



malhar

RESONANCE

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Good Earth[®]
building sustainable communities



GOOD EARTH

malhar

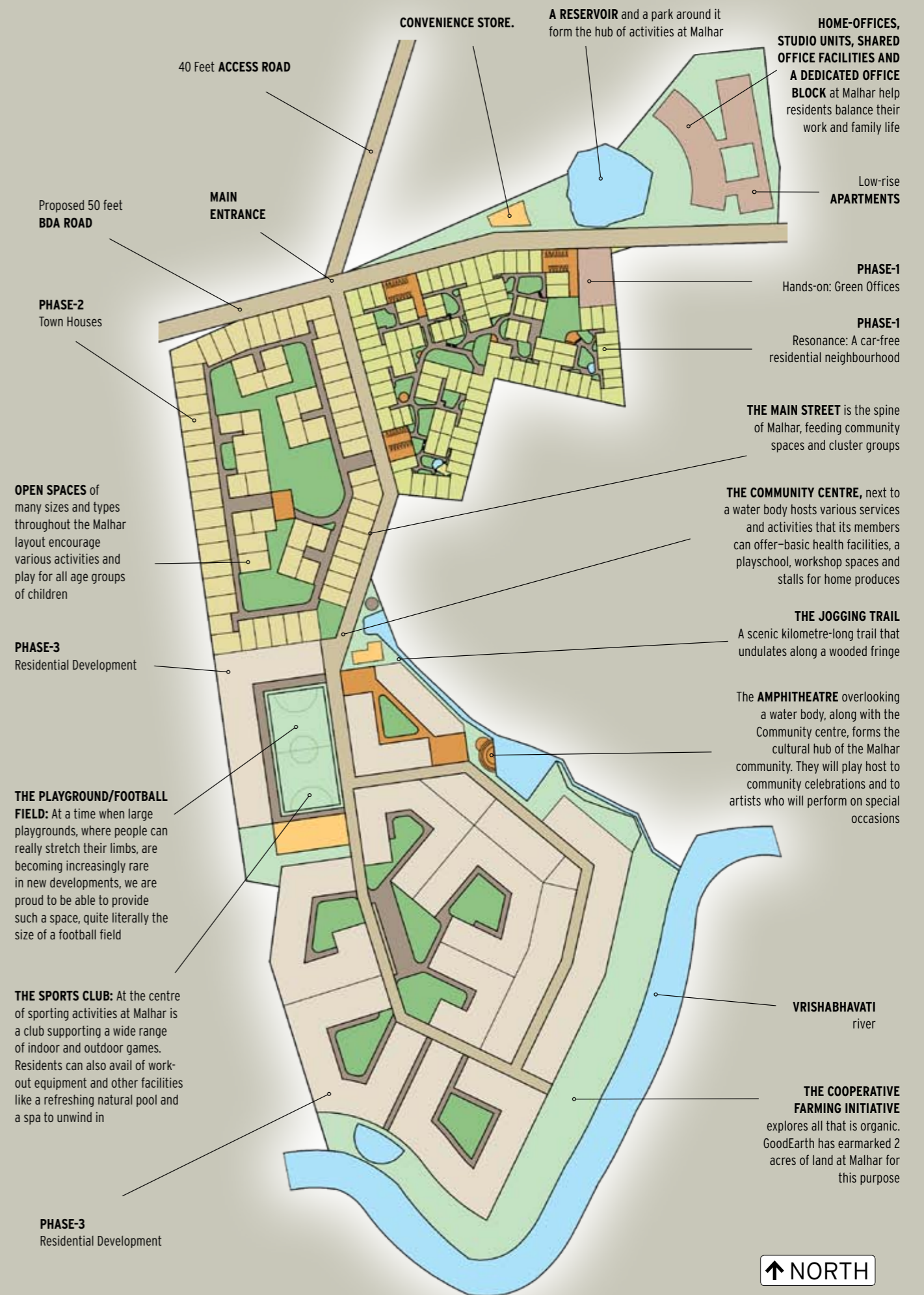
THE MALHAR ECO-VILLAGE. HOMES TO LIVE, WORK & NURTURE.

Malhar, GoodEarth's new eco-community, is developed against the backdrop of water conservation. The project will preserve the natural course of water and create a series of reservoirs to collect excess runoff and rainwater. Malhar aims to be a water self-sufficient community with a well-preserved water table.

'Live, Work & Nurture' form the leitmotif of this GoodEarth community. Malhar will bring together vibrant, like-minded people to share their dreams, values and talents; and to nurture a sustainable environment. The planning of homes, community areas and commercial spaces in the layout reflect this idea while ensuring that your home offers privacy and the expression of your individuality. One of GoodEarth's largest projects, it will house 500 families over 50 acres of land in a phased development.

HOMES THAT REFLECT YOUR INDIVIDUALITY

Every project for us is a shared journey with each of our clients. This has given us insights into how people live, use and interact with their personal and community spaces. We have engaged with people from all walks of life and every feedback has been a stimulus for us to adapt and evolve our architectural sensibilities to that of our clients.





RESONANCE

Your Neighbourhood Of Woods And Trails

Imagine going for an early morning jog along the looping street outside your home. You suddenly spot a white-throated kingfisher among the thickets by the roadside. And then you return home to find a baby civet sleeping in the little bucket the children left out in the garden. When you make your home in Resonance, prepare to embrace an extended family of rare and beautiful plant and animal species. The homes here are set amidst thick, lushly grown vegetation that wind all along the streets of Resonance and converge in thick woods that envelope the open space at its heart.

Intimate streets lead to quiet cluster parks, and the parks through wooded trails into a large playground—the hub of all activity. The Resonance neighbourhood is dotted with water bodies and recreational spaces like a plaza, an amphitheatre and a clubhouse. Trek across for a coffee at your friend's or down the grassy slope to the clubhouse. Located at the highest elevation of Malhar, the green spaces in Resonance are undulating, lending an authenticity to its topography. The thoughtfully planned spaces of the layout offer moments of solitude as well as social interaction.

Resonance is phase-2 of Malhar eco-village and will have 70 uniquely laid out town houses with attached car parks, spread over 9.5 acres. Malhar aims to bring together people from different walks of life to build a committed and socially vibrant community.

Facilities available at the Malhar eco-village:

A community centre at the heart of Malhar hosts a play school, convenience store and various services & activities.

A 2-acres organic farm for community-based cooperative farming initiative.

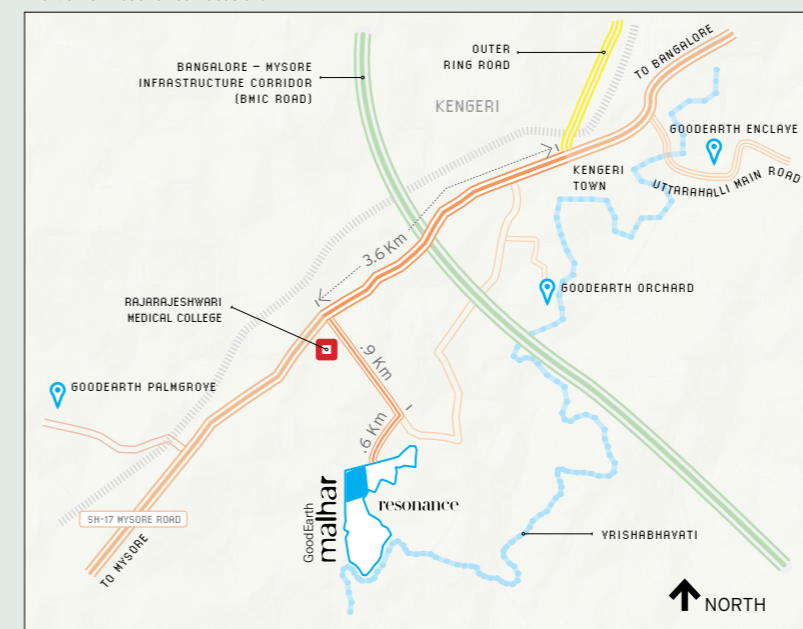
A well set-up club, available on membership, supports a wide range of indoor and outdoor games, fitness activities and has a pool and a spa.

A large playground, almost the size of a football field, is the pride of the community.

A scenic, kilometre long trail undulates along a wooded fringe of the property.



The Malhar Resonance Location.



A rustic setting with urban conveniences:

✂ Roughly 20 kms southwest of M.G. Road, 1.5 km off Mysore road, near Kengeri town.

✂ Served by two major roads—the Bangalore-Mysore highway (SH 17) and the peripheral BMIC (Bangalore-Mysore Infrastructure Corridor) road.

✂ Kengeri town is an important transit point for major bus routes.

✂ The Metro Rail phase-2 line extends to Kengeri.

✂ In addition to the facilities planned at Malhar itself, essential services and amenities like educational institutes, health care centres, markets and entertainment are at a comfortable reach.

70 Homes

*Intimate spaces,
within and around*

A loop road connects all the houses in Resonance but is restricted to vehicular traffic, making it pedestrian (and bicycle) friendly

Cluster Park.

The meeting place—A paved plaza with random seating congregates the people, streets and wooded walkways of Resonance.

Dense woods with trails gently slope down south to a cluster park that is at a split-level.

Cluster Park with children's play area.



	OPEN PLAN HOME (Type 1)
	INTERNAL COURTYARD HOME (Type 2)
	GARDEN COURTYARD HOME (Type 3)
	SPLIT LEVEL HOME (Type 4)



Cluster Park

Dense woods with trails connect the houses in the north to the rest of Resonance.

A ramped driveway leads up to the largest open space in the heart of Resonance, the playground and the community park.

A stepped and landscaped amphitheatre overlooks the playground.

The well-equipped Club offers a multi-purpose community hall for dance or Yoga and an audio-visual room for movies and matches. A path from the club leads to the rest of Malhar by foot—a quiet access to the sports club or playground in Phase-3.

Cluster planning has been a characteristic feature of GoodEarth's developments. With Resonance, our emphasis has been on streets as friendly, social and interactive spaces. These streets, with chatty street corners and cluster parks, loop around the neighbourhood and converge at the plaza and lead to a large playground.

The homes in Resonance aim to reflect the individuality of its owners in the way its spaces are created while also inviting in the beauty of the elements. The houses feature open and covered courtyards, inner courtyards, split levels and wrap-around verandahs with size variations.

How each house is oriented plays an important role in how its layout has evolved. The open spaces of the house, be it to the front or the rear, are located to the east and the south of the plot, to capture the early morning and winter sunlight. Where the backyards are north or west oriented the houses have inner courtyards with enough inlets to let in the western breeze. Another consideration was its plot location—park facing or street-facing. The street-facing homes are either courtyard homes or have a private rear yard and the park facing homes have views towards the park. Sky lit courtyards of various sizes have been integrated to as many designs as possible, to enhance the light quality within the home.



TYPE 1D
 Plot area: 3215 sq. ft.
 Ground floor area: 1855 sq. ft.
 First floor area: 1175 sq. ft.
 Total floor area: 3030 sq. ft.

TYPE 1A
 Plot area: 3020 sq. ft.
 Ground floor area: 1473 sq. ft.
 First floor area: 1007 sq. ft.
 Total floor area: 2480 sq. ft.

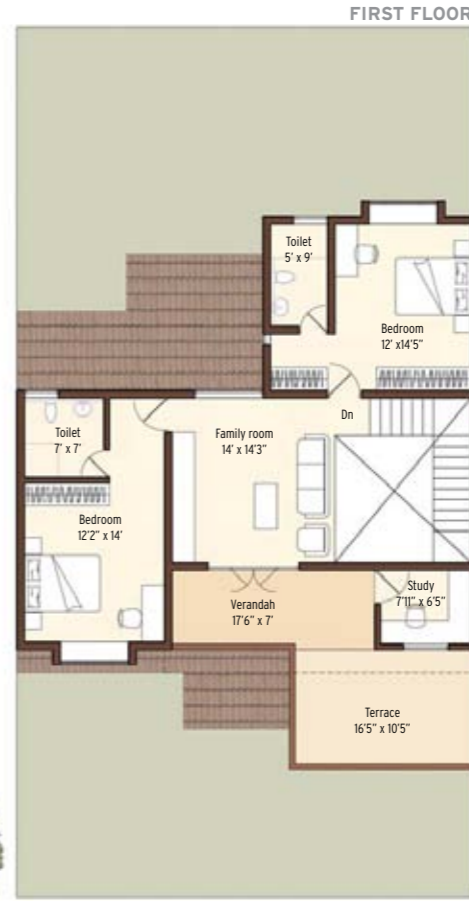
Type 1	Plot Area (sq. ft.)	Built Area (sq. ft.)	Plot Numbers
1A	3020	2480	1, 6, 8
1A (Larger Plot)	3215	2480	11, 17, 37
1B	2995	2465	B1, B4, C6
1C	3605	3200	A1, A4, C2, D1
1D	3215	3030	16, 19, 36, 39
1E	4010	3345	22, 23, 32
1E (Smaller Plot)	3765	3345	48

Open Plan Garden Home

The spaces within this house flow seamlessly from the entrance verandah through the living and dining areas to the rear verandah and into the rear garden. This creates a sense of spaciousness in an otherwise compact plan. The position of the plot in the layout and proximity to the parks will decide the emphasis on the front or rear garden. The spaces are interconnected with minimum walls, with a staircase leading to the first floor. The larger houses have a study, and/or a puja-room added to them.



TYPE 1E
 Plot area: 4010 sq. ft.
 Ground floor area: 1915 sq. ft.
 First floor area: 1430 sq. ft.
 Total floor area: 3345 sq. ft.



TYPE 2B
Plot area: 3500 sq. ft.
Ground floor area: 1778 sq. ft.
First floor area: 1322 sq. ft.
Total floor area: 3100 sq. ft.

TYPE 2A
Plot area: 3020 sq. ft.
Ground floor area: 1513 sq. ft.
First floor area: 1202 sq. ft.
Total floor area: 2710 sq. ft.

TYPE 2C
Plot area: 4010 sq. ft.
Ground floor area: 2066 sq. ft.
First floor area: 1419 sq. ft.
Total floor area: 3485 sq. ft.

Type 2	Plot Area (sq. ft.)	Built Area (sq. ft.)	Plot Numbers
2A	3020	2710	2, 5, 7
2A (Larger Plot)	3215	2710	12, 20, 30, 35, 38
2B	3500	3100	A2, A3, B2, B3
2B (Larger Plot)	4010	3110	D4
2C	4010	3485	21, 24, 25, 29, 31, C3, C4, D3



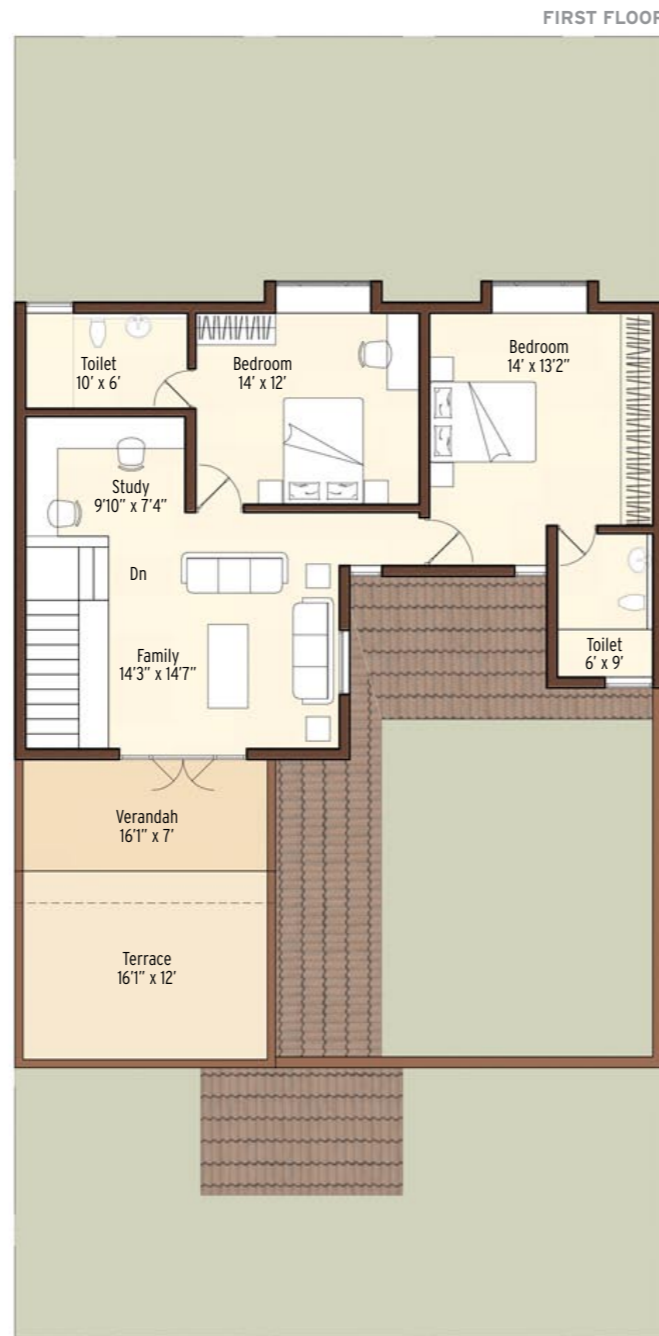
FIRST FLOOR



GROUND FLOOR

Skylit Internal Courtyard Home

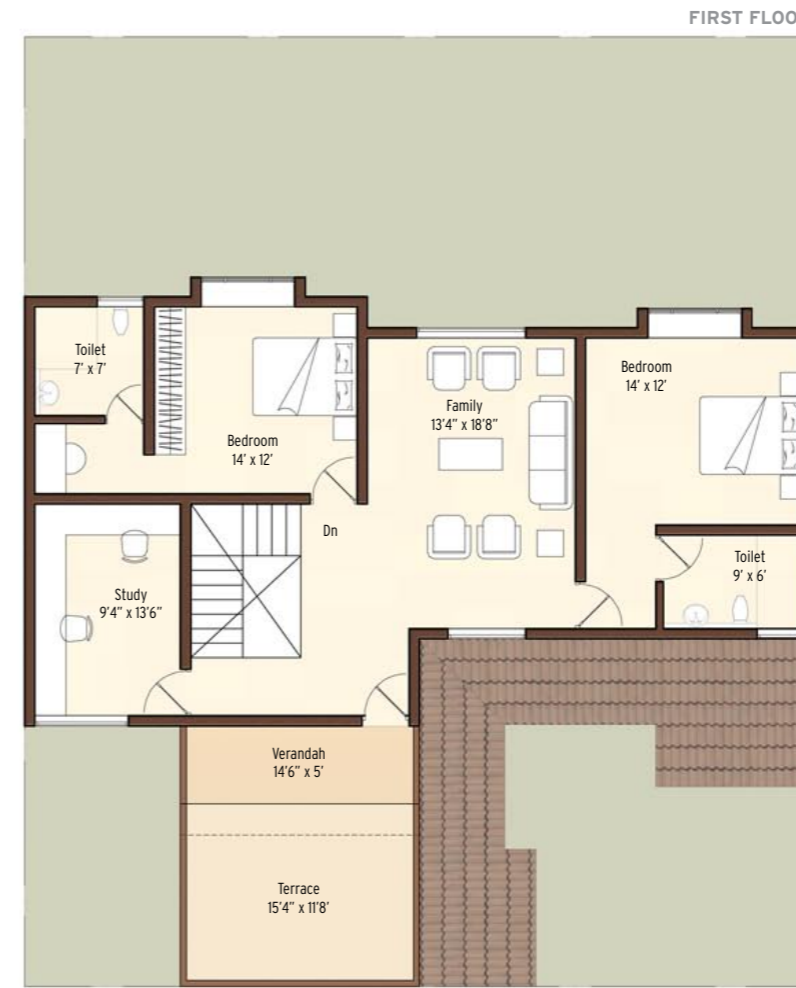
These houses are designed around an inner courtyard. The courtyard is covered by a skylight and enhances the quality of light and air within the home, apart from being a visual treat within the home. The living and dining overlook this court, making this intimate garden space a part of the house. It gives room for personal expression in the rendering of its finishes and can be used to create a unique identity for each house. The bedrooms and kitchen overlook spacious backyards. Planned as three and four bedroom options, some of the units have a maids rooms and/or toilet attached. Almost all the units have a separate study, considering the growing trend of home office spaces.



TYPE 3A
 Plot area: 3215 sq. ft.
 Ground floor area: 1525 sq. ft.
 First floor area: 1090 sq. ft.
 Total floor area: 2615 sq. ft.

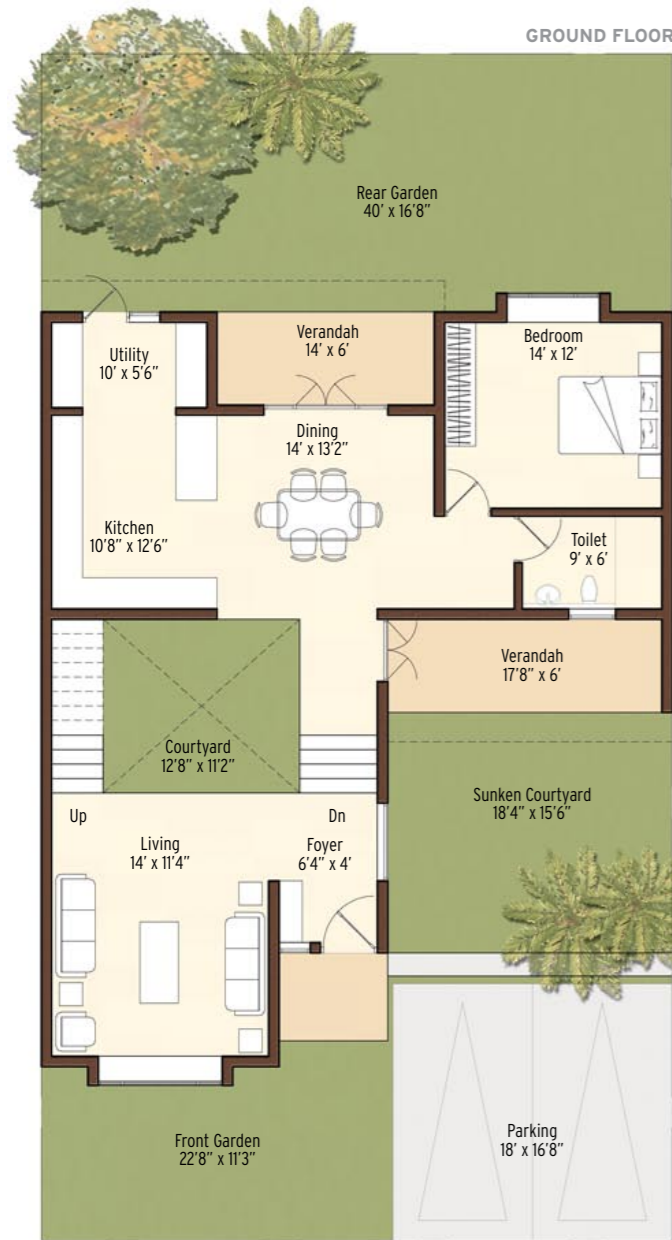
Garden Courtyard Home

The garden courtyard home is sculpted around an open to sky garden, reminiscent of the “aangans” of traditional homes. This garden space is enveloped on either two or three sides by verandahs and windows that overlook it. It provides light and ventilation to the entire house. Most of the spaces are oriented to this courtyard. A more private home, the entrance verandah has a vibrant connection with the street.



Type 3	Plot Area (sq. ft.)	Built Area (sq. ft.)	Plot Numbers
3A	3020	2615	3, 4
3A (Larger Plot)	3215	2615	13, 14, 28
3B	2995	2555	9, 33
3B (Larger House)	2995	2710	C1, D2

TYPE 3B
 Plot area: 2995 sq. ft.
 Ground floor area: 1456 sq. ft.
 First floor area: 1254 sq. ft.
 Total floor area: 2710 sq. ft.



TYPE 4A
 Plot area: 3020 sq. ft.
 Ground floor area: 1520 sq. ft.
 First floor area: 1465 sq. ft.
 Total floor area: 2985 sq. ft.

Type 4	Plot Area (sq. ft.)	Built Area (sq. ft.)	Plot Numbers
4A	3020	2985	41, 44
4B	3020	2440	42, 43
1A Split	3020	2750	40, 45, 46

Split Level Home

This type of house is located where the natural slope is the steepest, the levels within the house following that of the land. The difference in levels creates interesting intimate spaces without compromising on the spacious feel. Separated by just a few steps, these levels allow for play in the volume of the spaces creating a dynamic visual movement. The living room sits at a level different from the dining, kitchen and bedrooms—giving it a separate identity and increasing the privacy of these quarters within the house. The living room also opens out into a garden that overlooks the park while the dining space overlooks a lower level garden.



TYPE 4B
 Plot area: 3020 sq. ft.
 Ground floor area: 1260 sq. ft.
 First floor area: 1180 sq. ft.
 Total floor area: 2440 sq. ft.



TYPE 1A SPLIT
 Plot area: 3020 sq. ft.
 Ground floor area: 1473 sq. ft.
 First floor area: 1007 sq. ft.
 Total floor area: 2480 sq. ft.

Eco-features

Sustainability drives our design and choice of materials such that you and your environment forge a relationship for life. We use a combination of the modern and the traditional in our materials, techniques and details, creating a unique aesthetic that has a global flavour while being decidedly Indian. We integrate traditional crafts into our designs for their inherent value and to promote skilled craftspersons.



MATERIAL

Our choice of material is based on a balance of local availability, efficiency of manufacturing processes and durability over time. Natural materials make your homes more comfortable and age beautifully. Wherever possible we use recycled materials and always use resources optimally.

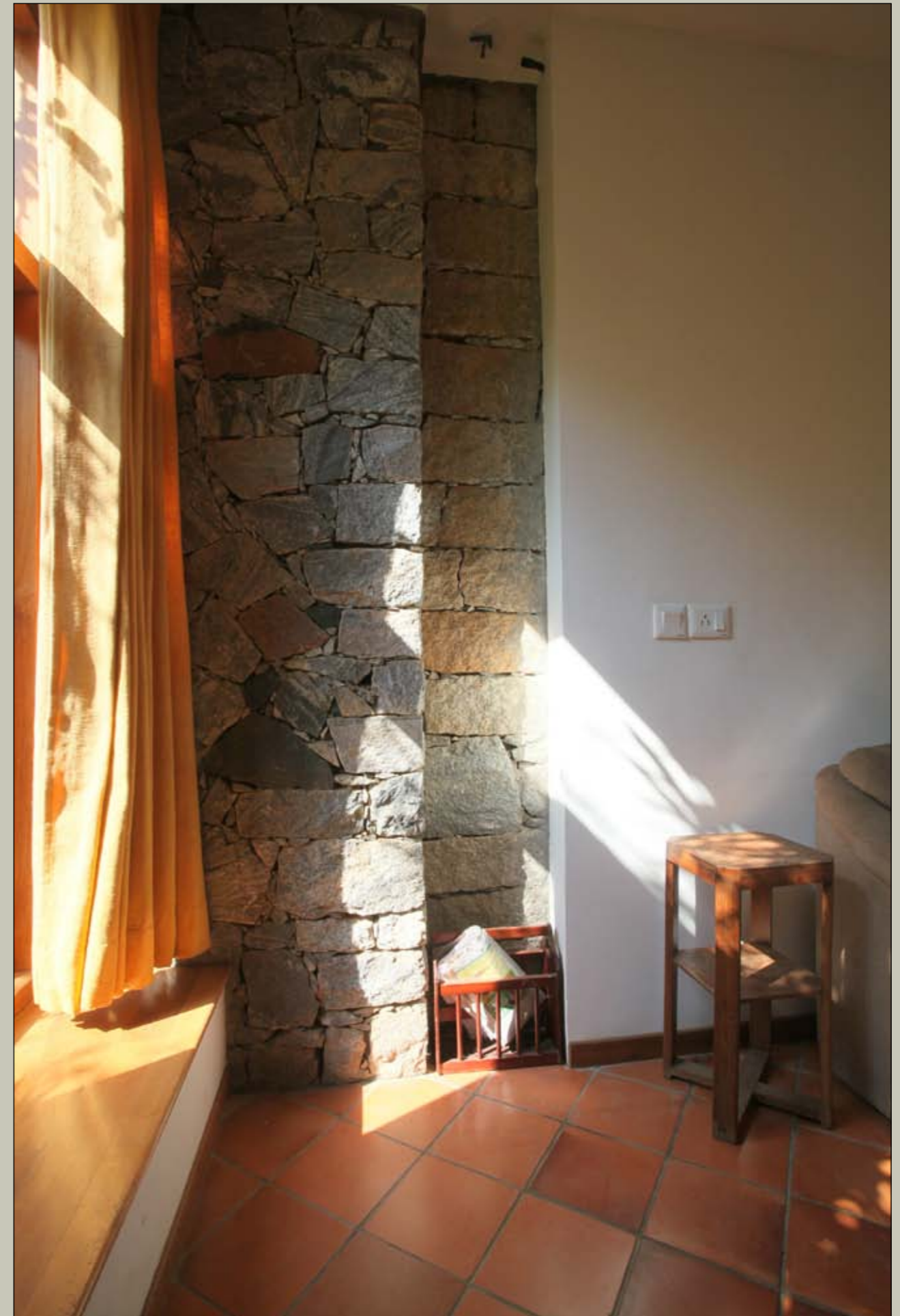
Earth blocks: Soil excavated from foundations, basements, tanks and water bodies is stabilized using a small percentage of cement and moulded into blocks. We use resources from the site itself thereby reducing the amount of materials being transported in. These blocks are specifically designed for the structure and quality control is done on-site. Besides being engineered for strength and durability, walls made of these are aesthetically pleasing when detailed well.

Stone: Another locally available material with excellent insulating properties and aesthetic



beauty. Today building with stone is a craft that is slowly disappearing with the increasing dependence on factory-made synthetic materials, and therefore the need to revive its use.

Wood: At Resonance, wood is more than just an aesthetic source and is seen as a sustainable resource. To promote its use as a renewable resource, we intend to plant timber species within the community. A warm, intimate material, it replaces high energy consuming steel and aluminium for doors and windows and can be used even for floors.





We believe in recycling old timber—from houses that are demolished, from packing cases, and from plantation timber—as opposed to forest timber.

Natural stone and clay for floors: As natural floor materials, these are good for you and your family's health. Wood and clay offers better insulation and comfort than synthetic floors. Besides they age beautifully with the years.

Paints: At Resonance we only use paints that are non-toxic, lead-free and low in VOC. Volatile Organic Compounds (VOC), commonly found in most indoor and outdoor paints, give out low-level toxic emissions into the air for years after application. Lower VOC paints preserve both the indoor and outdoor air quality of your home and help your family breathe easy.

CRAFT

Traditional crafts like carpentry, stonework and masonry are slowly dying out as they cannot adapt to newer material, technology and requirement. But the value they impart to a space, however, cannot be overlooked. We make a conscious effort to integrate these crafts and their skilled craftsmen in the building process. In all our work, we emphasise human resource rather than material.

ENERGY

Design for Natural Light and Ventilation: All the homes have been designed with adequate natural light and cross ventilation. Large windows, wide verandahs, air channels for circulation, and thermally conductive materials, are all features which reduce the necessity for artificial light and ventilation. You will be the proud resident of an energy efficient home.

Design for solar energy: Sunlight will be greatly sourced upon at Resonance to light up your homes during the day and to heat water. This in turn leads to lowered power consumption and greater savings on your energy bills. Provisions for connecting solar water heaters and photo-voltaic panels for power will be made on the roof.

Energy-efficient lighting: We have used, wherever possible, say for instance in common areas and streets, low wattage heating elements like CFL and LED lighting systems to ensure prudent use of power. So you can rest assured that Resonance doesn't generate carbon Resonance by unrestrained energy use.

WATER

Rainwater harvesting and recharging: At Malhar eco village, true to its name, rainwater conservation takes on a special significance. Rainwater is harvested and the ground water is recharged through well-spread out percolation channels across Resonance. Roof water will also be channelled through pipes, passed through a series of filters and collected in the water tank. With intermittent rains in Bangalore, this supplements the supply through bore wells. We are also contemplating digging a small open well at the bore wells and direct the rainwater to it.

Water Recycling: An on-campus sewage treatment plant recycles all waste water. The waste water from the kitchens and bathrooms is collected and treated with a series of bio-filters and then passed through planted reed beds, to emerge clean. This water is then used for gardening and for toilet flushing. The planted reed beds merge elegantly into the landscape.



WASTE

Waste Management: We propose to have an efficient garbage disposal system that separates solid and non-biodegradable waste from the organic waste. Organic waste can be collected and composted, and the compost reused as manure. Some of the non-biodegradable waste can be incinerated. For the metals and plastics, one could look at recycling agencies which can pick up the waste.

ECOSCAPE

Integrating ecology with landscape: Creating an environment for the land to rejuvenate becomes an important aspect of planning, especially for the psychological and cultural values they impart. You will be happily spared of manicured lawns or ornamentation plants that scream out "Touch me not" besides being high on maintenance and water consumption. Your environment at Resonance will be more interactive and engaging, after all you are here to forge a relationship with nature! Your home will be surrounded by a veritable encyclopedia of plants and trees that are local and indigenous and have medicinal values. Relive the nostalgia of your own childhood as your children discover insects and birds, climb trees and create imaginative worlds in the nooks and corners of Resonance. While you also experience the change in seasons as expressed through the flowering and shedding of the trees.



Design details

Bay windows to enhance the spaciousness of the rooms, visually bringing in more greenery and make for cosy spots to relax or read.

Verandahs at the front and the rear of each home to reflect its unique character and their detailing (like the use of materials like wood, stone or tile) to provide a rich textural experience.

An occasional **balcony** to add the element of surprise with its unique look—wooden balcony or a blue balcony—and lend a distinct identity to your home in the layout.

Design innovations to the form of your home to lighten its scale and proportion and create a sense of intimacy and spaciousness.

The unusual design of the **terrace railings** to act as private screens while also providing for interaction with the neighbourhood.

The courtyard walls to make a personal statement in either wire cut brick or stone or a landscaped vertical wall.

The entry to each cluster will have a distinct character. This could be in the form of a verandah, a gateway, a waterbody or the selection of foliage.

The pathways to have steps as well as ramps for children to cycle on and to facilitate access for the differently-abled.

Seating platforms and **covered pavilions** along the pathways offer spaces for relaxation and friendly interaction.



RESONANCE

Specifications

INFRASTRUCTURE

- Internal roads:** Main Roads WBM with tar black top, cluster roads with soling and paving to increase rainwater percolation.
External compound wall: Layout will be surrounded with a solid 6 feet compound wall.
Water supply: Central Pressurized water supply from bore wells and sump and overhead tank.
Electricity: Underground cables with individual meters in each house, common lighting for roads and parks.
Telephone/internet: Telephone and Internet underground cables for telephone and broadband internet to each house..
Landscape: All common areas will be landscaped with trees and parks, designated visitor car parks and playground.
Club: Clubhouse with games room, party space and swimming pool.

STRUCTURE

- Foundation:** Combination of Random Rubble Stone foundation and RCC frame.
Super structure: Load bearing masonry walls in exposed stabilised mud blocks or wire cut bricks.
Roof & slabs: Reinforced Cement Concrete slabs.
Interior walls: Cement plastered.

FINISHES

- Exterior finishes:** Walls—combination of Painted and Exposed wire-cut bricks or stabilized mud blocks artistically pointed.
Interior finishes: Walls rendered with lime and painted with oil bound distemper.

WOODWORK

- Front door:** Seasoned teakwood, artistically designed, fully panelled.
Internal doors: Seasoned hardwood, fully panelled, finished with clear polish.
Windows: Seasoned hardwood, clear glass (except for toilets), finished with cashew oil.
Grills: Mild Steel grills as per design, painted with primer and semi-gloss paint.
Hardware: A combination of Brass and powder coated fittings and branded locks.

ELECTRICAL

Three phase concealed wiring. All wiring shall be of Anchor/ Finolex or equivalent make concealed in 19/25mm dia, 2mm thick PVC conduit pipes. Modular switches of Crabtree or equivalent brand. 200 liters solar water heater of reputed brand.

FLOORING

Vitrified tiles with a rustic stone finish of Nitco or equivalent brands.

BATHROOMS

Ceramic tiles with a rustic finish of Nitco or equivalent brands. Walls in Ceramic tiles up to 7' ht., interspersed with designer tiles.

SANITARY FITTINGS

European wall mounted white closet, Parryware or equivalent make.
Taps—diverters, basin mixers and overhead shower in toilets, of Jaguar or equivalent make, CP fittings and ISI marked concealed PVC plumbing. Provision for geysers.

KITCHEN

The cabinets, counter, dado, sink and taps are not included. The electrical and plumbing connections will be provided.

We would like each house to reflect its own identity and respond to the owners' lifestyle, while not ignoring the realities of logistics and management. So each member would have some amount of choice in flooring patterns, inlays, toilet details of shelving and colour. We would also try and integrate some identifying feature in the external elevation of the house, while still making it harmonious with the rest of the homes.



GOODEARTH has been a pioneer in the field of alternative architecture and environmentally sensitive development for the past 20 years. Through our efforts, we aspire to be one of the leaders in green business in India and inspire change in the way people live.

With every project we undertake, we gain new insights and are better equipped to provide solutions. Certain concepts about the individual and the community have evolved over time. And so have our ideas. *Eco-community* is our attempt at bringing together people and nature to mutually benefit each other.

At GoodEarth, we believe that saving planet earth is a joint responsibility. We are working towards achieving innovation in architectural developments to help the planet breathe easy.

RESOINANCE

malhar



We invite you to join us in our journey towards a sustainable future.
GoodEarth is managed by a close knit group of people, involved in the project right from the concept to design, to the implementation of the smallest details.