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# TIMELESS FLUX

## IMBIBING LAND RITUALS INTO AN EDUCATIONAL CAMPUS

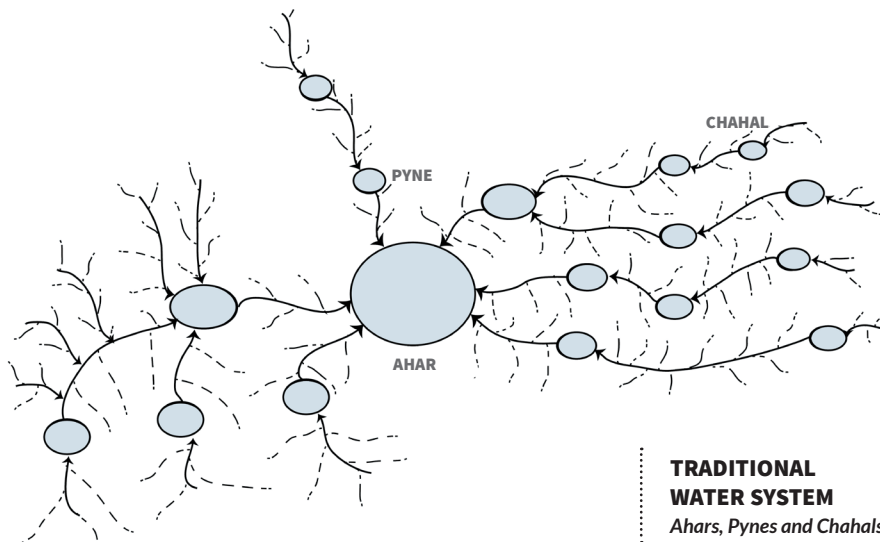
Taking inspiration from the regional landscape structure, especially the water conservation systems, the educational campus in the arid region attempts to create a framework of nature conservation – water and vegetation – integrated with its design program.



Nalanda University lies in a rich ecosystem developed on the Gangetic flood plains and dominated by hot-humid climate, alluvial geology, rich clayey soils, high groundwater table, flat terrain and subtropical dry deciduous forests. Institutions in this region have a history of successful co-existential relationships with the surrounding human and the natural environment, which have resulted in a vibrant cultural heritage. Human society is overwhelmingly agrarian with a long history of smaller administrative units supporting a group of villages. The landscape master plan intends to act as a steward to its region of influence through a comprehensive program encompassing ecology, community and culture.

The site is an agricultural land on the outskirts of the town of Rajgir. One can observe centuries of agricultural rituals moulding the site's structure – a flood-prone area consisting of an intricate water system of “*ahars*, *pynes* and *chahals*” that move water as well as percolate it. The University was very clear that the soul of Nalanda must not be lost. Hence, it was decided early on to work closely with the datum line and complement the regional landscape structure.

Nalanda University is imagined as a set of great mudplinth arising out of a fluctuating water body in a fluid terrain, carved to create introspective spaces and clustered to generate dialogue. This great vista is set in a rustic traditional landscape generated by large swathes of agrarian landscape, woodlands as well as low-lying areas that seem to blend into one another seamlessly; and the entire landscape is overlaid with a series of man-made swales that direct rainwater to embankment reservoirs. As one enters the



University, one travels through densely shaded plantations of mangoes, sal and dense bamboo clusters, with water lilies, birds and small animals abounding in shallow waterholes formed in the rainwater swales, crossing them through rough wooden bridges, stepping over stone paths raised over the viscous soils. One treads with care over these obstacles, while being deeply immersed in nature before reaching the University.

The masterplan framework developed is simple yet spatially powerful. Kamal Sagar – a square water body, 400 metres in each direction, is the heart of the campus, while academic buildings, recreational area, student hostels and faculty cum staff housing are arranged around it. Kamal Sagar acts as the central congregation area, with the library, amphitheatre, meeting spaces as well as civic amenities at its centre and periphery. Kamal Sagar also holds and supplies the annual water requirement of the campus. The centrally situated water source strongly imprints awareness of resource dynamics and its management into the young minds being moulded here.

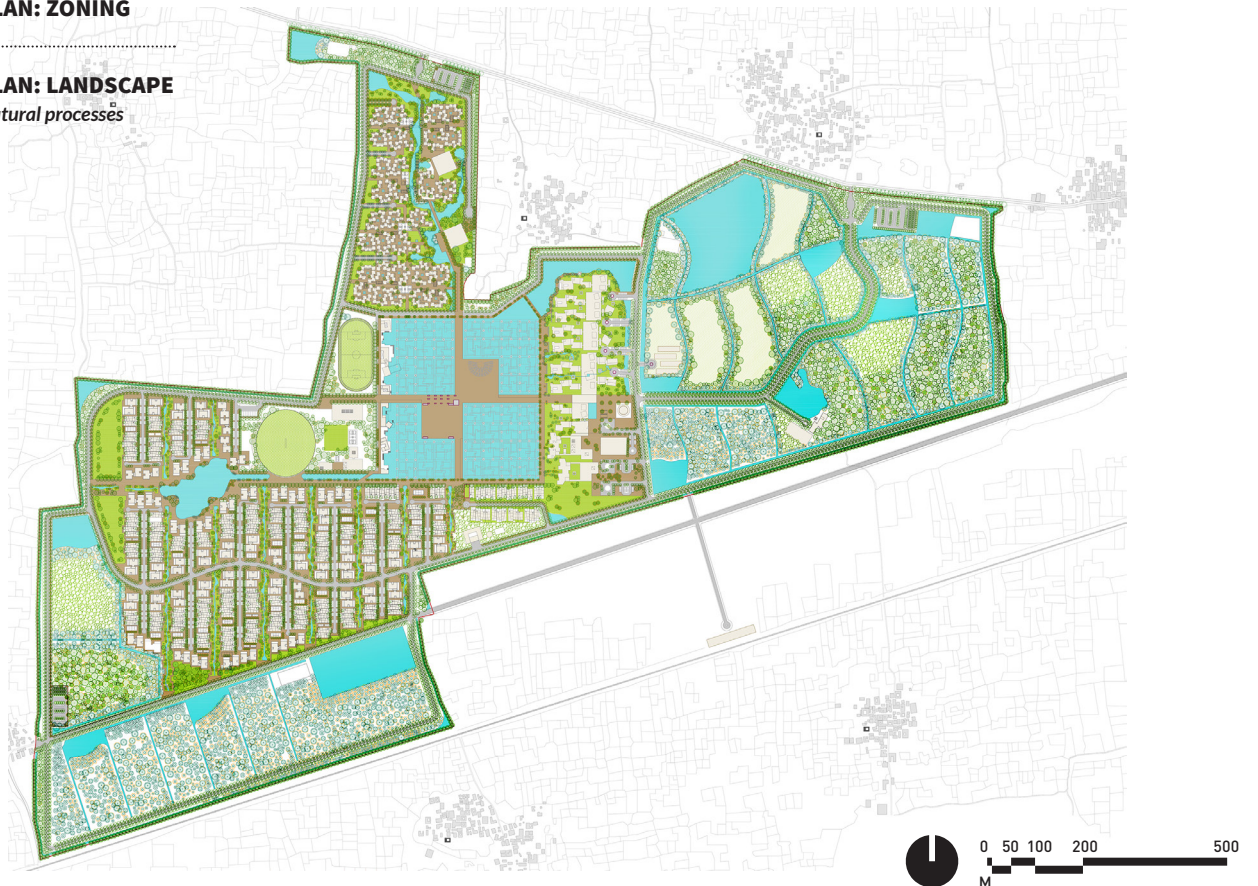
The entire built campus is restricted to thirty per cent of the site area, the remaining being given to ecosystem conservation. The prime element of landscape infrastructure is the *ahar-pyne-chahal* system, whose integration with regional networks shall ensure water security leading to a productive ecosystem. *Ahars* are deep ponds or embanked retention areas, *pynes* are channels that connect the *ahars* and *chahals* are smaller depressions that hold water along the *pynes*. This system channels, collects, stores and recharges rainwater for subsequent use throughout the year. It is reinforced with edge plantation for shade, wind-break and micro-climate normalization as well as fostering small wildlife habitats and corridors along water channels. The flexibility of the system allows water bodies to transform from ponds and canals in the monsoon into wetlands in summer.

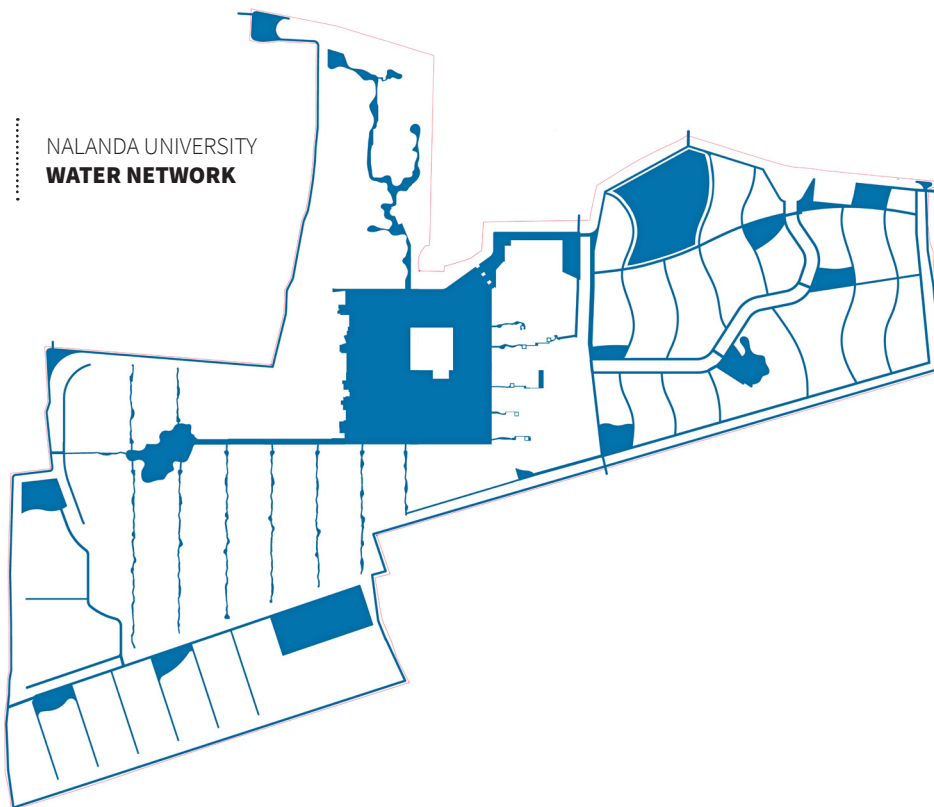




NALANDA UNIVERSITY  
**MASTER PLAN: ZONING**

**MASTER PLAN: LANDSCAPE**  
*Integrating natural processes*





Runoff from rooftops shall be stored in underground tanks for drinking purpose, while runoff from all other surfaces in built areas shall assimilate in Kamal Sagar and its balancing tanks via a system of open and piped drains. Runoff in the remaining part of the site shall be assimilated in *ahars* for storage and percolation. Water from Kamal Sagar and balancing tanks shall be used for domestic demands, while water in *ahars* shall be used for irrigating plantation and experimental agriculture farms. Wastewater from domestic uses shall be treated via a decentralized wastewater treatment system [DEWATS] and used for irrigation of intense landscape around built areas. The system aims to establish an annual ritual for de-silting, cleaning, storage and judicious use of water.

Building upon this water-intensive structure, the eastern campus is proposed to be a mix of woodlands, orchards and experimental farms. An outreach centre in the middle of this area shall promote local knowledge documentation and dissemination combined with contemporary technologies. The landscape is proposed to be used as a live laboratory to document, experiment and enhance local natural rhythms. The laboratory will be used by students and researchers to explore suitable contemporary agrarian processes for the region.







## VIEW

View from Student Hostels towards Kamal Sagar  
 Courtesy: Vastu-Shilpa Consultants

Presently, the water infrastructure of the site is established and being tested in each monsoon. While the expansive services infrastructure and building construction progresses, the eastern part of the campus is being planted intensively to develop the woodlands and orchards. One hopes that the landscape structure will have achieved resilience and established itself by the time the campus comes to life.

## PROJECT SNAPSHOT

PROJECT: Master Plan for Nalanda University

LOCATION: Rajgir, Bihar

SITE AREA: 455 acres

CLIENT: Nalanda University

PRINCIPAL ARCHITECT AND MASTER PLANNER: Vastu-Shilpa Consultants, Ahmedabad

MASTER PLAN LANDSCAPE ARCHITECT: Earthscapes Consultancy Pvt. Ltd., Ahmedabad

DETAIL DESIGN LANDSCAPE ARCHITECT: M/s Prabhakar B Bhagwat, Ahmedabad

STRUCTURAL CONSULTANT: Vinod Shah Consulting Engineers Pvt. Ltd., Ahmedabad

MASTER PLAN MEPF CONSULTANT: dbHMS, Noida

PROJECT DURATION: 2012–Ongoing

Drawings and images courtesy of  
 Earthscapes Consultancy Pvt. Ltd.

