



COMPANY PROFILE

iammies Landscapes

Landscape architecture, Garden Design,
Horticulture, Architecture, Interior Design.

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**Conceptual
Planning**



**Design &
Estimation**



**Architecture &
Interiors**



**Project
Execution**



**Turn-key &
Maintenance**



**National
Winners**



NATIONAL AWARD FOR LANDSCAPING UNDER THE HMR VIA DUCT.

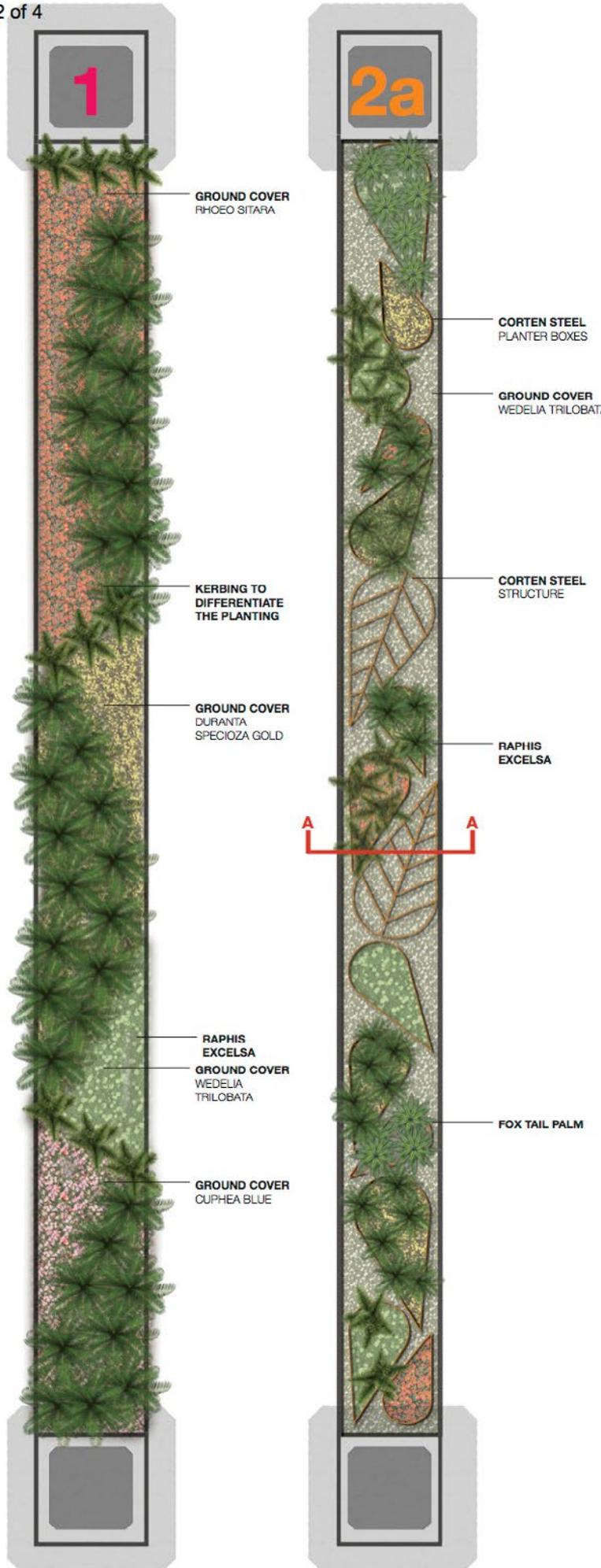
MÖBÜLÄRİTİ

ONE IDEA *MANY USES*



The project features remarkable landscape design is a people' project for all age groups which encourages walking and cycling as a healthy practice. The other unique features include: better signage, appealing spaces, secure zones; parking provision, seating arrangements for relaxation and emergency spots. But more importantly excel in Landscape Design.

Modularity is the solution.



In Hyderabad, the current scenario of traffic jams; pollution from the vehicles not only has degraded the environment but also has shown significant change in the life span of a normal human being.

Because of the elevated metro rail, the medians on the ground have created an opportunity to reverse the consequence.

A solution needs to be invented which will optimize the sound and air pollution caused, water lost in rains, time lost in traffic jams, and eventually improve the quality of life.

Hyderabad's Metro Rail aims to make that quality of life higher and enjoyable. Thus an eco-friendly and end-to end transportation solution is devised.

GREENER MODULE

Naturalistic planting methods are used in this section. It mimics nature, purifying the air in the surroundings and controlling noise and sound pollution. It's best used in sound and atmospherically polluted areas

AESTHETIC MODULE

They are less functional and more aesthetic modules. Use of corten steel planterboxes which is not only sustainable but also helps in creating multiple patterns and instances and gives an aesthetic appeal.

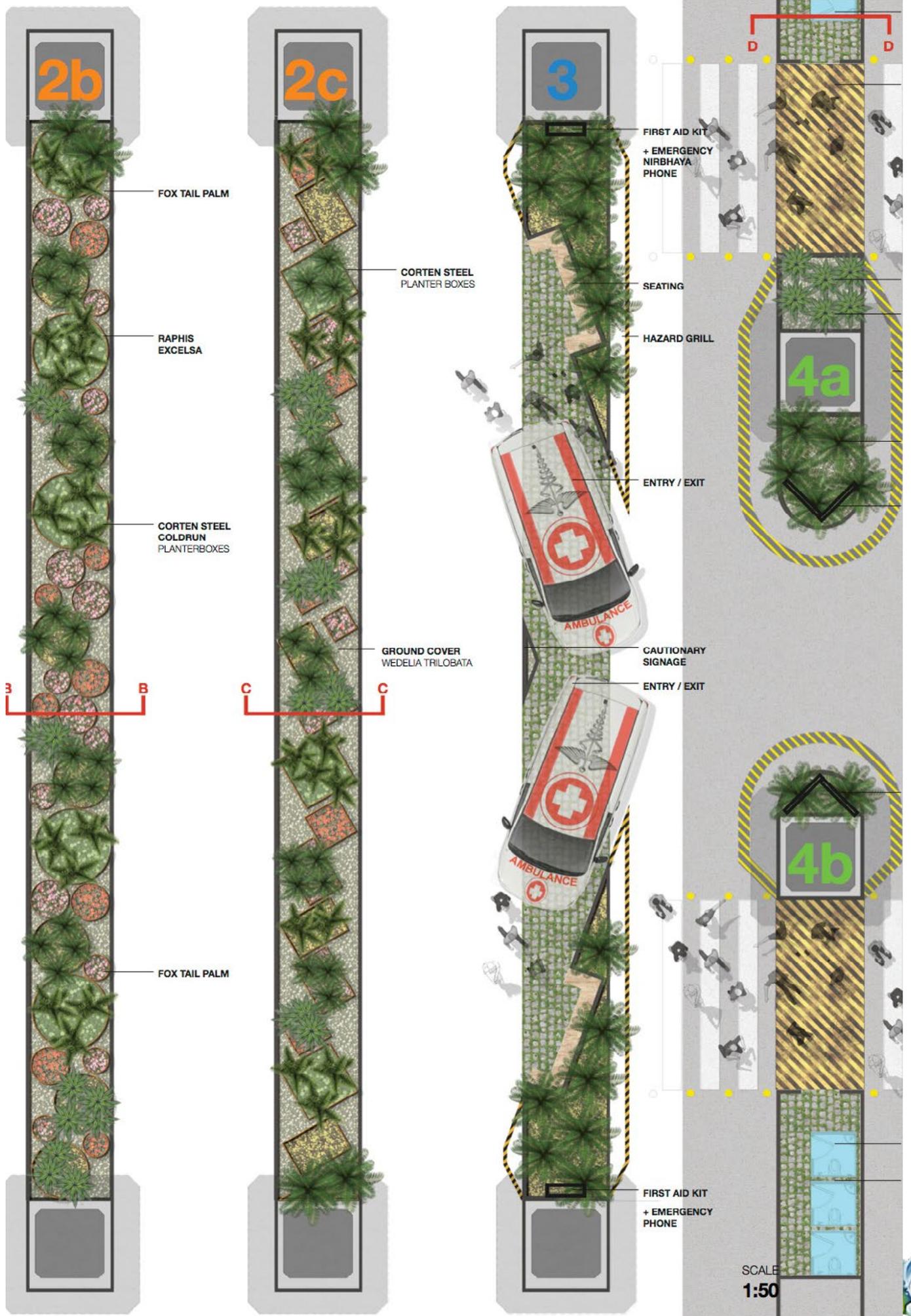
FUNCTIONAL MODULARITY

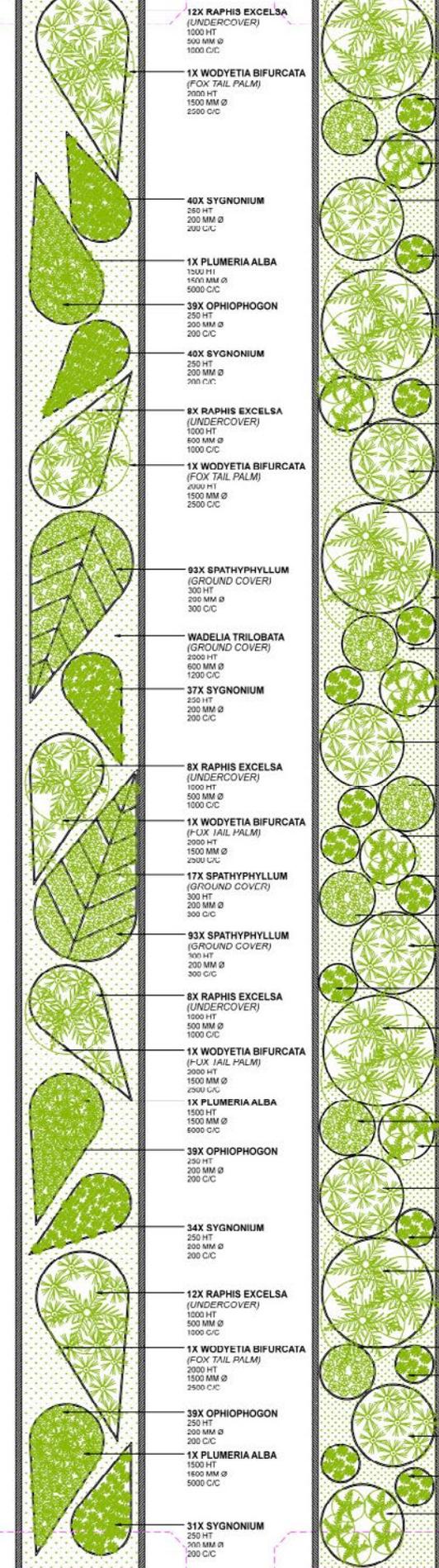
A module that can be used at high-accident prone or Health-monitoring zones is a must. Ambulances and fire-brigade vehicles can be parked under the viaduct.

JUNCTIONAL MODULE

An intelligent solution to control is by pedestrianisation and smart signage systems. Incorporating L.E.D signages for navigation and information saves energy. Here, zebra crossings have been brought to a lot more convenient threshold for the vehicular movement to incorporate pedestrian and cyclist movements. At nights the junctions have to be well lit both for Landscape prominence and safety issues







ist of Plant material which are hardy in nature. Its competency to water availability, Soil requirement, and tolerance to Drought and pollution. These Plants sustain all seasons and consume fairly less water.
ILLUTION CONTROLLERS
 / tree with light bark system is a good sound absorber.
pollution controlling species - Neem, Ficus Religiosa, Pongamia Glabra, Rapis Excelsa, Aloe Vera and all Ficus Species
and Absorber Plants - Ixora sargoneensis, Serravallo, Nerium, Rapis excelsa, Ixora Chinensis, Plumeria, Phara Nobile, Phoenix rostrata, Spathiphyllum, Naem, Bottlebrush, Silver Oak, Tree Jasmine, Copper Pod tree, FountainTree, Pride of India, Tamarind,



PLANTING SCHEDULE

The Idea is to customize it to Hyderabad.

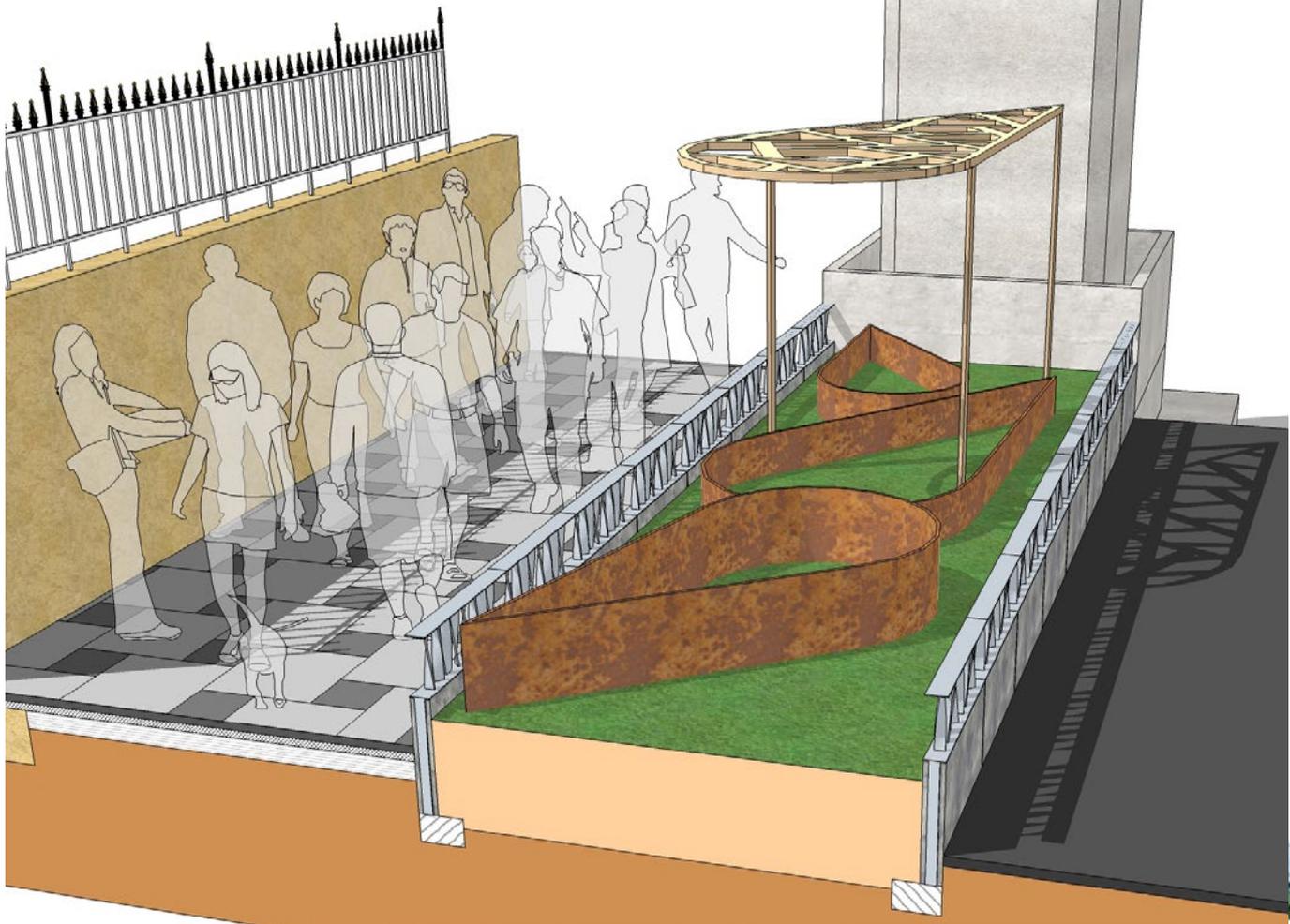
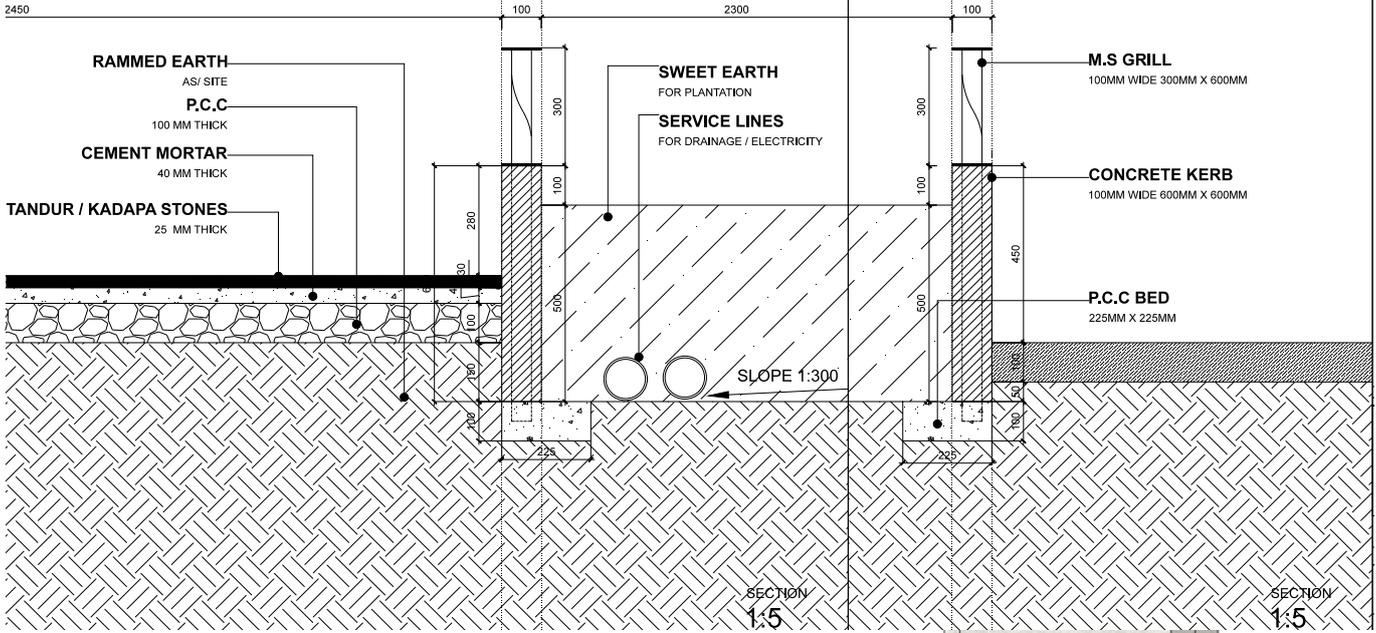
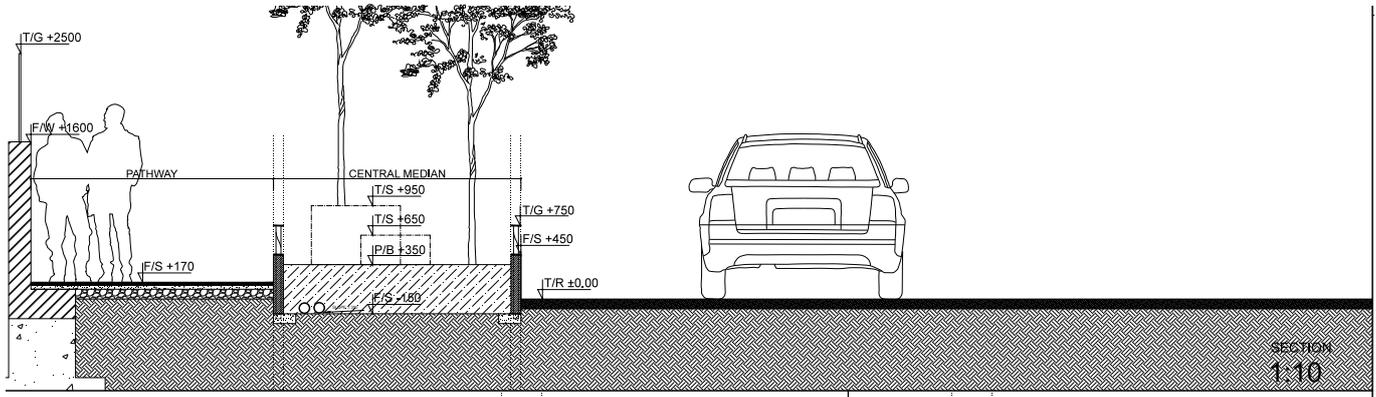
- Customization in bio-diversity;**
- Customized slender columns;**
- Public use;**
- Aesthetic quality;**
- Intelligent navigation systems,**
- Decentralized Wastewater Treatment Systems,**
- Efficient plantation systems,**
- and smart energy solutions everywhere.**

One has to use these to make oneself believe that quality of life would definitely go up.

It is a hands-on experience that will parallelly be learnt from the global standards HMDA have set







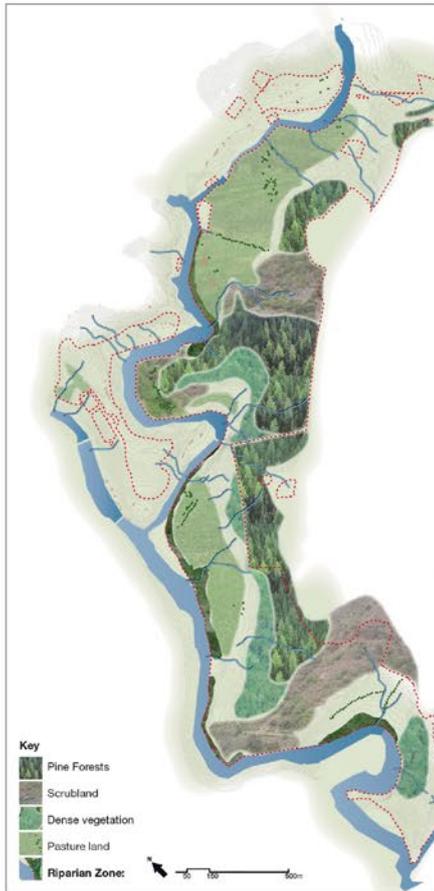
**WORKING WITH BDP, INDIAN INSTITUTE OF TECHNOLOGY, MANDI.
550 HECTARES, WINNING PROJECT-2010**



AN ECOLOGICALLY SENSITIVE SITE

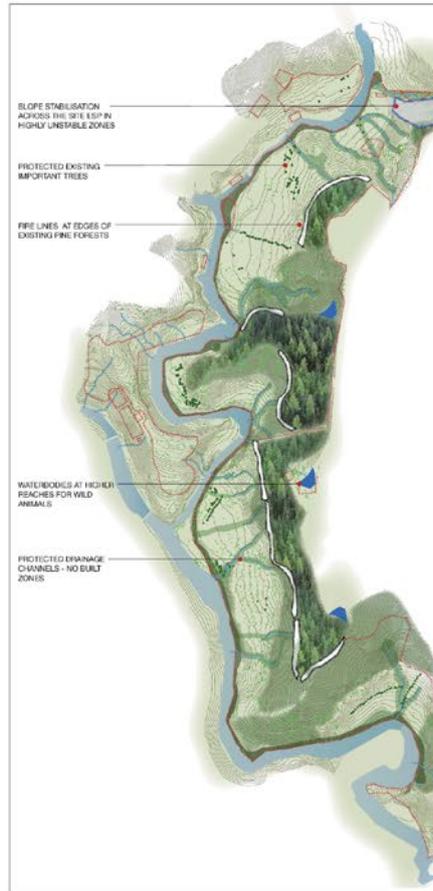
HEALING : PROTECTING : ENHANCING : SUSTAINING

Ecological Study

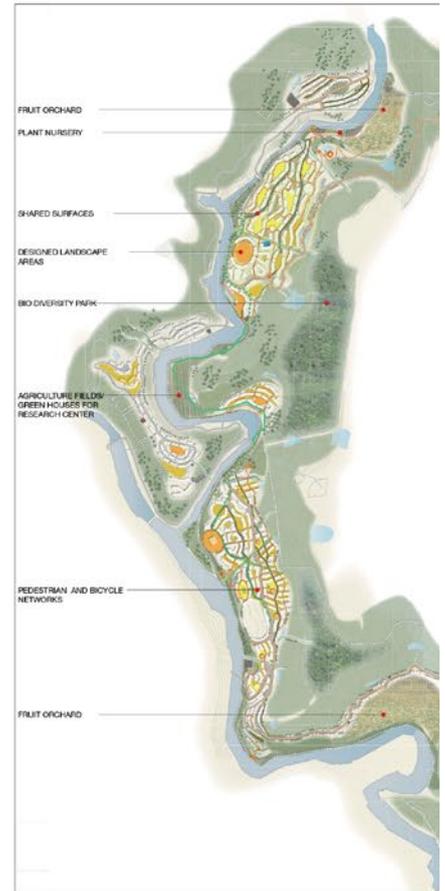


SITE AREA:	538 ACRES
Area as per masterplanning proposal are:	
AREA UNDER PRESERVED FORESTS:	141.5 ACRES
AREA UNDER STEEP SLOPES:	91.7 ACRES
AREA ON RIVERFRONT WITH HEAVY VEGETATION:	18.1 ACRES
AREA WITH IMPORTANT DRAINAGE CHANNELS:	9.1 ACRES
AREA UNDER SCRUBLANDS:	46.0 ACRES
AREA AVAILABLE FOR DEVELOPMENT:	230 ACRES
SITE AREA UNDER INTENSIVE DEVELOPMENT:	150 ACRES
AREA UNDER AGRICULTURE/ ORCHARDS:	35 ACRES
AREA AVAILABLE FOR FUTURE EXPANSION:	45 ACRES

Healing & Protecting

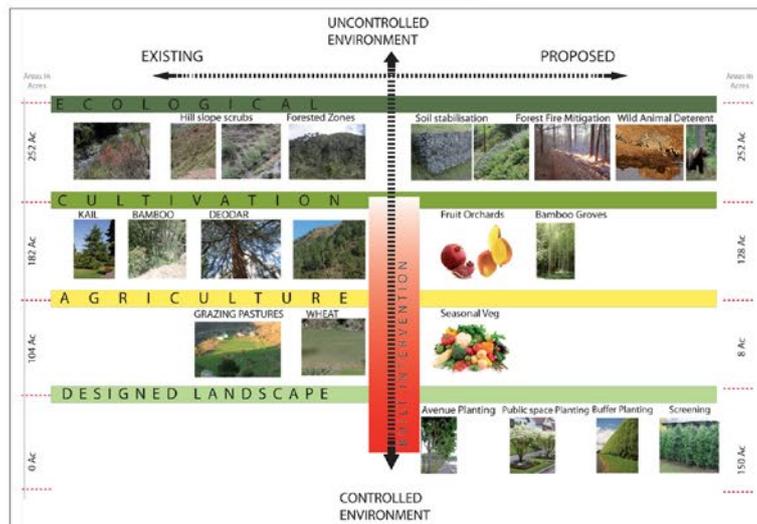


Sustaining & Enhancing



A sensitive approach to the landscape and site conditions - to heal, protect, enhance and sustain the landscape, creating a more diverse environment which establishes an attractive setting for the buildings and amenities and which naturally integrates with its environs.

The site's setting is unique and has a compelling intrinsic natural landscape which requires minimal design intervention. Like the terrain itself, the landscape design is proposed to be dynamic in nature with the ability to continuously evolve throughout the life of the campus keeping pace with the changing situations and building pressures. The landscape design is intended to work 'with' the land rather than 'on' the land.



Landscape Interventions

Stabilising Slopes:

- indigenous species to strengthen and stabilize hill slopes - Scrub, Chir, Deodar & Sil cotton.
- gabion walls / dry retaining walls made of local stone
- crescent shaped landscape holding areas

Riparian Zone:

- Along river edge, species like ivy, fig, wild pepper to bind the soil.

Water Management:

- Existing water run-off channels have been maintained
- Collection from hill slopes through check dams, ponds and percolation tanks

Wild life- flora & fauna:

- Indigenous planting palette
- Wildlife threat- alternate sources of fresh water created at higher levels by diverting the natural run off to cater to some of the wild life, thereby reducing threat to life and property.

Forest Fires:

- adopt measures for spreading awareness - creation of 'fire lines' - 6-10 m wide strip around development - cleared of all elements which can sustain a fire.
- Planting of moisture retaining species of vegetation in certain areas to mitigate fire risk.

Enhancing and Sustaining the landscape:

- areas demarcated for cultivation of fruit orchards and agriculture
- nurseries to develop and enhance the proposed planting
- bio-diversity park at the upper levels: Conservation zone for protection of native species.



3. Resource Management:

A. **Water management:**

Management of water resources, including water conservation, integrated rainwater collection, efficient irrigation schemes and waste water recycling and re-use systems will be incorporated.

Rain water from the catchment area will be collected in ponds constructed along the natural flow lines of water. These ponds are located at level higher than the buildings and hence treated water will be supplied through gravity. Ponds will interconnected for efficient management and sized to provide water security for entire year.

Water from STP will be used for orchards and landscape. Water from STPs of Phase 1 can be used for orchards, landscape and building supply – all located downstream. This This would eliminate the need for pumping water to higher level and thus reduce carbon footprint of water supply system. Decentralized collection and treatment of waste water will certainly reduce the burden on the *nallah* and river.



Tentative Rain Water Collection strategy:
Ponds along rain water flow in catchment area.

B. **Waste Management:**

The campus has been designed targeting towards zero waste.

Waste minimization is the first step in achieving this goal. The same has been envisaged through the life cycle of the project design, construction and occupancy phases.

100% of the construction waste will be diverted from landfill. The construction waste such as excavated soil will be used on the roof tops for “BROWN ROOFS”.

Construction waste will also be used for backfilling purposes, landscape features such as mounds, hard surfaces, water proofing infill on terraces and toilets.



Sustainable Approach

4. Plantation / biodiversity planning:

Landscape planning will be in consideration to the site terrain, geology, microclimate, indigenous vegetation. Plantation schemes will aim towards biodiversity enhancement and enrichment of the ecology. Incorporation of “BROWN ROOFS” with the built forms will aim at enhancing the biodiversity living on roof top. BROWN ROOFS would allow for native species to colonize over the roof over a period of time with minimum human intervention. This strategy helps rejuvenate the local species that are disturbed due to construction activities.



Trees that have to be felled for construction activities will be marked and for every tree cut, three more trees of native species will be planted within the site. Efforts will also be made to stabilize the slopes with additional not within the project boundary.

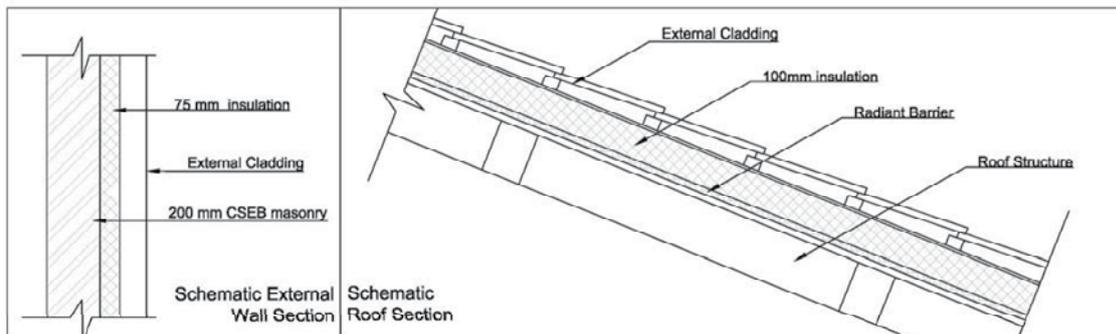
5. Building materials and construction techniques:

Use of low embodied energy building materials with due consideration for appropriate U-values and SHGC as per climatic parameters has been suggested in ECBC.

Roof : Over-deck roof insulation with radiant barrier to reduce heat loads from direct solar radiation. Brown roof will also be provided at strategically.

Wall: Wall section is composed of Compressed Stabilized Earth Blocks on inside, followed by 75mm insulation and external cladding as per architectural details. CSEBs would provide necessary thermal mass to the building while insulation along with cladding will help reduce heat transfer.

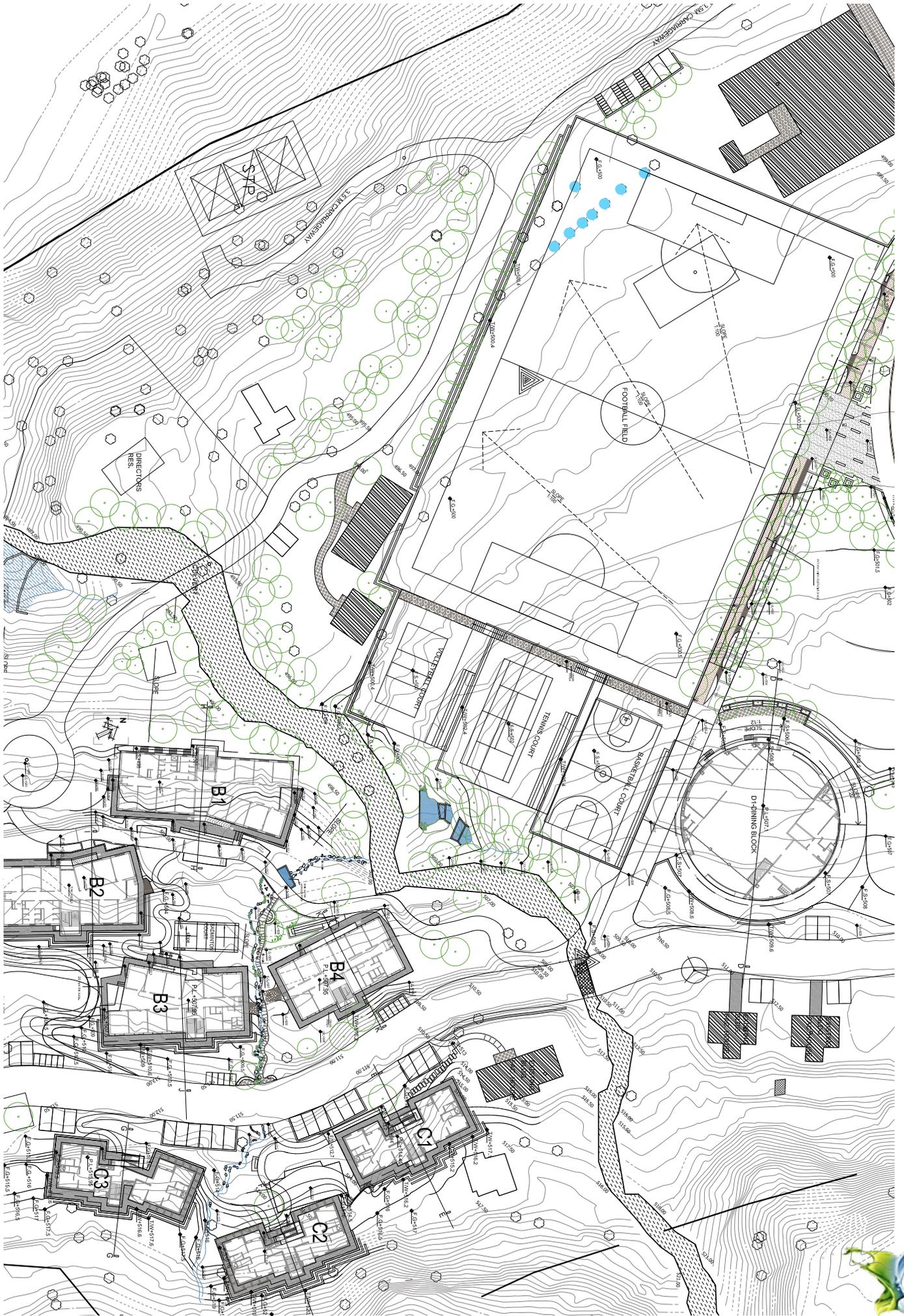
Glazing: Double glazed units with ample shading for summer sun.



6. Other important parameters that will be assessed while considering green building principles and technology systems:

- Cost benefit ratios and pay back periods
- Environmental benefits
- Comparison with conventional practices
- Management and maintenance





WORKING WITH BDP, INDIAN INSTITUTE OF TECHNOLOGY, JODHPUR WINNING PROJECT-2010



Landscape Masterplan

Enhancing existing agriculture with additional moisture captured from dew Catchers

Bamboo and geo-fabric **Dew Catchers** to capture moisture from NE winter winds

Bio-Swale for capture, storage and percolation of excess water in 1st Phase.

Ground Covers and shrubs for **soil stabilization** on the berms

Agro Forestry

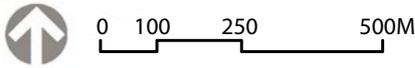
Testing Grounds for Desert Research Center (One Acre each)

Scrub Land near the Desert Research Centre.

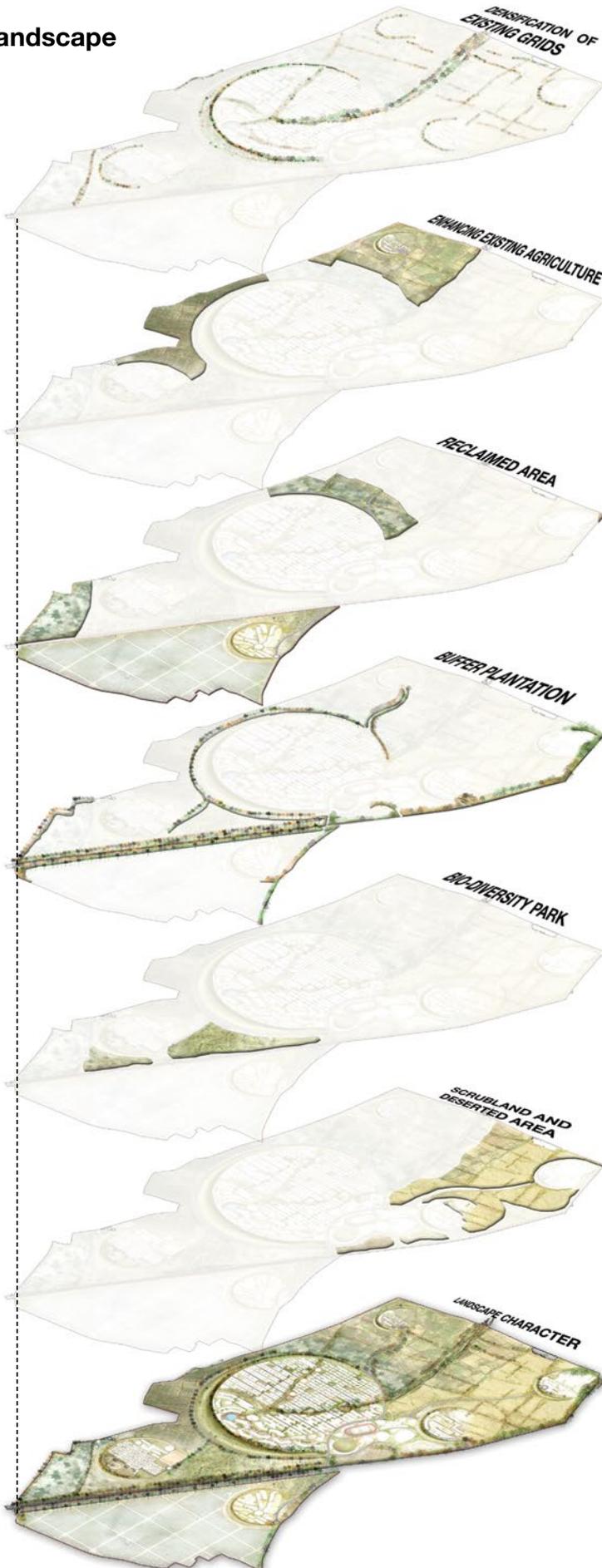
Dust and Noise buffer planning along the Highway

Bio-Diversity Park located south of the Campus near Jhipasini Village. This can serve as habitat to various species of birds and local flora.

Herbs and medicinal planting integrated under the Solar Farm



Landscape



The site's setting is unique and has a compelling intrinsic natural landscape which requires minimal design intervention. A conventional approach to landscape design would not work in this context as it would take away from the site's inherent natural beauty and jeopardize its ecological balance. Our proposal focuses on a defining a 'functional' landscape where the major interventions revolve around connectivity and movement within the campus. Like the terrain itself, the landscape design is proposed to be dynamic in nature with the ability to continuously evolve throughout the life of the campus keeping pace with the changing situations and building pressures. The landscape design is intended to work 'with' the land rather than 'on' the land.

The Masterplan proposed a free-flowing, loosely knit structure of open spaces around the built. The majority of the site has been retained in its existing natural setting with minor interventions that help heal and protect the natural ecology. The hierarchy of circulation, encourages pedestrian and bicycle movements that connect and bind the proposed development without imposing on the land.

Our landscape strategies include a number of zones which are:

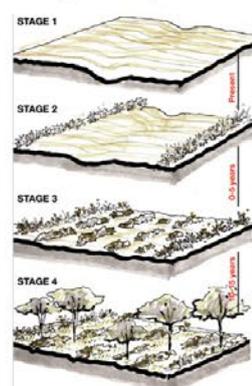
1. **Densification of existing grids** - there are some existing grids of trees on prior agricultural field divisions. It forms the grain of the site's landscape which should be densified and enhanced. This acts as a thread that ties up the entire plan.
2. **Enhancing existing agriculture** - existing agriculture should be encouraged and enhanced by involving the community and introducing new technologies. These can be subdivided into agri-silviculture, agri-horticulture, horti-pasture & water-less agriculture.
3. **Reclaimed Area** - existing scrubland needs to be reclaimed in different stages to achieve sustainable growth and development in the future.
4. **Buffer Plantation** - 20 m wide along the main highway to screen campus from noise and pollution.
5. **Biodiversity Park** - located south of campus near existing water body in village Jhipasani, due to which there is a lot of bird movement from different areas. This area can become a suitable habitat for these species.
6. **Scrubland & Deserted area** - located to the north-eastern corner of the campus. This space has been left in its natural condition, at the centre of which exists the Desert Research Institute and existing fauna and flora typical to the desert region will be encouraged here.



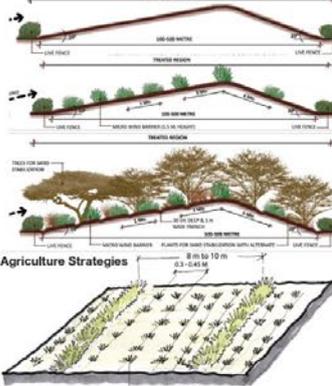
Biodiversity & Ecology



Phasing Plan for Open Areas

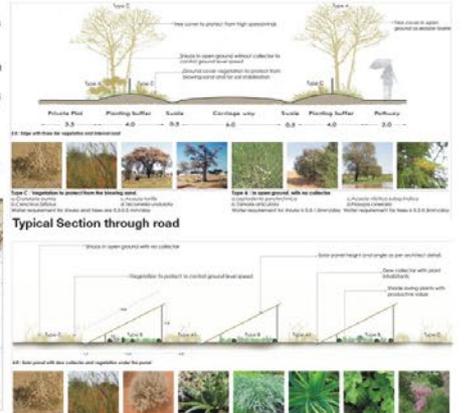


Strategies for Slopes



Strategies to be followed in all phases

1. Demarcation of existing trees on agricultural bunds.
2. Plantation scheme in different areas on site.
3. Reclamation process on different parts of site (Live fencing - Wind Barrier - Re-vegetation)
4. Encourage the existing agriculture through various strategies in all phases
5. Construction of small berms as part of landscape element.

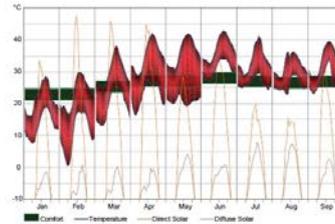
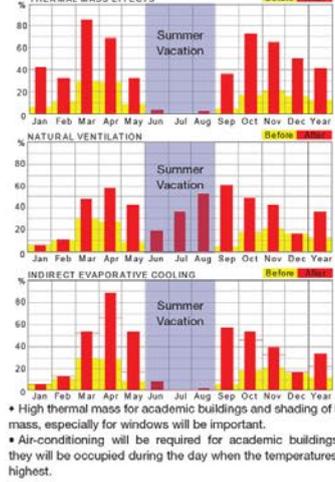


Mixed cropping - 75% of pearl millet + 25% each of moth bean, cluster bean and mung bean. Crops like pearl millet, sorghum and maize with legumes like clusterbean moth bean and cowpea increase soil yield
 Inter-cropping - Grasses like dhama (Cenchrus ciliaris) and sawan (Lasiurus indicus) with grain legumes like moth bean, clusterbean or mung bean increases the fodder yield.

Importance of Biodiversity Park
 Avi fauna - Bio Diversity Zone - Existing Waterbodies

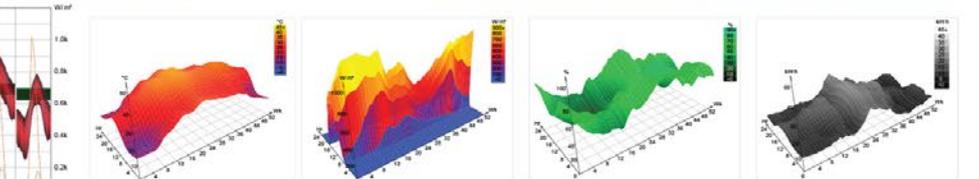
Microclimate

Passive Design Analysis



For most times of the year, temperatures are above the green comfort band - with large diurnal variations, typical of a desert climate.

Solar Insolation Per Design Typology Showing Shaded Streets and Beginnings of Outdoor Thermal Comfort Analysis



Temperatures and Direct Solar Radiation
 • Landscape shading from trees and vegetation is desirable. This has the added advantage of cooling from evapotranspiration of plants.
 • Direct solar radiation is available in abundance throughout the year. This presents an opportunity to use solar photovoltaic panels for renewable power generation on site on a continuous basis.

Relative Humidity
 Jodhpur has a very low relative humidity (between 15 - 35%) during the day. Humidification will be required in controlled environments for thermal comfort.

Wind Speed
 The current site layout deflects the hot dusty winds away from the buildings through the use of large crescent-shaped berms.



Sustainable Building Guidelines

Building Construction Methods

These construction methods are endemic to the area, these effectively reduce the steel usage in the buildings reducing the ecological foot print of the buildings. Their use helps build sustainably strong relationships with the local population and bring them benefits like employment and security.

Vaults/Domes

Rammed earth block construction

Stone Lintels and arches

Stone patti roof slabs / Precast Reinforced concrete slabs

Gabion walls

Sandstone cladded walls

Thermal comfort oriented features

Appropriately designed shading devices - along with suitably placed lightselves, vertical fins help cut off the unwanted radiation and glare, and aid better diffused lighting inside the usable space.

Earth coupled buildings - Earth Berns help insulate the buildings and reduce heat gain, effectively maintaining thermal comfort inside the built envelope.

Urban Pattern/ Morphology

The streets will be narrow, suitably shaded in the summers to allow for comfortable pedestrian movement. The mutual shading of the streets is possible due to compact, dense settlement pattern. Courtyards with waterbodies and planted trellis at the roof level will keep the street shaded. The planted trellis on top helps in evapotranspiration and maintain good thermal comfort. The various roofs will be either green (vegetated), blue with Solar photovoltaic panels, black with solar hot water panels or white with high albedo finish. These roofs help mitigate urban heat island effect.

Insulation - Insulation on roof and in walls will help reduce the heat load of the building

Solar Chimneys aid ventilation without the need of electrically powered exhaust systems these along with wind catchers coupled with indirect Evaporative Cooling (in limited areas) aid thermal comfort.

Colour of Roofs

Microclimate will help reduce the surrounding temperatures

HVAC System Strategies

System	Strategy	Features
Radiant cooling		<ul style="list-style-type: none"> Low energy High Efficiency High Thermal Comfort More Healthful than Air-Based Systems Low overall lifecycle cost Local lack of familiarity with the system
Displacement ventilation		<ul style="list-style-type: none"> Much cleaner air for occupants (IEQ) Reduced cross contamination between occupants Greater ventilation effectiveness Reduced power consumption Better acoustics (less air noise) No drafts Lower equipment cost Higher initial cost
Enthalpy wheels		<ul style="list-style-type: none"> These wheels are quite compact and can achieve high heat transfer effectiveness Heat wheels have a relatively low air pressure drop, typically 0.4 to 0.7 in. of water Adds to the first cost (and maintenance) and to the fan power to overcome its resistance Requires that the two air streams be adjacent to each other
VRV / VAV		<ul style="list-style-type: none"> Fan energy savings Modularity (good for future expansion) Simultaneous heating and cooling possible without a seasonal changeover Reduced air circulation can cause IEQ issues Indoor mechanical noise changes frequently
Chilled beams and chilled ceilings		<ul style="list-style-type: none"> Reduced Ductwork Reduced AHU sizes and Fan Energy Reduced deck to deck height Quiet Operation Multi-service chilled beams possible High costs Limited experience and limited vendors
Heat pumps		<ul style="list-style-type: none"> High Efficiency Less Maintenance Performance changes with outdoor temperature Can be noisy

Energy Efficient System Guidelines

Some of the key features for energy efficiency on campus will include smart choices for efficient systems as well as the use of ICT to monitor and benchmark the energy use constantly. This contributes to the campus being a "Living Campus" where the energy using systems are monitored by the Operations and Maintenance team as well as making the campus itself an educational tool for all stakeholders.

Solar Powered Street Lighting

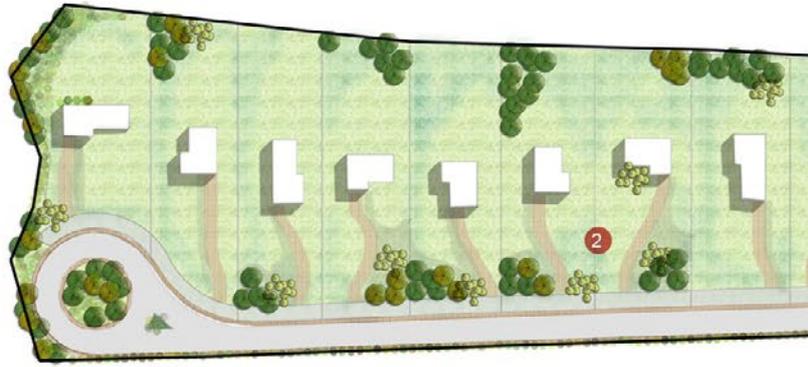
Sensor Based Outdoor Lighting Controls

Central Plant

Central Controls for Energy Monitoring

Efficient Cooling Towers

Energy Accounting and Benchmarking



LARGE SCALE RESIDENTIAL

Kondhwa Master Plan, Maharashtra

Scope: Landscape Architecture

Project year : 2013-2014

Total LA Area : 5,60,350 sft.

Project Cost : Undisclosed

Project Duration : 10 months







LARGE SCALE RESIDENTIAL
Amstoria Villas, Gurgaon.

Scope: Landscape Architecture
Project year : 2011-2012
Total LA Area : 50 Acres sft.
Project Cost : 10 Crores
Project Duration : 12 months

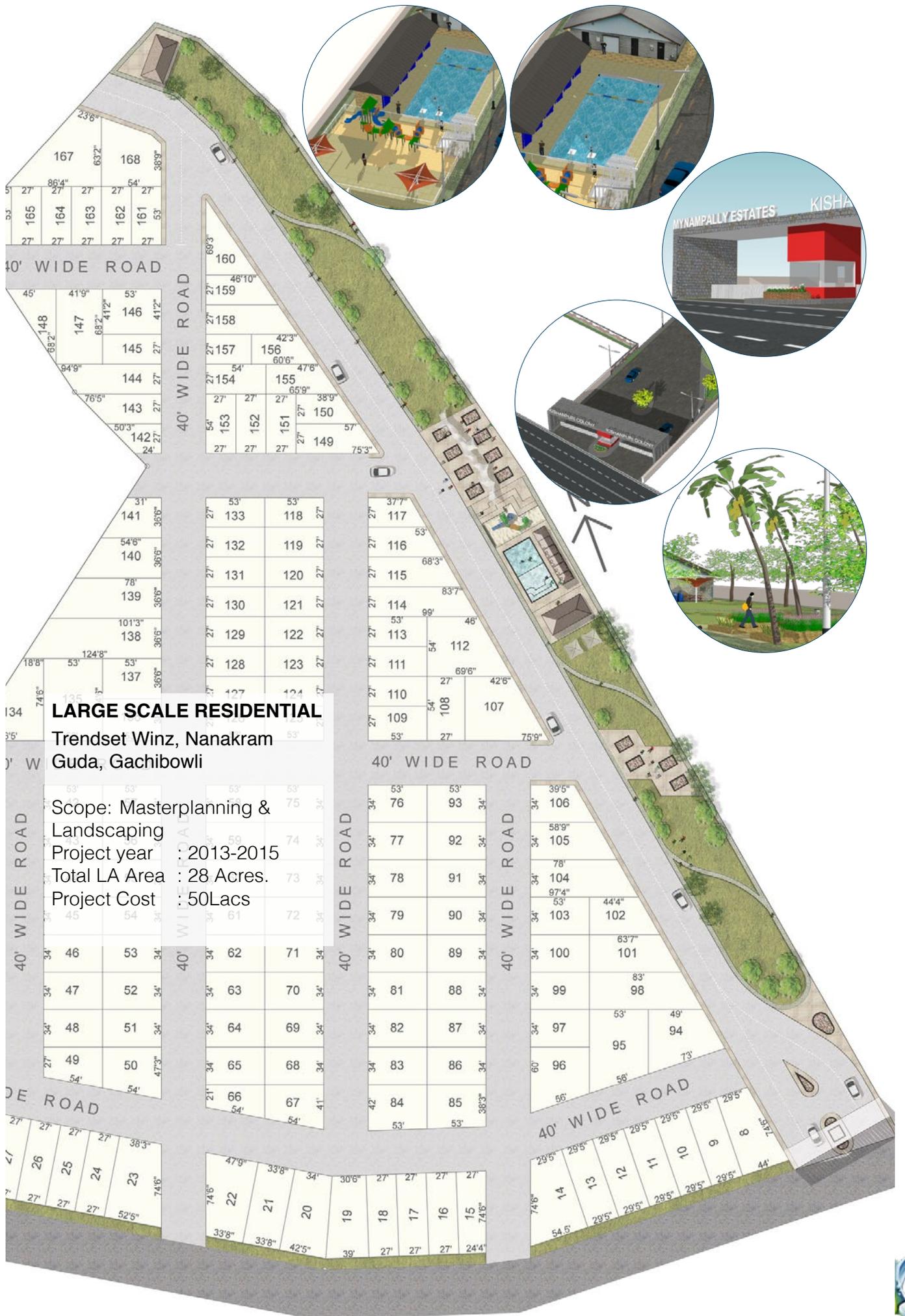


LARGE SCALE RESIDENTIAL

Trendset Winz, Nanakram
Guda, Gachibowli

Scope: Landscape Architecture
Project year : 2011-2012
Total LA Area :40,350 sft.
Project Cost : 70 Lacs
Project Duration : 9 months





LARGE SCALE RESIDENTIAL
 Trendset Winz, Nanakram
 Guda, Gachibowli

Scope: Masterplanning &
 Landscaping
 Project year : 2013-2015
 Total LA Area : 28 Acres.
 Project Cost : 50Lacs



INDUSTRIAL LANDSCAPES

Vega conveyors and automation Ltd.

Scope: Landscape Architecture

Project year : 2012-2013

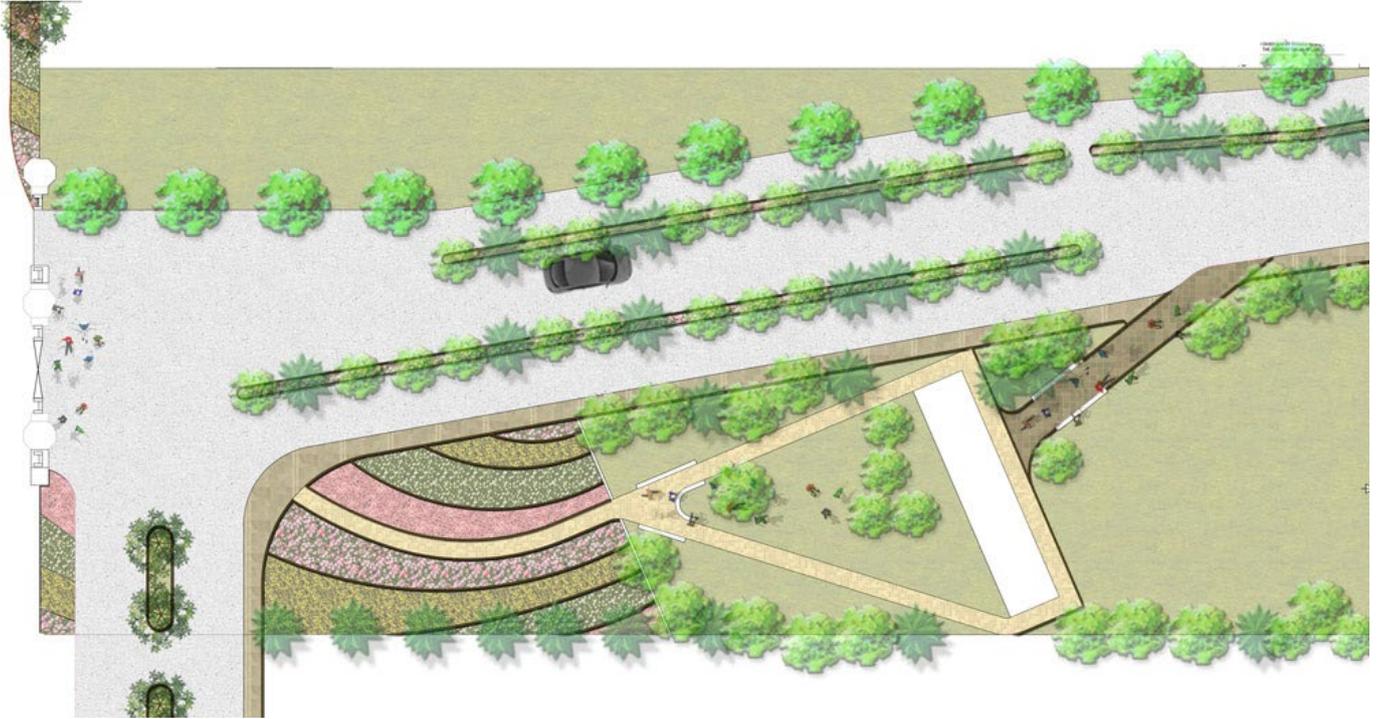
Total LA Area :25,000 sft.

Project Cost : 12 Lacs

Project Duration : 5 months



INSTITUTIONAL LANDSCAPES

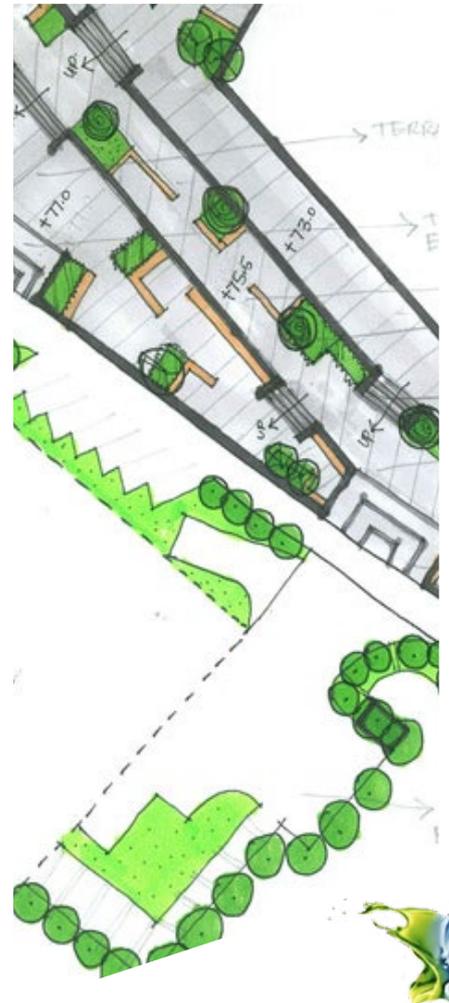
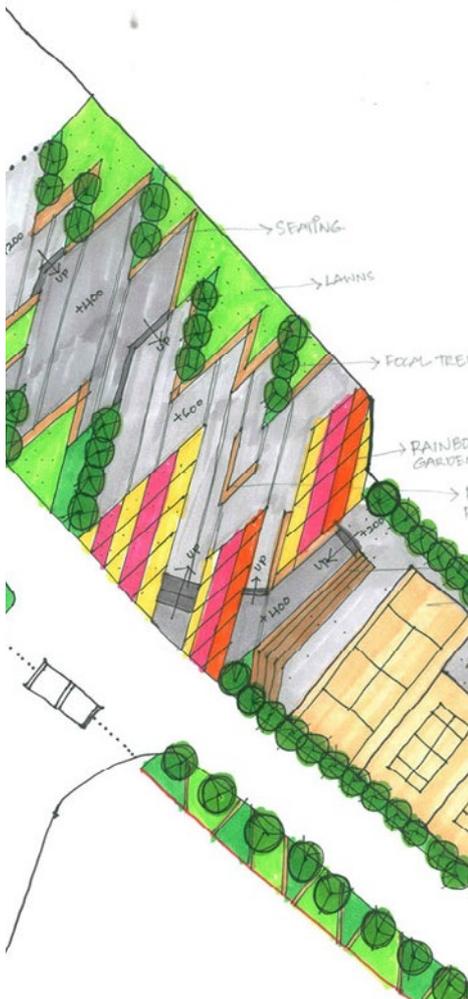


Global and Vivekananda Engineering

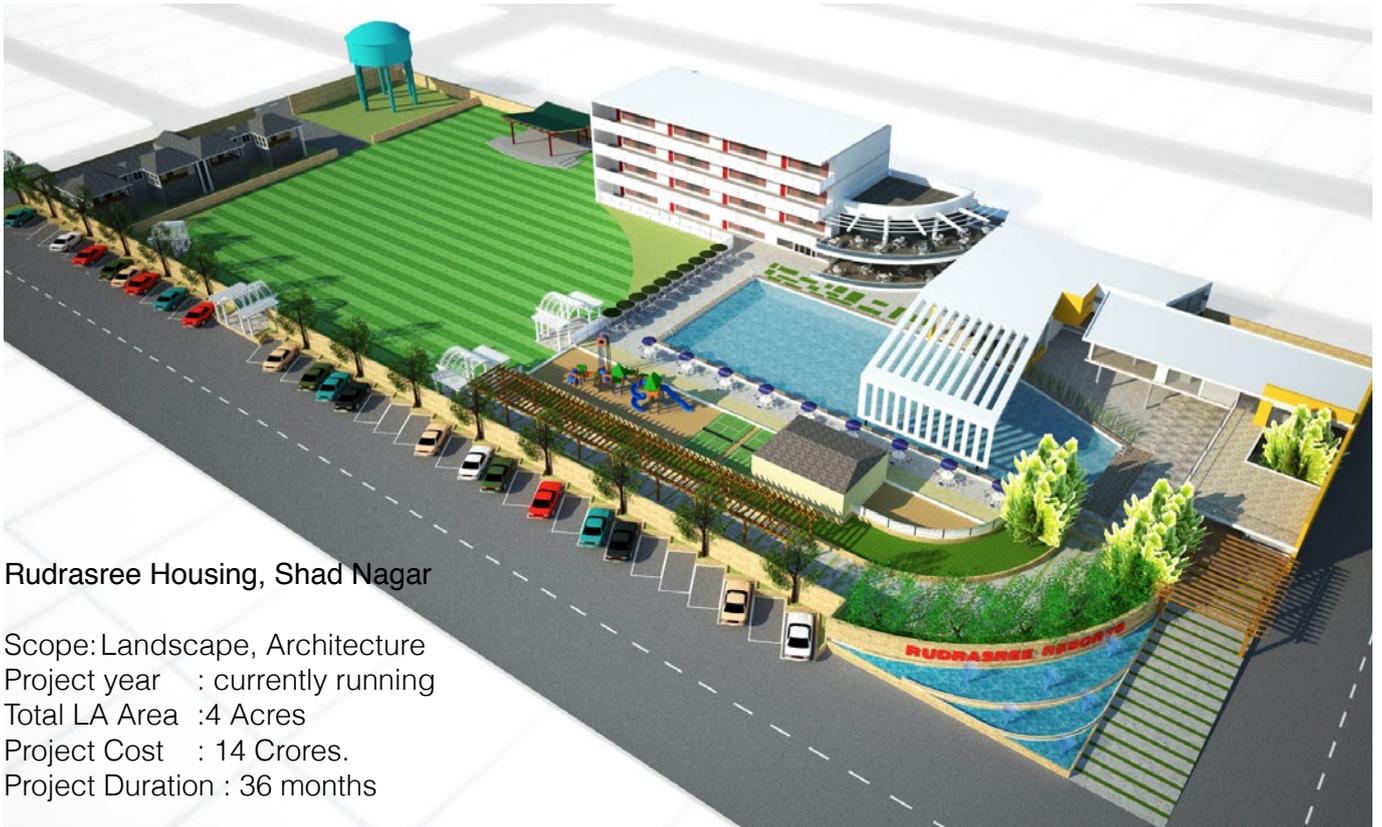
Scope: Landscape, Architecture
 Project year : currently running
 Total LA Area :6 Acres
 Project Cost :-
 Project Duration : 36 months

Orient cement Pvt Ltd.

Scope: Landscape, Architecture
 Project year : currently running
 Total LA Area :100 Acres
 Project Cost :-
 Project Duration :-



COMMERCIAL LANDSCAPE



Rudrasree Housing, Shad Nagar

Scope: Landscape, Architecture
Project year : currently running
Total LA Area : 4 Acres
Project Cost : 14 Crores.
Project Duration : 36 months



RV Nirman, Madhapur

Scope: Landscape
Project year : 2012-2013
Total LA Area : 10,350 sft.
Project Cost : 12 Lacs
Project Duration : 6 months





Thank you for your patience