



SIMBAL STUDIOS

BUILT WORKS
2021-PRESENT



SIMRAT MEHTA

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EDUCATION

MASTERS OF ARCHITECTURE, THE UNIVERSITY OF MELBOURNE

2022 - ONGOING

BACHELOR OF ENVIRONMENTS, THE UNIVERSITY OF MELBOURNE

2016 - 2018

SOFTWARES

REVIT

VRAY

MICROSOFT SUITE

RHINO 3D

AUTOCAD

ENSCAPE RENDERER

SKETCH UP

KEY SHOT RENDERER

ADOBE

REFERENCES *(On request)*

Ellen Terrill, Architect, John Wardle Architects

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Blair Gardiner, Senior Lecturer in Construction Technology,

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WORK EXPERIENCE

CO FOUNDER @ SIMBAL STUDIOS

APRIL 2020 - PRESENT

STUDENT OF ARCHITECTURE @ KOSLOFF ARCHITECTURE

JANUARY 2020 - PRESENT

STUDENT OF ARCHITECTURE @ JOHN WARDLE ARCHITECTS

MARCH 2019 - JANUARY 2020

STUDENT @ WOODS BAGOT

FEBRUARY 2019 - MARCH 2019

CO-FOUNDER@BIRYANI SINGH STARTUP

DECEMBER 2017 -PRESENT

GRAPHIC DESIGN INTERN @ THE UNIVERSITY OF MELBOURNE

MAY 2017 - DECEMBER 2018

INTERNSHIP @ ATELIER ARCHITECTS, INDIA

NOVEMBER 2016 - FEBRUARY 2017

PUBLICATION

GLOBAL ARCHITECTURAL PROFILING 2018 CATALOGUE

ACHIEVEMENTS/ COMPETITIONS

ADVANCED ARCHITECTURE TECHNOLOGY, MSDX EXHIBITION 2020

PARTICIPATION, SUPER STUDIO 2018 SONA

FINALIST, STUDENT ENTERPRISE PROGRAM, THE UNIVERSITY OF MELBOURNE

TOP 10% OF SUBJECT, DIGITAL DESIGN AND FABRICATION

CO FOUNDER OF ARCHICLE STUDENT CLUB, UNIVERSITY OF MELBOURNE

WORKSHOPS

AAVS SUMMER STUDIO MELBOURNE, 2018



DIGITAL DESIGN AND FABRICATION PROTOTYPE



RESIDENTIAL - RENOVATION

BAHL HOUSE

GURGAON, INDIA

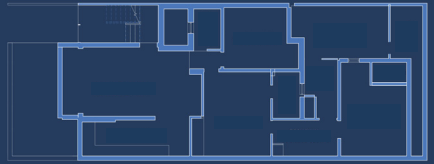
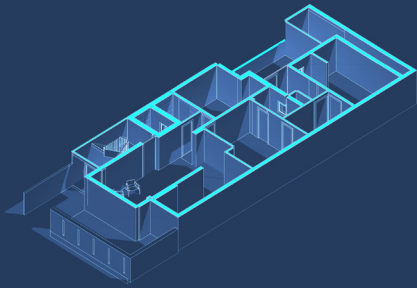
Project Period: June - January

Construction period: September - December

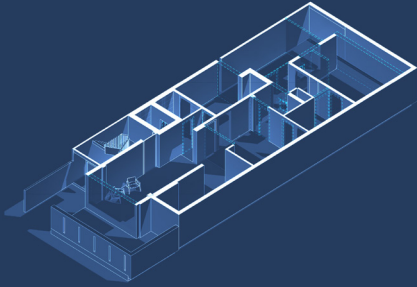




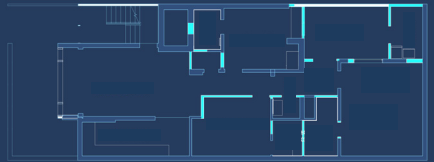
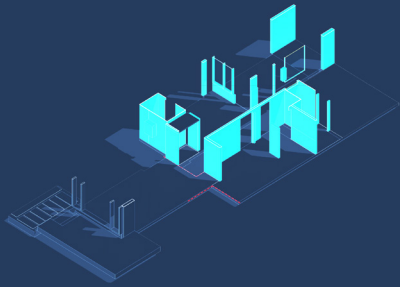




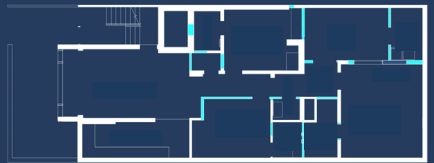
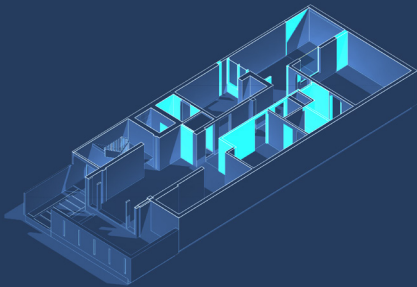
EXISTING



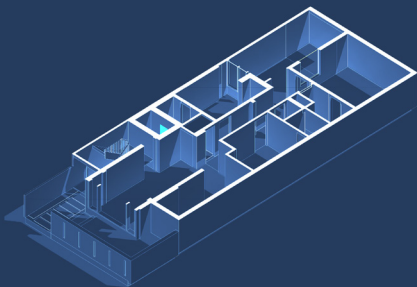
DEMOLISHED



NEW ADDITIONS



NEW ADDITIONS



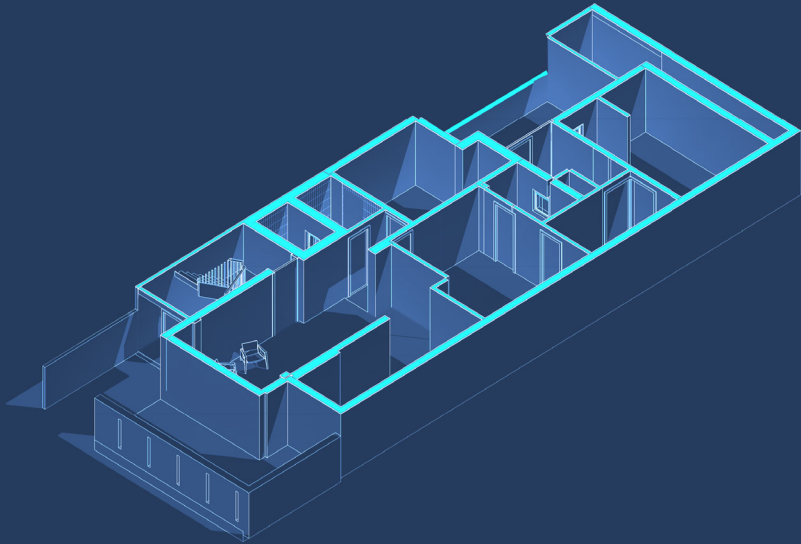
PROPOSED GROUND FLOOR PLAN



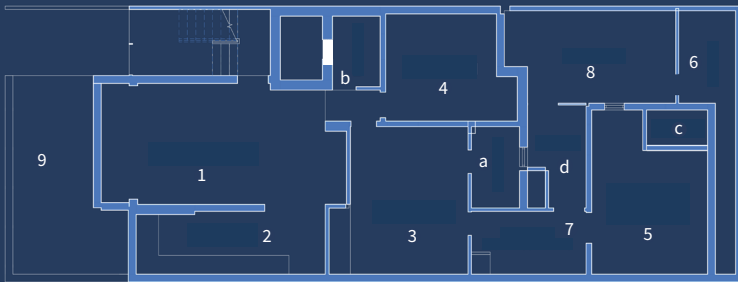
PROPOSED GROUND FLOOR PLAN

LEGEND

- 1 Living room
- 2 Kitchen
- 3 Bedroom 1
- 4 Bedroom 2
- 5 Master Bedroom
- 6 Store / Laundry
- 7 Corridor
- 8 Backyard
- 9 Frontyard
- 10 Pooja Room
- a Bathroom 1
- b Bathroom 2
- c Master Bathroom



EXISTING GROUND FLOOR AXO



EXISTING GROUND FLOOR PLAN

LEGEND

- | | |
|--------------------|-------------------|
| 1 Living room | a Bathroom 1 |
| 2 Kitchen | b Bathroom 2 |
| 3 Bedroom 1 | c Master Bathroom |
| 4 Bedroom 2 | d Laundry |
| 5 Master Bedroom | |
| 6 Store | |
| 7 Pathway/wardrobe | |
| 8 Backyard | |
| 9 Frontyard | |



CONCEPT DESIGN

BRIEF

Nestled in the quite lanes of the bustling city of Gurgaon, this family home of four was unable to fulfill the needs of a growing family. Originally built by Ansal Builders 20 years ago, the house is a masonry construction with 3 floors in total. The original construction was poor and was affecting the wellbeing and health of the occupants. With dampness in the walls, lack of natural light and access to privacy to each occupant, the existing space was no longer livable.

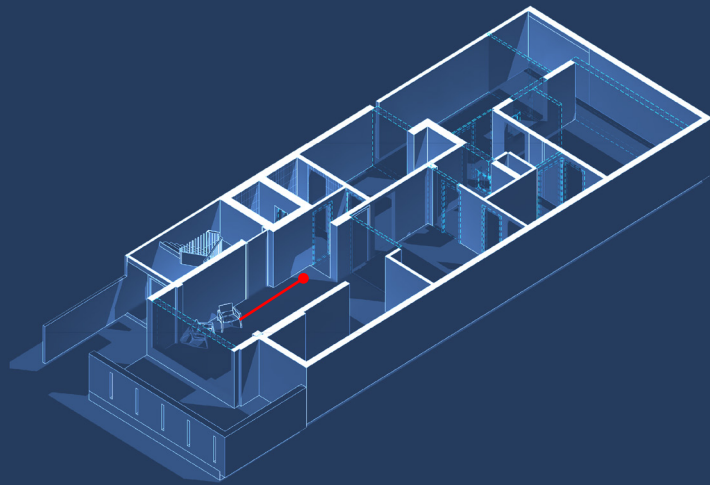
The existing plan of the house is a collage of additions through the years to fulfill growing requirements of the occupants. This irregular growth led to the space feeling small and unorganized.

The access to the master bedroom (5) and the backyard (8) was through the children's bedroom (3) and wardrobe corridor (7). The back of the house which was a mix of utility and resting quarters was through the private spaces of other occupants.

Due to the structural arrangement of the house, some of the internal walls were load bearing passing down the load from the deep concrete beams. This is a key element that was considered during the initial possibilities of arrangements without minimal disruption to the structure.

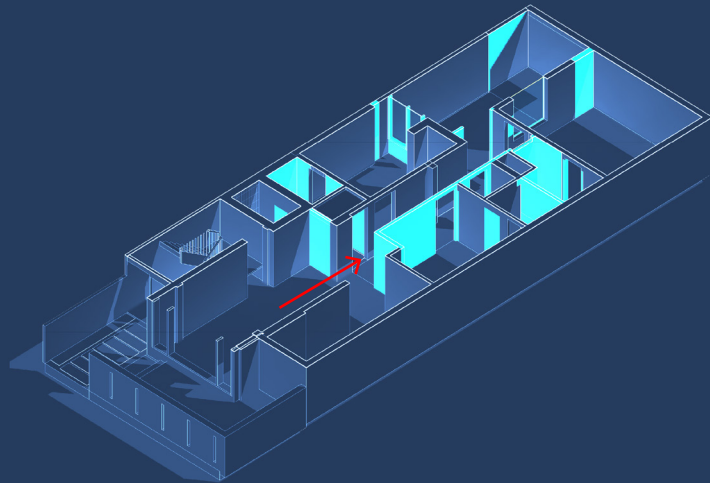


Demolishing - Construction Waste



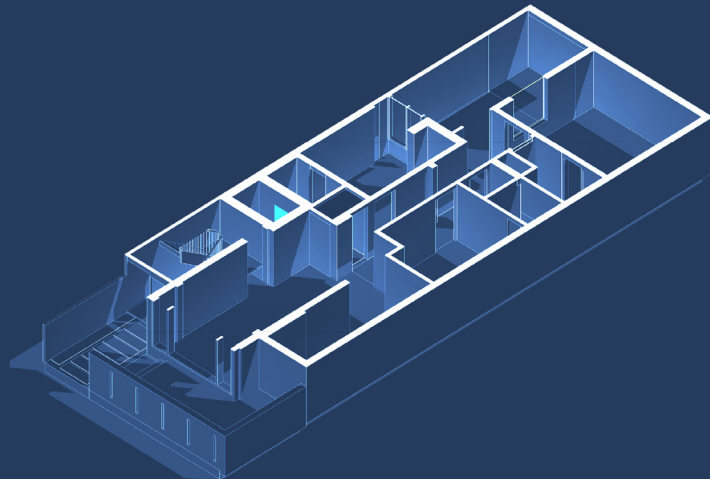
Non load-bearing walls are demolished to open up the interior space to light and natural air. The demolition also provides way to private access to each room.

- - - DEMOLISH
→ OBSTRUCTED PATH



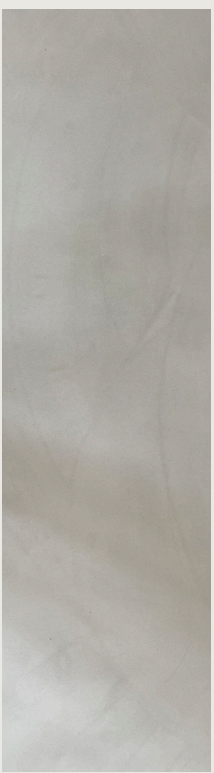
New walls were added in the void that was punched through the existing wall to make way for the corridor. New walls were added in bedroom 2, 3 and master bathroom to make private bathrooms. 6ft window void was added in master bedroom to let natural light in.

█ NEW ADDITIONS
→ UNOBSTRUCTED PATH

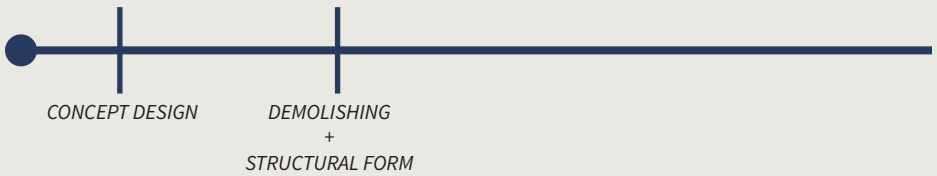


NEW ADDITIONS

- Master Bathroom
- Guest Toilet
- 2 new attached bathrooms
- New utility room
- 1 Pooja room







DESIGN CONCEPT

Bahl House represented a rare opportunity to capture the timelessness of Indian heritage and pair it with the needs of the modern living. The design process was driven by the need to create a space that calmed the sensory elements of the users, stepping into their quiet sanctuary and closing the door to the noise of the outside world.

Spatial journey through the house is guided by the colour blue - an ode to the old house, and heightened by the tactility of the materials as one passes through.

The space encourages one to engage, connect and move through the house, it makes you question each material used in its original form.

Each material used through the house respects the nature of the material and morphs it according to the space.

As you step in on the soft and massy micro concrete flooring, you are greeted by the elongated corridor that heightens the curiosity of 'what's back there'.

The muted, soft furnishings help not only as an auditory buffer but also help disperse the natural sunlight that penetrates in the day.



WINDOW VOID - LIVING ROOM

The existing window frame was removed as it was acoustically, thermally poor with a single glazed system. This was replaced with a double insulated, thermally broken UPVC frame.



INCREASE DOOR FRAME

The existing door frame was removed and replaced with a bigger 8ftx 3ft termite and weatherproofed frame.



EXTENDING MASTER BEDROOM INTO EXISTING STORE

The existing master bedroom was the smallest in the house without any access to sunlight or storage. This was resolved by extending the master bedroom in to the store room by demolishing the shared wall and supporting the slab above with a Steel U-Beam that helped distribute the load to the structural walls it was sitting on.



FALSE CEILING

Through out the house, there were differences in ceiling heights, to counter this, false suspended ceiling was built to create an even ceiling height.

BEFORE



CORRIDOR VOID PUNCHED INTO THE EXISTING WALL

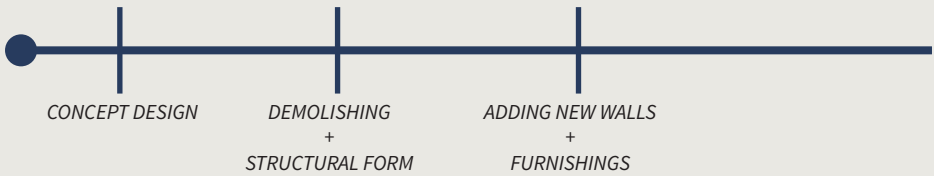
STEP 1





CORRIDOR PROVIDING PRIVATE ACCESS TO EACH ROOM





MATERIALITY + FURNISHINGS

Bahl family provided the opportunity to test out material options that were suited to the local climate, sustainable and unconventional. For the floors, micro concrete was used as a flooring material as it was applicable on existing floors which not only cut down construction waste and time but also due to its thermal properties would help save power bills and energy loss. For the bedrooms, low impact sustainable wood vinyl panels were used to add warmth and softness to the resting quarters. Each room has its own personality and colour and is unique to its occupants.

Most of the furniture was reused and up-cycled by simply re-upholstering some of the pieces or repainting them.

We were also able to display some traditional and heirloom paintings by providing a dedicated space for displaying art and highlighting them with focus lights.

White walls and doors heighten the accents of colour splattered across the house and help disperse the warm light, making it an atmospheric space.

Bedroom 2- Highlight wall



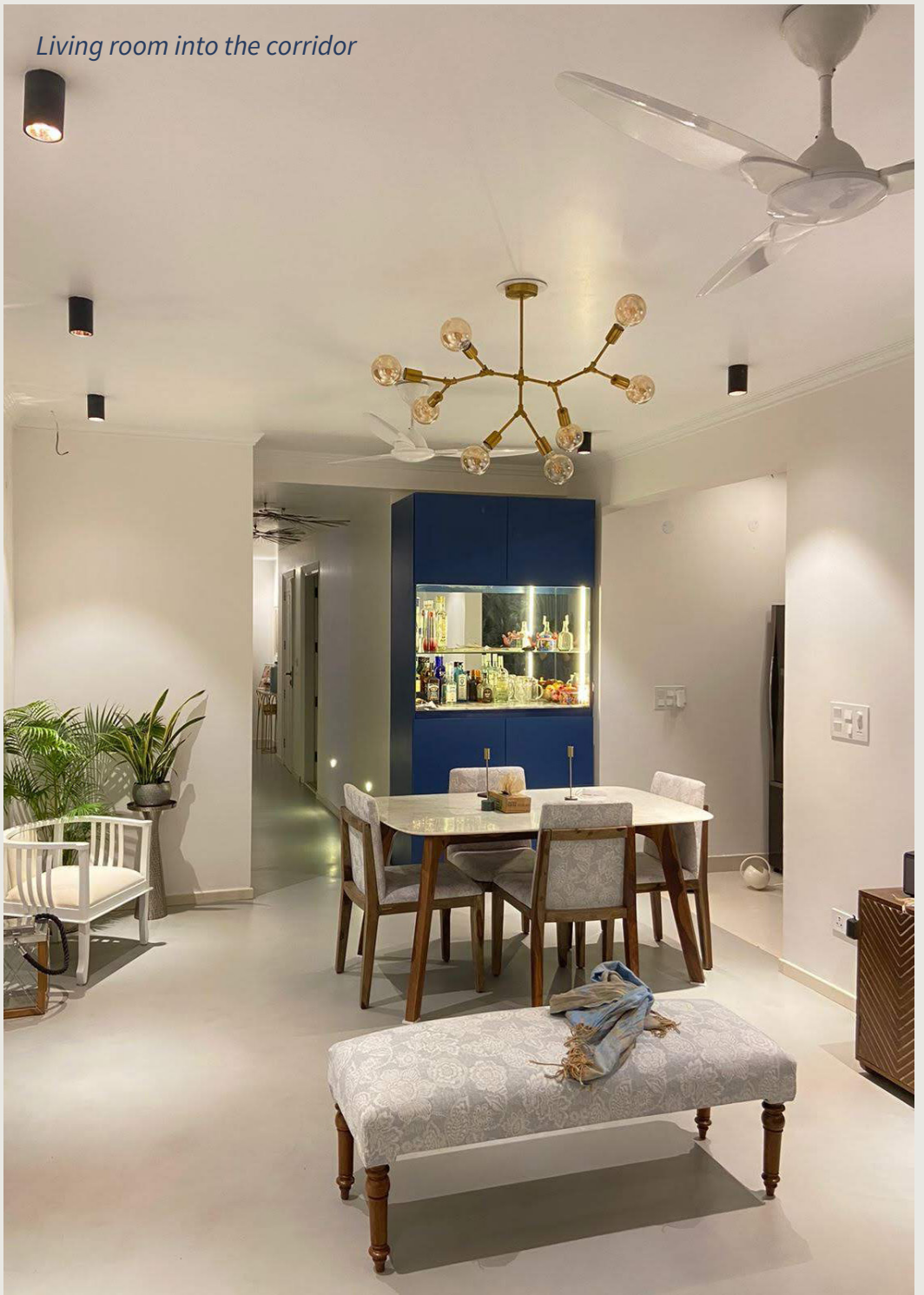
Highlight Wall with focus lights on the heirloom piece



Seating corner in the living room



Living room into the corridor



Existing Wall peices attached to the corridor ceiling



Corridor View





Existing sofa reupholstered with new custom made cushions





Master Bedroom



Terracotta blocks creating private open space

Front entrance





Feature light in Bedroom 2





New Addition - Guest Toilet



Bathroom 2

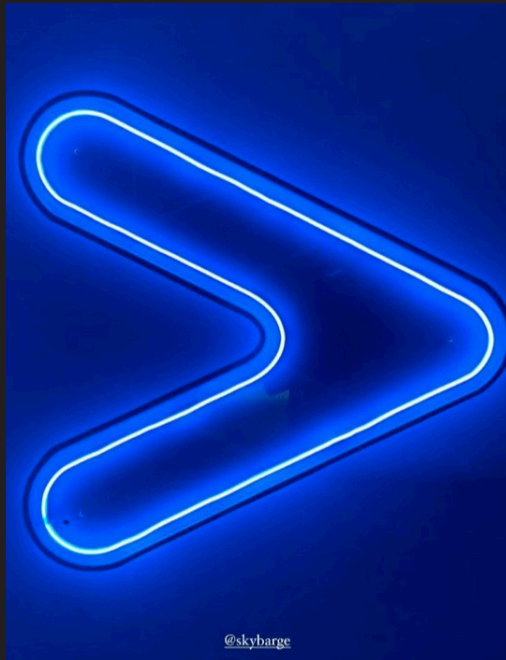
Natural morning light in the living room

WORKPLACE - RENOVATION

SKYBARGE OFFICE

DELHI, INDIA

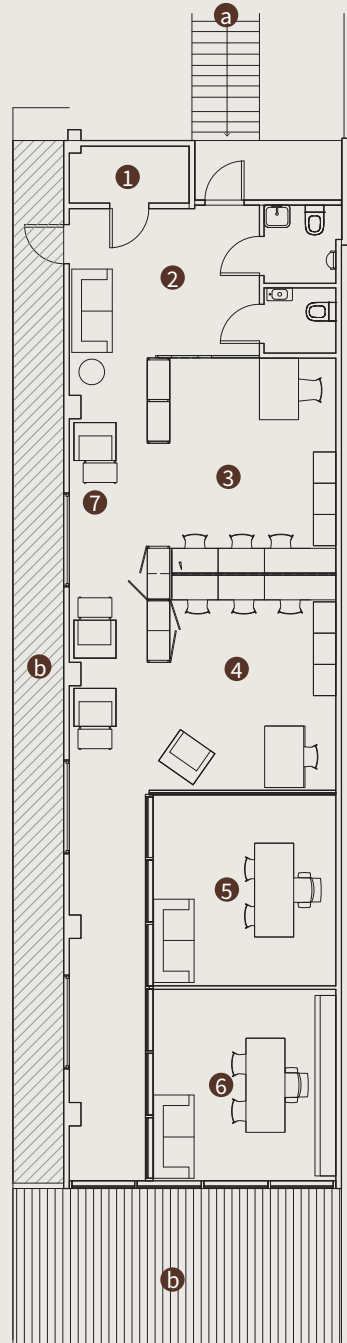
Project Period: FEBRUARY - JUNE

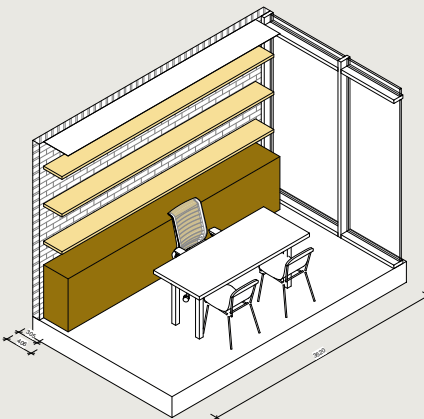
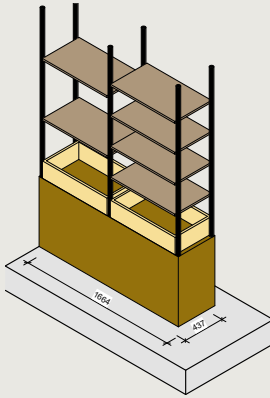
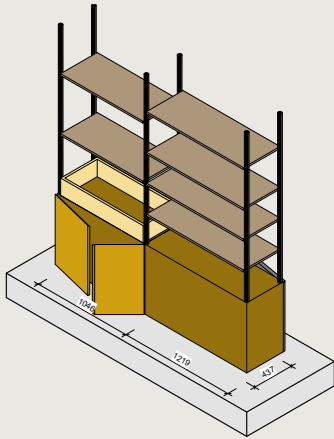


We spend 8 hours or more at times of our day at the office, working, socializing and learning. Therefore workplace needs to have an atmosphere which focuses on employee wellbeing and efficiency and puts the occupants as the priority.

Skybargo Executive office is a new office project based in Delhi for a dynamic freights shipping logistic company with clients all over the world. This new office arose from the need to create a space that would cater clients and provide a private space for executive decisions and meetings. Therefore this new office was created as an arm to the now “administration office” separated by one flight of stairs. The main problems to tackle were access to natural light, reverberation in the office and mainly cooling and heating.

- ① Waiting Area
- ② Admin Office
- ③ Izel Infrastructure Cabin
- ④ Izel Homes Cabin
- ⑤ New workshop





The clients wanted to create an open and connected space between the two floors and, simultaneously, make the most of the natural light from fenestrations. To create this, two sides of the space were left with large spanning windows and access to a balcony which enveloped it on two sides. The two executive offices separated by thick glass, oriented to the west were naturally lit through out the day and enabled the light to penetrate to the rest of the floor plate. The clear and transparent enclosures linked the view of the employees working in an open plan set up allowing for connectivity and transparency.

To make sure privacy within open plan office layout, bookshelves and ladder shelves were added which worked both as storage and as visual distinctions of functions.



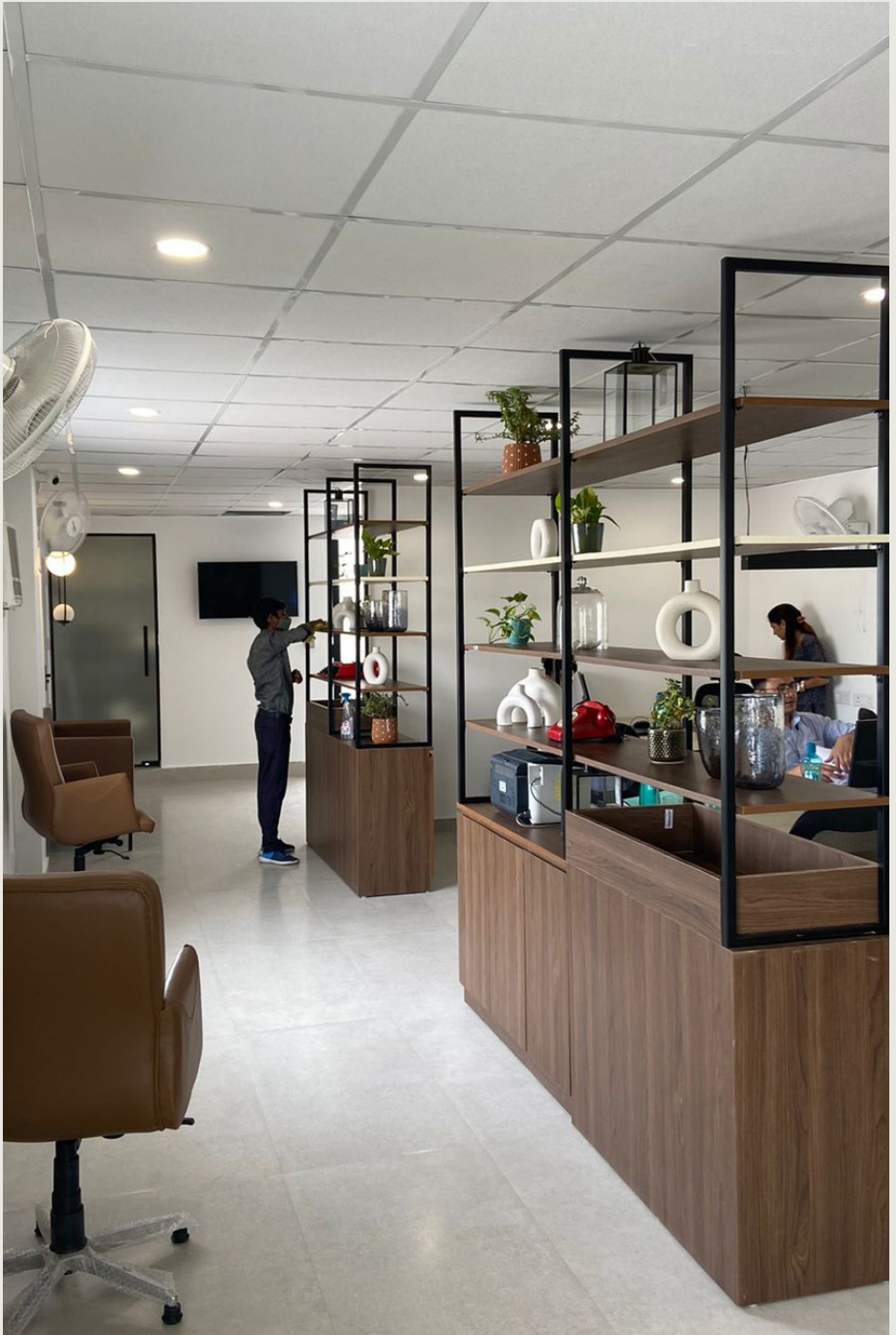
ENTRANCE FROM THE ADMIN OFFICE - BEFORE



ENTRANCE FROM THE ADMIN OFFICE - AFTER



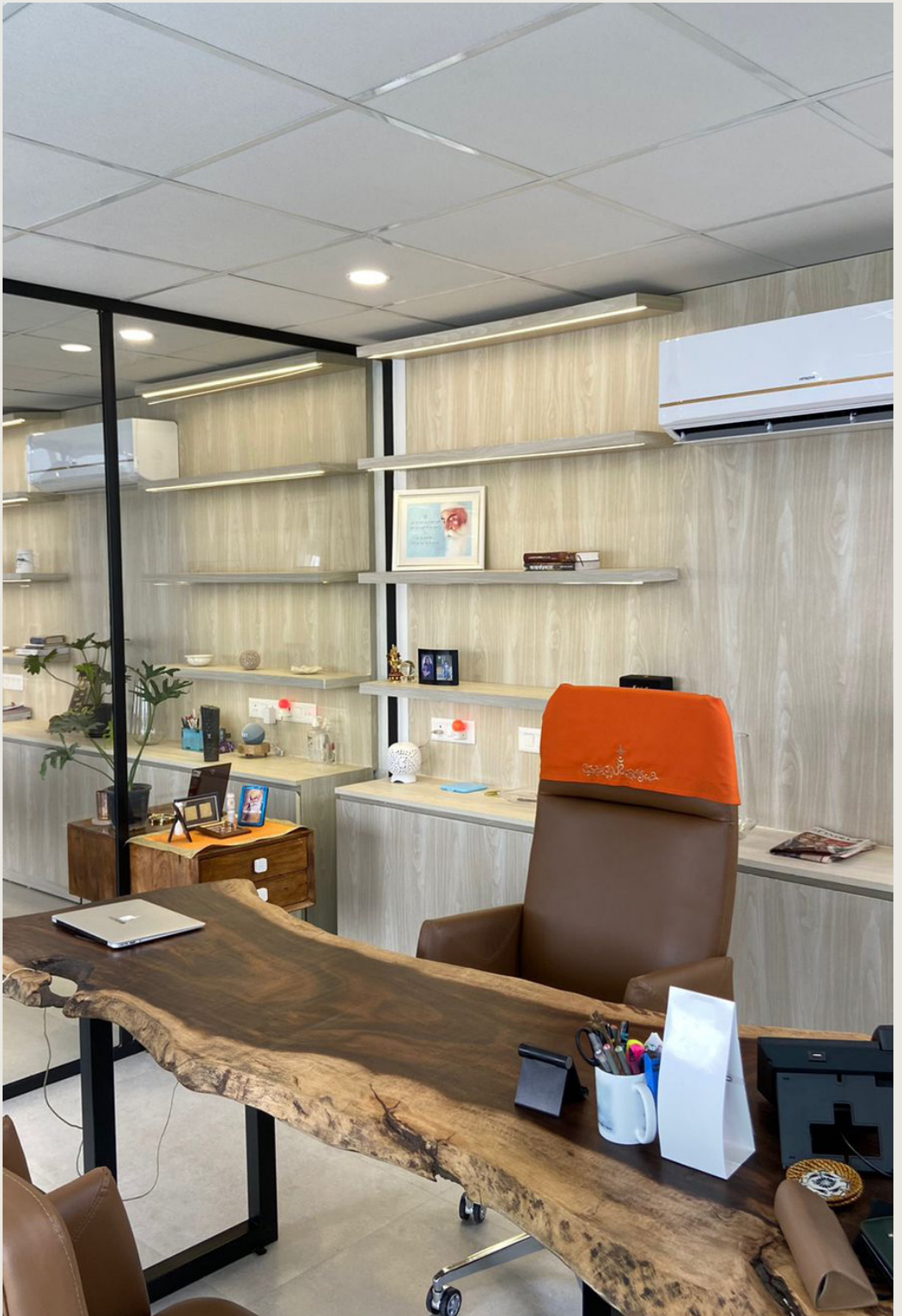
VIEW FROM THE NEW OFFICE - BEFORE



VIEW FROM THE NEW OFFICE - AFTER









WORKPLACE - RENOVATION

IZEL STUDIO

DELHI, INDIA

Project Period: FEBUARY - JUNE

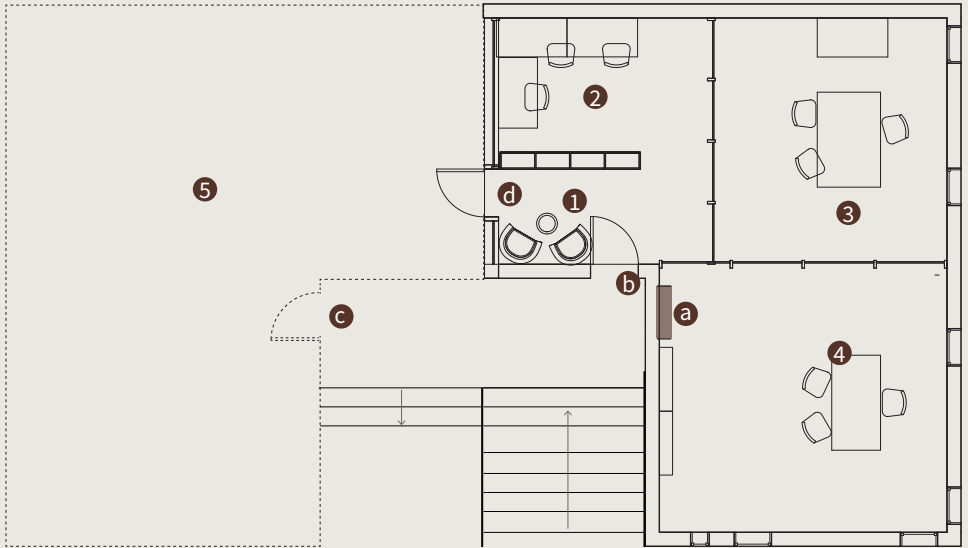








VINTAGE HERITAGE INDIAN FURNITURE REPURPOSED



PROPOSED FLOOR

- ① Waiting Area
- ② Admin Office
- ③ Izel Infrastructure Cabin
- ④ Izel Homes Cabin
- ⑤ New workshop
- Ⓐ Closed Existing Entry to the office
- Ⓑ New Entry to the office
- Ⓒ Existing Entry to workshop
- Ⓓ New Entry to workshop

The project is based in the textile industrial hub of Delhi, Okhla. Izel studio is a practice run by a couple each heading two unique departments - Infrastructure and Textile design. With growing requirements of each office, the existing space which contained a garment workshop/storage and two offices for the executives, was exhausted in its uses. In addition to that, the existing space also lacked natural ventilation and light, lack of storage spaces, no auditory distinction of spaces and more importantly a place for clients meetings.

As a solution, the office on the same floor was leased and zoned to be a front office space for executives and admin staff with the existing office turning into a garment workshop that is connected and separated by a wall that is demolished to form a glass wall.



STRIPPED FLOOR SHOWING
LAYERS OF HISTORY

*UNEVEN CEILING WITH HOOKS
THAT HELD TIMBER BATTENS AND
GLASSWOOL INSULATION*





UNEXPECTED TREASURE OF HISTORY

In its existing state, the office space had a degrading wood vinyl which upon discussing with the client, we decided to remove it and expose the layer underneath it. However when the process of peeling began, a stripped sticky folder appeared which was damaged as well. Once we tried to peel that off, a beautiful layer of kota stone appeared, tonally different in some places but it was beautiful. The material was honored in its original state by retaining this as the flooring option





NATURAL LIGHT AND ARTIFICIAL LIGHT

The existing space had equidistant windows spread across the two sides of the space allowing light and natural air through them, however to amplify the natural light coming in, the walls and ceilings were painted white to allow the reflection of light. The exposed black surface cylinder lights accentuates the industrial heritage of the location and space of the studio.



EXISTING TIMBER BATTENS REMOVED FROM THE CEILING







NEW ENTRANCE TO THE NEW STUDIO ARM

The new office had an existing entry that was closed off to allow for a more flexible office floor plan. A new entrance was created facing the staircase, marking a clear main entry point to the office. The main door reflected the industrial character and the 60s of India through the choice of material used - powder coated MS and fluted glass.



HOSPITALITY - RENOVATION

BIRYANI SINGH

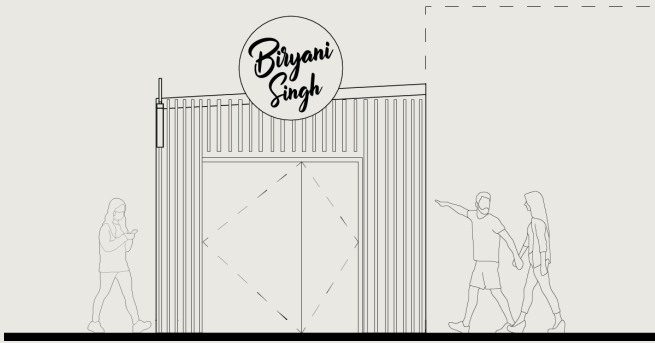
DELHI, INDIA

Project Period: FEBUARY - JUNE

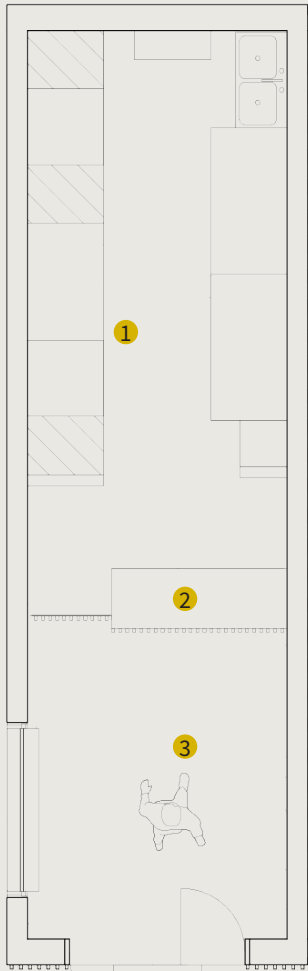








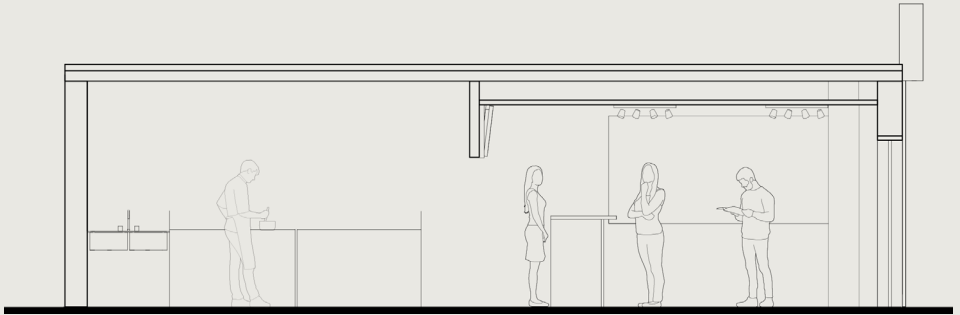
FRONT ELEVATION



- ① Kitchen
- ② Billing Counter
- ③ Wating area



PLAN



SECTION

On the busy streets of Hauz Khas of Delhi, Biryani Singh was placed on the food street of south delhi. The design is linear, with the depth of the space being 34ft and a width of 6ft . The front half of the space is for customer service, while the latter part is occupied by the kitchen and workspace, which can be accessed via the wooden batten door at the counter. The interaction between customer and service support takes place through billing counter.

The repetition of yellow woody slats, both vertically, add to the terrazo chips on the counter and the mosiacs on the floor, give dynamics, movement and colour. With a composition of simple materials, the illuminated box stands out, demarcating the entrance and screaming brand recongnition.



EXISTING FRONT FACADE - BEFORE





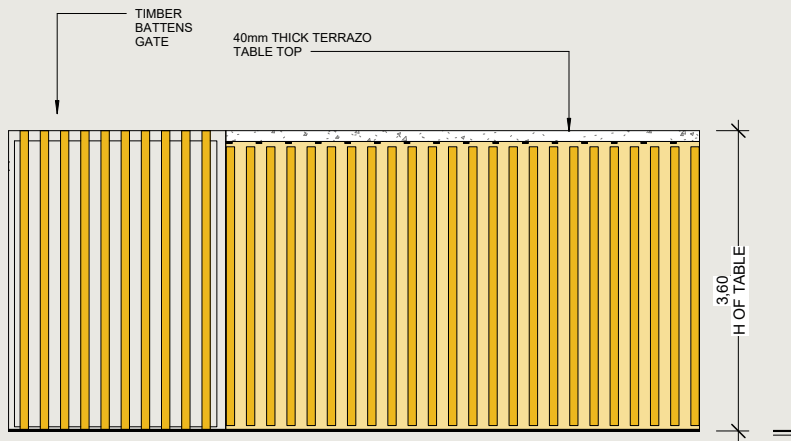
FRONT FACADE - AFTER

The front facade explodes with the brand colours, standing out in the grey and black street-scape. It is meant to pull a curious pedestrian in, potentially turning them into a customer. Its vibrancy also imbibes the vision of this young startup and their brand ethos.

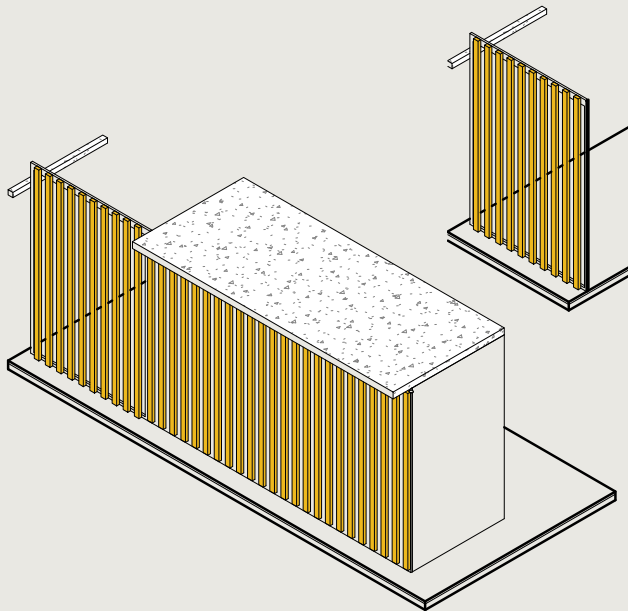


INTERIOR LAYOUT

The interior space reflects the atmosphere that the front facade screams of. It heightens the senses of the users.



ELEVATION



JOINERY

Custom made joinery and billing counter



SimBal Studios

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simbalstudios@gmail.com