹5.1L
+ Architect Fee			₹3.6L
+ Approvals			₹2.1L
+ GST			₹18.5L

02 • Phase Timeline

Phase 1				
Foundation & Stilt		15%	₹19.8L	0-3 mo
Phase 2				
Superstructure		25%	₹33.0L	3-8 mo
Phase 3				
MEP Rough-in		12%	₹15.8L	6-10 mo
Phase 4				
Finishing		30%	₹39.6L	8-14 mo
Phase 5				
Interior & Furnishing		12%	₹15.8L	12-16 mo
Phase 6				
External & Handover		6%	₹7.9L	14-18 mo

OPTIONAL • INTERIOR FIT-OUT • SEPARATE SCOPE

modular kitchen, wardrobes, false ceilings, lighting fixtures, TV/crockery units, loose furniture & décor (separate design scope, not part of base build)

₹44.0L

₹1400-2000/sf • not in the total above

5.94 kWp • 11 panels • 1 floor

Solar *Rooftop*

5.94kWp

540W Mono PERC (7.2' × 3.6')

01 • Roof Area Analysis

Gross Roof Area	3,450 sq ft
Buildable Roof	2,585 sq ft
DEDUCTIONS	
• Stairhead Room	80 sq ft
• Water Tank Platform	40 sq ft
• Shaft / Duct Openings	13 sq ft
• Lift Machine Room	48 sq ft
• Parapet Shadow Zone	203 sq ft
• Maintenance Walkway	574 sq ft
Total Deductions	958 sq ft
Usable Roof • for solar panels	1,627 sq ft

02 • Panel & Generation

Panel Specification	540W Mono PERC (7.2' × 3.6')
Panel Count	11 panels
Capacity	5.94 kWp
Generation Zone • Delhi, UP, Punjab, Haryana, Karnataka, TN, AP	MEDIUM
Annual Generation	8,316 units
Monthly Generation	693 units

03 • Financial Analysis

PARAMETER	VALUE	DETAILS
Installation Cost (before subsidy)	₹3.0L	—
Central Govt Subsidy	₹78K	PM Surya Ghar Muft Bijli Yojana
Net Investment	₹2.3L	after subsidy
Annual Electricity Savings	₹71K	@ ₹8.5/unit
Monthly Savings	₹6K	average
Return on Investment	3.2 years	simple payback
System Life	25 years	with 80% efficiency at yr 25
Lifetime Savings (est.)	₹17.7L	over 25 years

₹3.0L

₹78K

₹2.3L

₹17.7L

Septic Tank + Soak Pit • 0.9 KLD • 5 persons

Sewage Treatment *Plant*

01 • Sewage Generation

Dwelling Units	1
Total Residents	5
Per-Capita Sewage	120 LPD
Daily Sewage	0.6 KLD
Design Capacity • 1.5× peak	0.9 KLD

02 • Recommended STP

Technology	Septic Tank + Soak Pit
Suitable For	<10 KLD (individual homes)
Efficiency	60
Basic treatment — for small plots without municipal sewer	

03 • CPCB Discharge Standards (2017)

PARAMETER	LIMIT	DESCRIPTION
BOD	≤ 10 mg/L	Biochemical Oxygen Demand
COD	≤ 50 mg/L	Chemical Oxygen Demand
TSS	≤ 20 mg/L	Total Suspended Solids
pH	6.5 – 9.0	Neutral range
Coliform	≤ 1000 MPN/100mL	Faecal coliform

Stilt + 1 floor • Default (Indian avg) • 900 mm/yr

Rainwater *Harvesting*

241.6_{KL/yr}

98% SELF-SUFFICIENT

01 • Catchment Area

Roof Catchment • 240 sqm	2,585 sf
Paved Area	865 sf
Effective Catchment • after runoff coeff	268 sqm

02 • Annual Harvest

Annual Harvest • 241.6 KL	2,41,570 L
Demand Coverage • 5 residents	98%
Annual Consumption	2,46,375 L

03 • Storage

Sump Capacity	40,000 L
Sump Dimensions	17' × 17' × 5'
Recharge Well	3' dia × 15' deep

04 • Cost & Payback

Total Investment	₹2,38,680
Payback (Tanker)	6.6 yrs
Payback (Municipal)	19.8 yrs

05 • Component Schedule

S.NO	COMPONENT	SPECIFICATION	QTY	COST
01	PVC Downpipes	4" dia PVC	6	—
02	First Flush Diverter	Auto-flush first 2mm rain	6	—
03	Filter Chamber	Pebble-Sand-Charcoal — 3'×3'×3'	1	—
04	Collection Sump	17'×17'×5' RCC (40000L)	1	—
05	Recharge Well	3' dia × 15' deep	1	—
06	PVC Pipe Network	4" dia underground	139	—
07	Submersible Pump	0.5 HP (sump to OHT)	1	—
08	Water Level Indicator	Float type for sump	1	—

Platinum • 78/90 (87%) • IGBC Green Homes v3.0 (indicative)

Green Building *Platinum*

78/90
PLATINUM

01 • Sustainable Site Design — 14/14 points

CREDIT	POINTS	EARNED	STATUS
Soil erosion control during construction	2	2	Achieved
Rainwater management on site	3	3	Achieved
Reduced heat island effect (light-colored terrace)	2	2	Achieved
Landscape with native species (setback area)	2	2	Achieved
Basic amenities within 500m	3	3	Achieved
Topsoil preservation during construction	2	2	Achieved

02 • Water Efficiency — 18/18 points

CREDIT	POINTS	EARNED	STATUS
Rainwater harvesting system	4	4	Achieved
Water-efficient fixtures (dual flush, aerators)	3	3	Achieved
Treated water reuse for flushing	3	3	Achieved
Treated water reuse for landscaping	3	3	Achieved
Water metering per floor	2	2	Achieved
Drip irrigation for landscape (60% water saving)	3	3	Achieved

03 • OTHER CATEGORIES (SUMMARY)		
ENERGY & ATMOSPHERE	BUILDING MATERIALS & RESOURCES	INDOOR ENVIRONMENTAL QUALITY
21/24 pts	11/15 pts	7/12 pts

04 • Sustainable Features Installed

SOLAR	5.94 kWp installed	RWH	241.6 KL/year harvest
STP	Septic Tank + Soak Pit — 0.9 KLD	VENTILATION	Needs improvement
DAYLIGHT	Needs improvement	EV	1 EV charging point(s) — AC Type-2, 7.2kW
VASTU	77% Vastu compliance		

Adequate — Some Rooms Need Attention • AVG 42/100 • 8
BRIGHT / 12 DARK

Natural Light *Analysis*

42/100

ADEQUATE — SOME ROOMS NEED ATTENTION
DAYLIGHT

01 • Room-by-Room Sunlight Analysis

S.NO	ROOM	SCORE	GRADE	HRS/DAY	BEST DIR	WINDOWS	RECOMMENDATION
01	TOILET	5/100	Dark	0h	—	0	—
02	DRESSING	5/100	Dark	0h	—	0	—
03	LIVING/ DINING	5/100	Dark	0h	—	0	—
04	family_lounge	5/100	Dark	0h	—	0	—
05	DRAWING ROOM	5/100	Dark	0h	—	0	—
06	family_lounge	5/100	Dark	0h	—	0	—
07	PUJA GHAR	5/100	Dark	0h	—	0	—
08	LANDING (FOYER)	5/100	Dark	0h	—	0	—
09	WARDROBE	5/100	Dark	0h	—	0	—
10	WASHING AREA	13/100	Dark	0.6h	N	1	Add window on N wall for better natural light
11	MASTER TOILET	15/100	Dark	0.6h	N	1	Add window on N wall for better natural light
12	MASTER BEDROOM	26/100	Poor	1.2h	N	1	Add window on N wall for better natural light
13	STORE	45/100	Adequate	2.1h	E	1	Increase window size to at least 3' for adequate light
14	WARDROBE	88/100	Excellent	3.5h	E	1	—
15	U-TURN STAIRS	88/100	Excellent	3.5h	W	1	West/SW windows receive intense afternoon heat — use sun shading or smaller windows
16	KITCHEN	89/100	Excellent	4.2h	E	1	—
17	BEDROOM 2	89/100	Excellent	4.2h	E	1	—
18	BEDROOM 3	89/100	Excellent	4.2h	W	1	West/SW windows receive intense afternoon heat — use sun shading or smaller windows

OVERALL 82/100 • GRADE GOOD • TIER COMFORTABLE

Design Quality *Audit*

82/100

10-AXIS SCORE

01 • 10-Axis Professional Audit

AXIS	WT.	SCORE	BAR	NOTE
Room Proportions	× 15	9/10		—
Layout Balance	× 15	10/10		—
Zoning Depth	× 10	10/10		—
Kitchen-Dining Link	× 5	9/10		—
Light & Ventilation	× 10	8/10		—
Entry Position	× 5	8/10		—
Brahmasthan Clear	× 10	9/10		—
Vastu Compliance	× 15	9/10		—
Structural Sense	× 10	9/10		—
Service Cores	× 5	9/10		—

SCORE GUIDE

8-10 Excellent 6-7 Good 4-5 Moderate 0-3 Needs Work

Thank *you.*

This concept book was prepared by Grehyug AI for planning and Vastu coordination. The drawings, scores and estimates carried within are intended to support — not replace — licensed architectural, structural, MEP and bylaw review.

NOT FOR

- Sanction or approval submission
- Construction or execution
- Final structural or MEP design
- Tendering or quantity surveying

REFERENCES

- NBC 2016 · Parts 4, 6, 9
- IS 456 · IS 875 · IS 1742 · IS 4648
- Delhi MPD 2021 · UBBL 2016
- IGBC Green Homes v3.0

NEXT

- Architect onboarding
- Soil test & survey
- Statutory drawings
- Structural sign-off