



TRANSPARANCE 16.0

HYBRID HOMES

PROJECT BRIEF

- ❑ A house has to be designed for a client , in Amritsar , Punjab, India., who have recently moved here from Delhi., due to their desire to be close to their family and have better life quality.
- ❑ So a home that helps them relax, enjoy, maintain healthy living, work in different environments at home and gives them sufficient space to explore their hobbies and interests and allows them to enjoy nature and enjoy it.



HUSBAND

Age: 37 years

Occupation: **Marketing Manager in an MNC**

Cultural Background from **Punjab**

Interests keen interest in fitness, indoor outdoor games and exploring new things, taking care of the house



WIFE

Age: 34 years

Occupation: **Physician consultant**

Cultural Background from **Kerala**

Interests very outdoor person, keen interest in music



PARENTS

The clients parents are expected to visit them at least twice in a year. With both set of parents growing older, there might be a possibility where one of them might stay with them for a longer period of time.



SON

Age: 5 years,
student , doing online classes

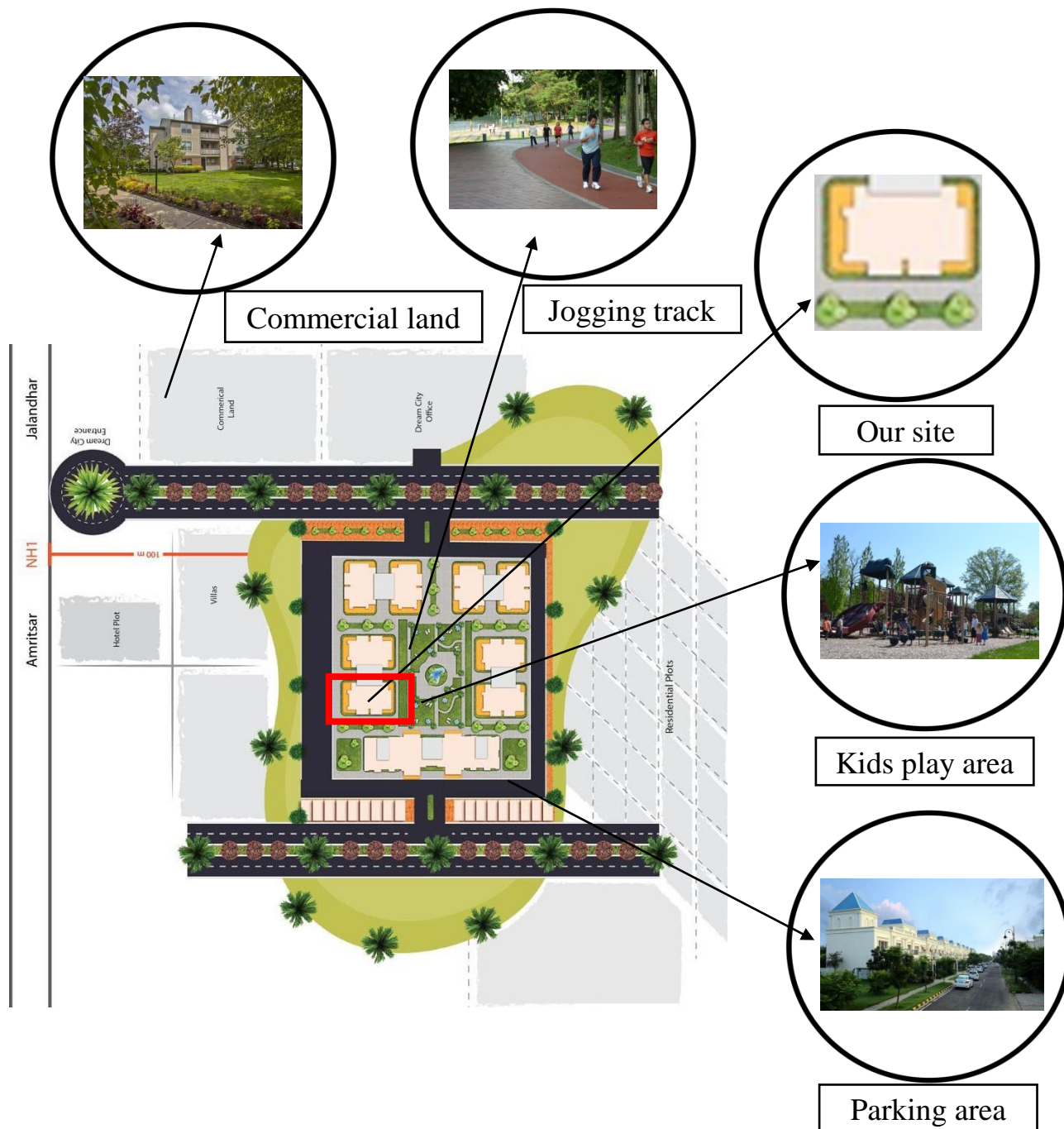
PROGRAMME BRIEF

- ❑ Environmental degradation over time and the current pandemic condition has served to remind us how important homes are to our wellbeing. Therefore, a design solution which caters to the physical and mental health of people.
- ❑ Also, the uncertainties of life makes it essential to have a house which is more future ready and adaptable to the changing needs of the family.
- ❑ Bringing pleasure and meaningful connection to the outdoor spaces is important for visual contentment, relaxation, working, physical activities and pursuing interests like gardening.

SPATIAL REQUIREMENTS

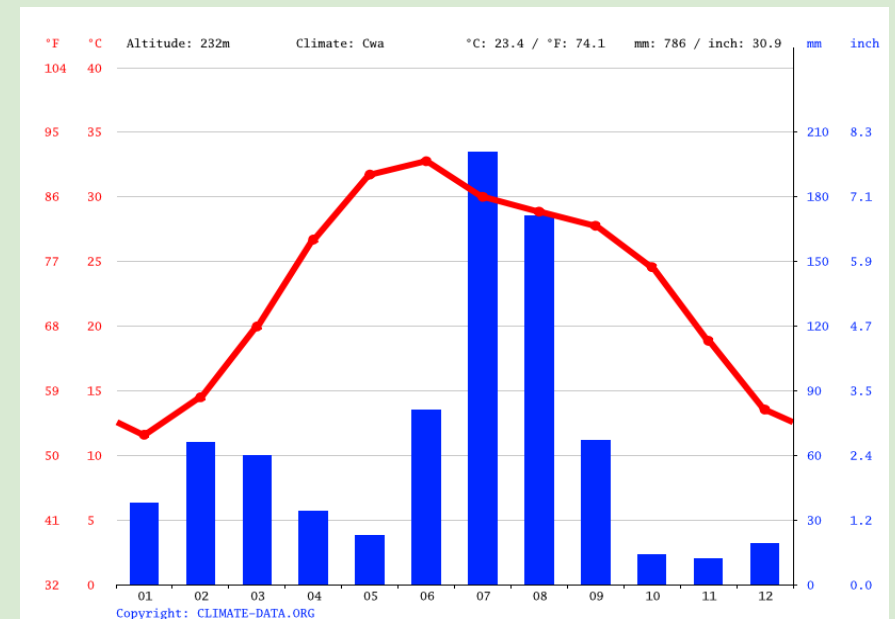
- ❑ Master Bedroom with a view of courtyard.
- ❑ Third bedroom converted to clinic.
- ❑ Kids cum Guest Room
- ❑ Living room with a view of organic garden
- ❑ Separate workspace area has been given.
- ❑ Garden Area has been divided from the entry space of the clinic.
- ❑ Private outdoor space has been given.

SITE STUDY



The home is situated in a gated society Amritsar and is a Ground floor dwelling unit in a three story town house building

The town house is three story with separate access to the residents on upper floors



- Amritsar has a hot semi-arid climate.
- Average maximum temperature - 39°C.
- Average minimum temperature - 6°C.
- Maximum rainfall in a month - 211mm.

The proposed site has ample parking on the sides and faces a large green area.

CONCEPT NOTE

- ❑ The core value of the design is sustainability and being close to nature.
- ❑ This is achieved by integrating outdoor and indoor environment and by using materials which are eco friendly or recyclable, reclaimed, or upcycled.. The outdoor spaces are thought of as spaces for relaxation, working, physical activities and pursuing interests like gardening and most important provide visual delight to users outside and inside.
- ❑ Wherever possible rooms will be designed so that they can be used in multiple ways. Upcycled decor items will also be used in this house.
- ❑ The aesthetics of the home are contemporary, with use of a few accent colors to add vibrancy. Shapes and forms used are simple, textures have been used to add value to indoor spaces.

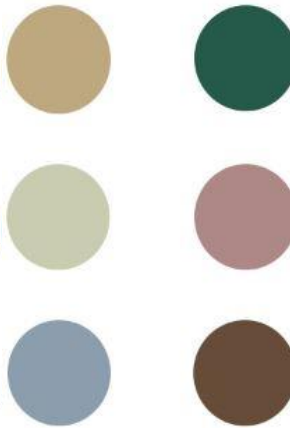
Indoor meets Outdoor

Therapeutic

Sustainable



Contemporary



Organic



Upcycle

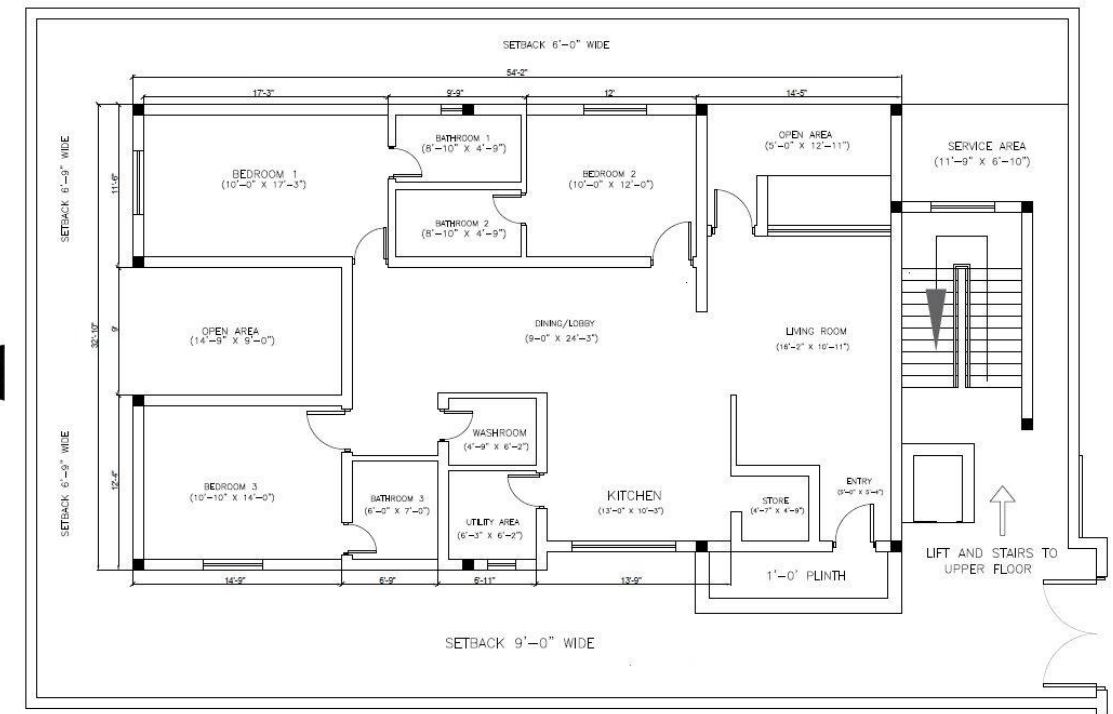


Idea of Hybrid:

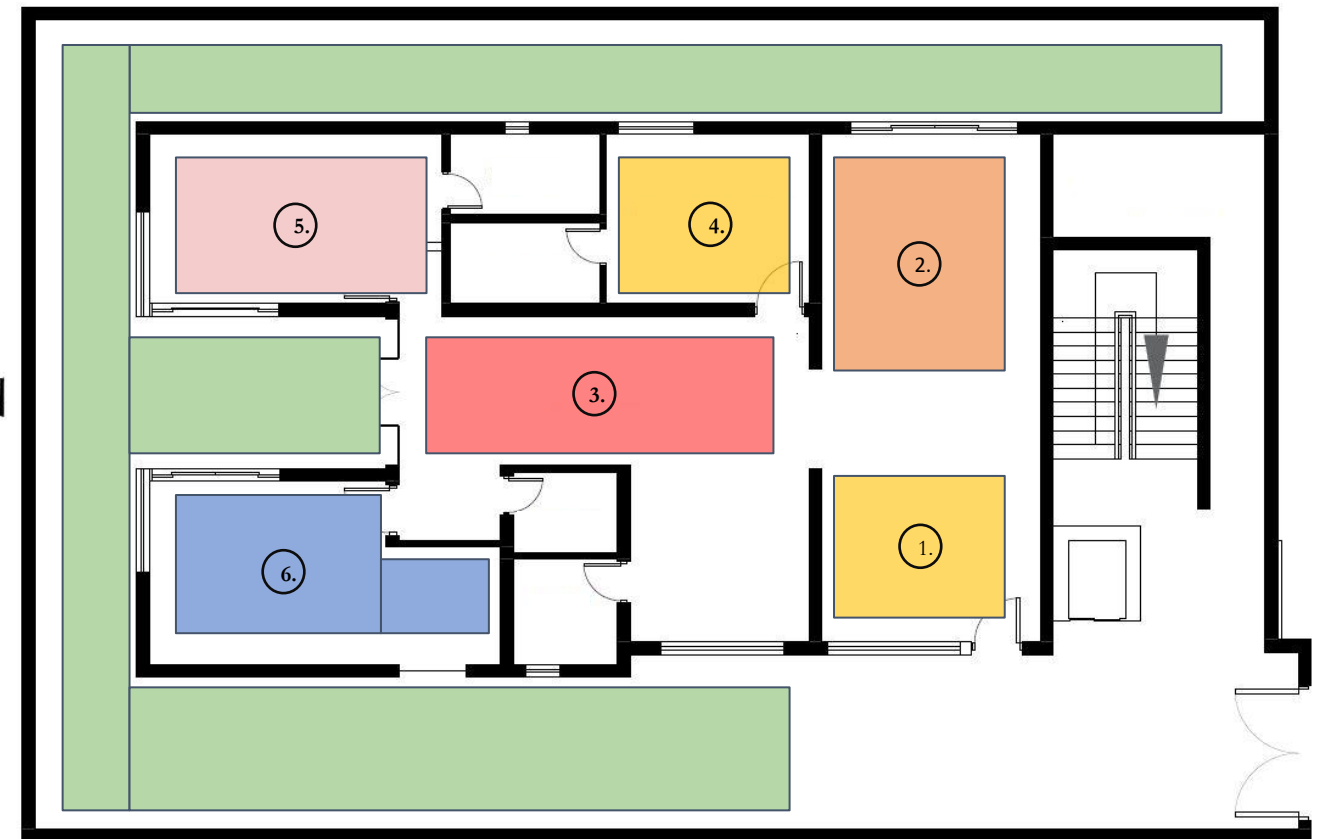
1. Hybrid of workspace and personal space in the house.
2. Hybrid of organic and contemporary theme.

SPATIAL PLANNING

- ① The house opens into entrance **lobby/ sanitization** area with shoe storage space and seating.
- ② The **living room** is an open plan , with connection to outdoor kitchen garden and dining space, having a puja space just around the entry. It can also double up as a sleeping area for guests, with a sliding folding wall given to create an enclosed space.
- ③ The central area of the house is the **dining space**, serving as a connection to outdoor courtyard, kitchen, bedrooms and living room. Thus it can be called as the heart of the house where family members can spend quality time.
- ④ The **kids room** also opens up into the central dining area and thus is closely connected to the parents room.
- ⑤ The **Master bedroom** is on the extreme NE corner of the house , with views towards the courtyard.
- ⑥ To maintain a balanced work home life, it is required that a **designated space** be given **for work**, for the lady who is a consulting doctor and also for other members if need be.

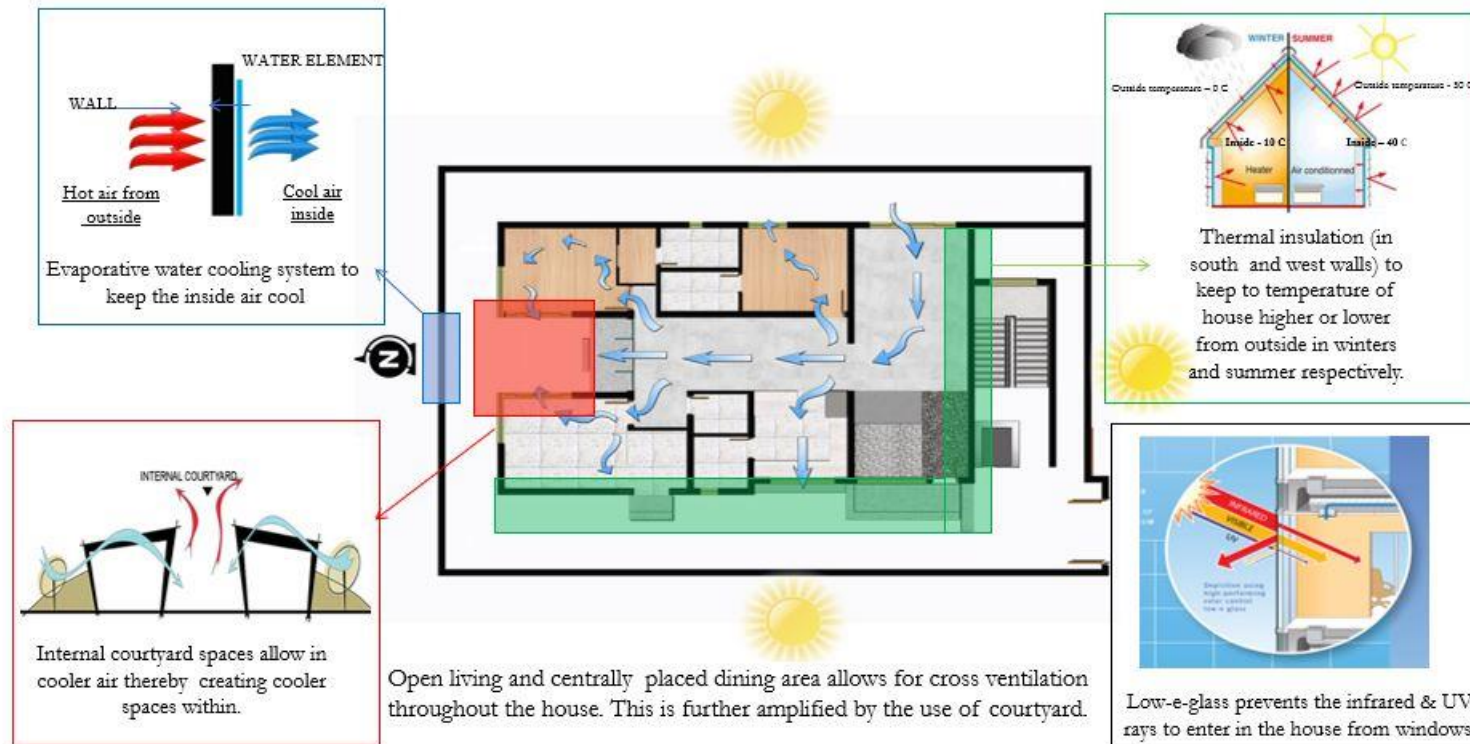


EXISTING PLAN



REMODELED PLAN

CLIMATIC CONDITION



- Amritsar has composite climate. It gets hot in summers and extreme cold in winters, with a short period of monsoon season. The site is oriented NS. The predominant wind direction is South east. Large living room windows will allow the wind to blow in and circulate through the open living dining and kitchen area before blowing out towards the courtyard.

LANDSCAPING



North side courtyard covered with pergola allows for cross ventilation through the house and provides for a cool quiet zone to beat summer heat.



Rose, Hydrangea and Arborvitae shrubs. Shrubs on the north side as north side doesn't receive direct sun.



Stepping stones in the grass to give a pathway in between the grass.



Farming organic vegetables and fruits on the east side of house receiving morning sun as the family is conscious about health.



Sustainable paving tiles in the outer area to give a textured surface.



Tahlee, Mango and Neem (Native trees) High foliage deciduous trees on the west side to block the harsh rays of sun coming towards the house.



Aloe vera, curry leaves, peppermint etc. Plants outside the kitchen window that are generally used in kitchen.

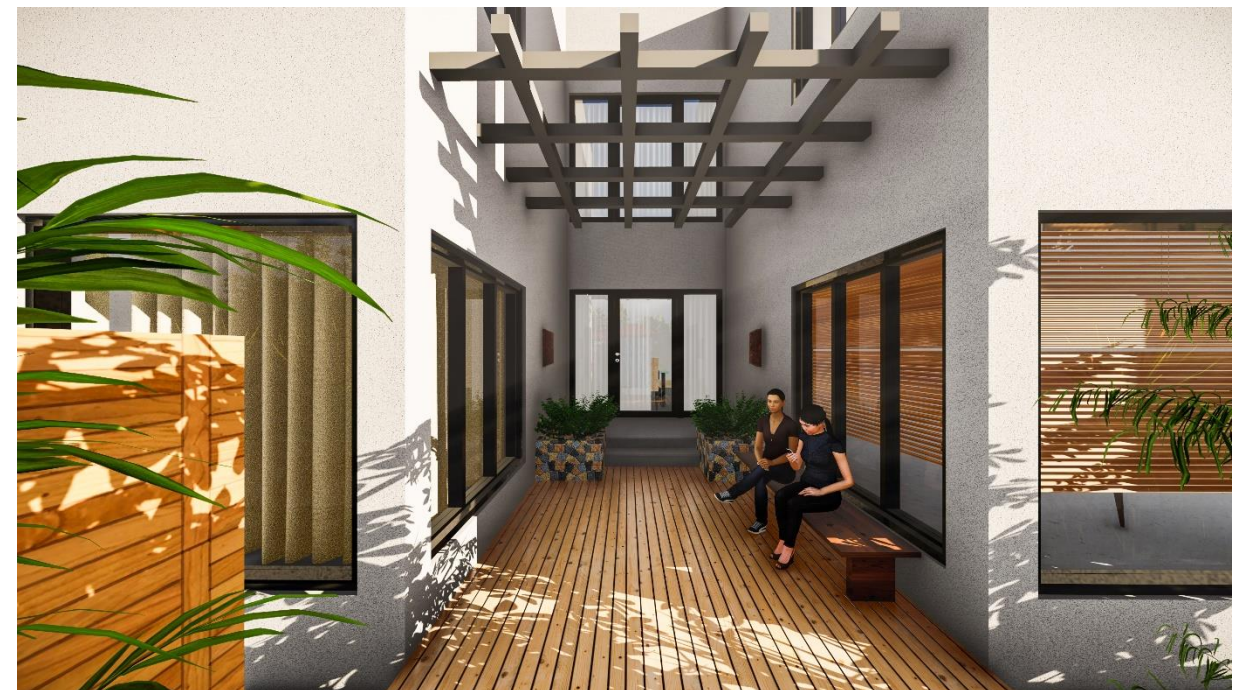
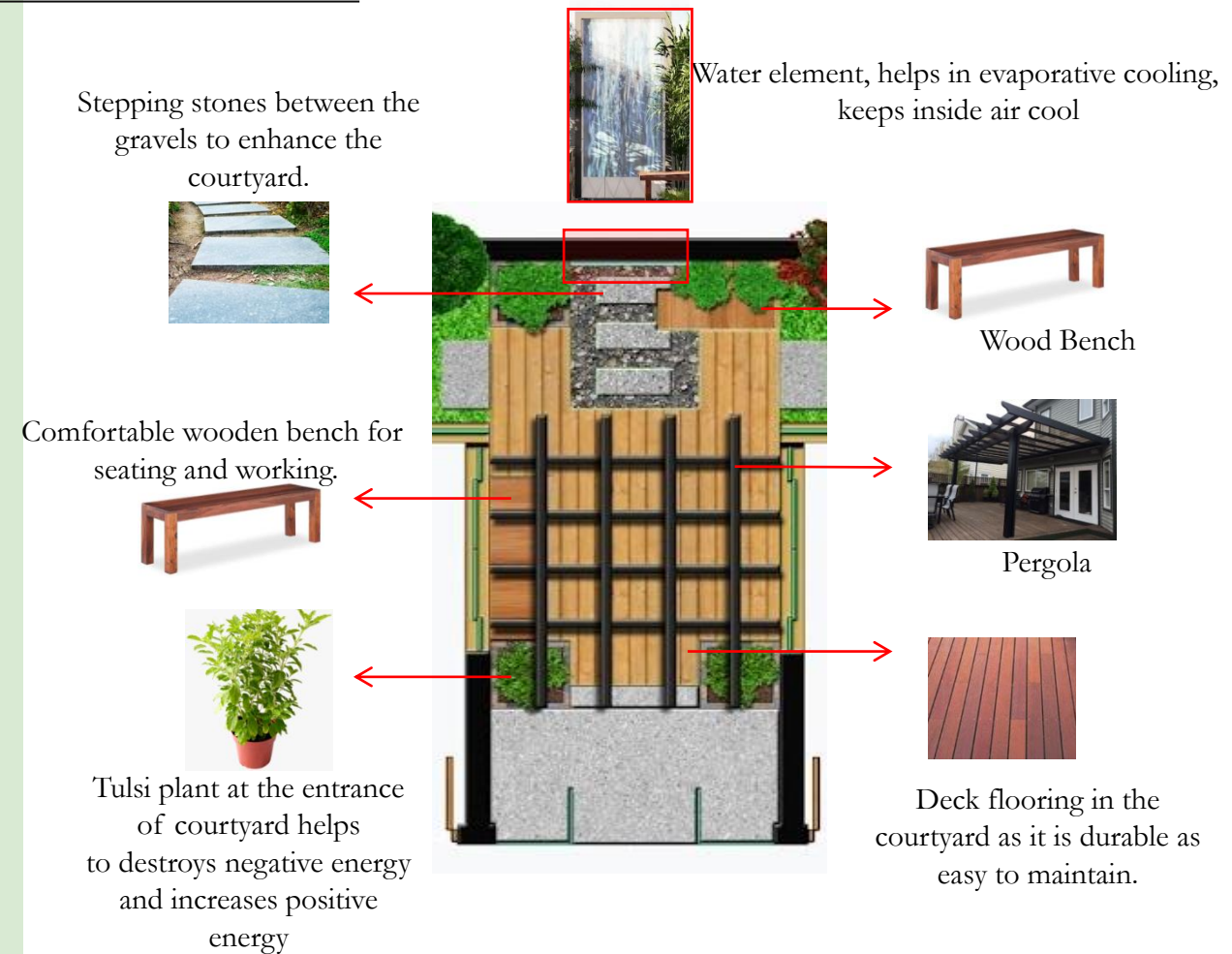


Tulsi plant at the entrance of courtyard helps to destroy negative energy and increases positive energy. It also has a lot of health benefits.

COURTYARD



- ❑ Water-body is given in the courtyard to give a very peaceful and therapeutic feeling to the house.
- ❑ The courtyard is such a place where the family can spend quality time together amidst nature.
- ❑ The courtyard can be used as a workplace.
- ❑ The courtyard having both greenery and waterbody is a great space to walk into to either clear your mind or to do things such as meditation or yoga.
- ❑ Since it is an open space, and has the waterbody too it acts as a natural ventilation to the house.



| S.no | Furniture Names | Furniture Materials |
|------|-------------------------|--|
| 1 | Side Table | Bamboo Wood |
| 2 | Wardrobe | Bamboo Wood |
| 3 | King size Bed | NFC Wood board Bedding: Organic Linen |
| 4 | Headboard | Linen |
| 5 | Rug | Sheep's wool |
| 6 | Seating | Bamboo Wood Seating: Organic cotton |
| 7 | Storage Cabinet | NFC Wood Board |
| 8 | Bunk Bed | NFC Wood board Bedding: Organic Linen |
| 9 | Height Adjustable Chair | Stainless Steel Seating: Organic Cotton |
| 10 | Console | NFC Wood board |
| 11 | Dining Table | Reclaimed Wood + Eco-poxy Resin |
| 12 | Dining Chair | Stainless Steel Seating: Organic Cotton |
| 13 | Outdoor Seating | NFC Wood Board |
| 14 | Storage Unit | NFC Wood Board |
| 15 | Coffee Table | Reclaimed Wood |
| 16 | Sofa cum Bed | NFC Wood board Fabric: Organic Linen |
| 17 | TV Unit | NFC Wood board |
| 18 | Shoe rack | NFC Wood board |
| 19 | Seating | NFC Wood board + Organic Cotton |
| 20 | Console Table | Reclaimed Wood |

LAYOUT PLAN



PLOT AREA – 3708 sq.ft
COVERED AREA – 1792 sq.ft
CARPET AREA – 1645 sq.ft



MAIN
ENTRANCE

PLAN WITH MATERIALS EXPLAINED

FLOORING



1

NFC BOARD
NFC Wood is made up of waste straw which was supposed to be burned causing air pollution. It is eco friendly, sustainable,



2

CERAMIC TILES
It is eco friendly sustainable, durable



3

CONCRETE
It is eco-friendly, sustainable, very durable, is fire resistant.



4

TERAZZO
It is eco-friendly, sustainable, durable, anti-bacterial.



5

CEMENT FINISH
It is eco-friendly, sustainable, very durable, is fire resistant.



6

BAMBOO
It is eco friendly, sustainable, decreased use of woods that takes longer to grow hence helps with deforestation and is also very durable.




7

QUARTZ
It is eco-friendly, sustainable, very durable, is fire resistant.




ELECTRICITY CONSERVATION

Full height windows in every room



Thermal insulation in walls



Use of energy saving appliances consumes less energy



Use of low-e glass in windows protects from uv rays



Use of oorja lamps and led bulbs consumes less energy







3D of MASTERB BEDROOM

WATER CONSERVATION


All taps having economist water saving adapter




Water from washbasin will go to the flush tank




Water from washbasin will go to the flush tank




Soil water will go to the sewage geyser



Water canal along the side to collect rainwater and travel it to the grass



All taps have sensors



ELEVATION WITH MATERIALS EXPLAINED

ELEVATION 1



Natural stone as the name suggests is a gift of mother nature to the mankind . It is a natural creation of the nature which takes millions of years to create natural stone



Upcycled Pot is made of old pots that are reused for this décor



The wall paper is painted using **Nilaya Naturals** paint.



Low-E Glass is a glass that are used in windows and doors that protect from UV rays



Copper is a metal which is eco friendly , hand made and has many health benefits

Snake plant is very useful for homes it has many health benefits



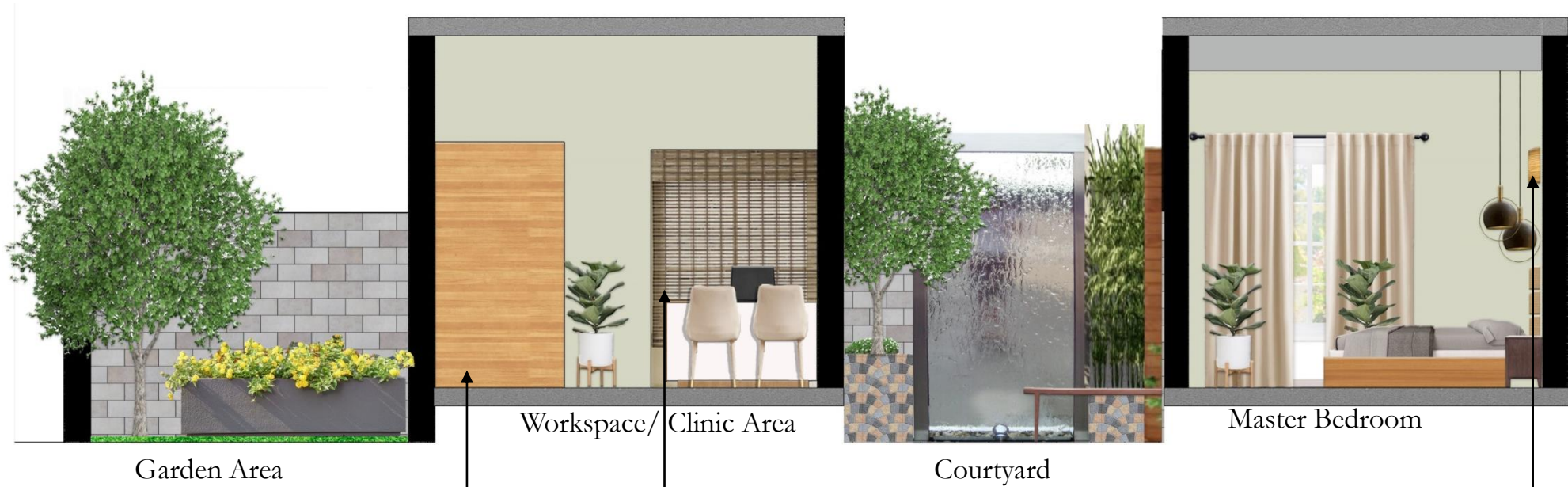
Ceramic is a sustainable, ecofriendly material use for vase

ELEVATION 2



ELEVATION WITH MATERIALS EXPLAINED

ELEVATION 3



Nilaya Naturals is made up of ingredients like soya bean extract, casein, calcium carbonate, castor seeds and neem oil has been skillfully blended to create an organic and robust paint. It is Breathable, Clean, Fresh Smell, Earth Safe.



NFC Wood is made up of waste straw which was supposed to be burned causing air pollution. It is ecofriendly, sustainable, decreases air pollution.



Bamboo made Blinders is eco friendly, sustainable, decreased use of woods that takes longer to grow hence helps with deforestation and is also very durable.



Oorja Lamps are made of waste like banana fiber, lokta fiber, stone quarry dust and waste cork to craft their distinctive lighting fixtures.



Carbon tiles are a man made tile which is designed from carbon emitted by the factories which is later processed and fused with a mixture of cement and natural components like marble derivatives. thus creating the final product.

ELEVATION 4



Garden Area

Master Bedroom

Bathroom

Kids Room

Play area for kid under bunk bed

Living Room

CONSERVATION OF ENERGY:

ELECTRICITY CONSERVATION:

LED BULBS: Using LED bulbs we they use up to 90% less energy than standard incandescent bulbs. Philips LED bulbs are also easier on the eyes, thanks to meeting strict Eye Comfort* criteria including flicker, strobe, and glare. They can last up to 20 years.

FULL LENGTH WINDOWS: During the day, there is minimum use of light as we have provided full length windows and there is proper sunlight in the house throughout the day.

THERMAL INSULATION:

Thermal insulation is a great solution to reduce energy consumption by preventing heat gain or loss through the building envelope. When applied correctly, thermal insulation reduces the energy expenses of the building by about 50%.

Carbon footprint is reduced by 50% due to thermal insulation. Reduce in use of AC because we have provided them with waterbody in the outer area which helps in cooling of the house.

Total Energy saved: about 50% of the energy is saved.

WATER CONSERVATION

Eco365 Aerator's convert existing taps into water saving taps and reduce water bills and go Green. They save about 80% water.

Sensor Taps: They save about 50% of water.

➤ The house requires 900 liter per day out of which 40% is recycled, water conserved from rain water harvesting and 60% is fresh water. Using these products and methods of water recycling and harvesting we save about 40-50% of water daily.