A STORY OF A RIVERINE CULTURAL LANDSCAPE OF ASUD BAUG IN KONKAN

Country /City	India /Pune
University / School	Dr. B.N. College of Architecture , University of Pune
Academic year	2021-2023
Title of the project	Living Wisdom : Conserving Vernacular Agrarian Riverine Cultural Landscape of Asud Baug , Konkan, Maharashtra
Authors	Dr. Swati Sahasrabudhe, Anupama Khatavkar, Neha Adkar, Kshitija Kolhatkar, F.Y.M.Arch Students
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Title of the course	Masters in Landscape Architecture			
Academic year	2021-2023			
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Written statement, short description of the project in English, no more than 250 words

a small village in 'Ratnagiri', Kokan, Maharashtra, India, aims to in context, conserving the vocabulary of design and planning	fragile landscape ecosystem' wrt 'Asud' as a representative example of propose rural landscape conservation and planning policies, design g and answer the question of 'what should be the role of landscape evel.	
The intent of this study is to analyze such unique , fragile riv 'preserved traditional setting', involvement of communities in sha economics and its relation to traditional practices; demands of the	ver ecosystems, setting of these cultural landscapes, understand the aping, these land parcels as a part of daily life, cultivated landscapes, he future from the land etc; by studying example of 'Asud' as one such	
Nestling into the 'Sahyadris', spread along a seasonal westward unfolds a story of 'Asud' – a small village plentiful in ecology geomorphology and a legacy in itself.	12th International Bien	
studio intends to find answers to the following : Responding to the 'Indianness' of such settings in terms of design and planning		Barcelona
2Future sustainability of the landuse of these villages		
	layer and new vocabulary, design and planning approach.	SCHOO
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3Role of Landscape Architecture at macro level, contemporary.	layer and new vocabulary, design and planning approach	SCHO
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DOL PRIZE

TRADITIONAL IRRIGATION SYSTEM : PAAT (Liviing Wisdom)

Asud has a very old irrigation system which is now used to irrigate supari plantation. This system is purely based on gravitational force.

•Typically in Asud diversions can be seen for the irrigation purpose. It means the river on the highest elevation is diverted and then the water is collected by building 'kachha bandhara' for further collection and divertion of water.

•This collected water further goes to the Supari Baugs through channels which the local resident call the PAAT.

•These channels are then further divided into sub channels which flows throughout the bunds from the Baugs.

•There are total 45 Inlets present to the main channel / PAAT.

•It is stated that this PAAT System is in use from 400+ years. Making it An Irreplicable part of Asud's Cultural Tradition

•Asud is situated on such topography which makes it the most relevant habitat for Supari Cultivation.

PROFILE AT A

Maatiche bandhare

PROFILE AT B

PAAT

TOPOGRAPHY

SUPARI

•Supari plant needs two things to flourish -slopes and lots of water to grow, which are naturally present In Asud. • Supari baugs are owned by residents from Dabke wadi.

ALL CHANNELS RUN FROM EAST TO WEST





2.Split, Distribution 3.vOverflow

The method of supply and distribution

1. Diversion



Origin of Paat Diverted water

channel from origin 2. Split and Distribution



Splitting the primary Splitting the secondarychannels channels in secondary channel in tertiary channel 3. Overflow



Inlet act as connecting point between primary channel to secondary channel Supari Baug (Modem)





SPATIAL ORGANISATIOTION (micro level)

Traditional settlement is a result of logical understanding of topography by earlier generations and hamlets evolved on the basis of resource availability and occupation



Dabake wadi – linear cluster form on slope and facing each other





- Shared open space of clusterDeveloped across the contour,
- Developed across the contour, forms linear stepped form of cluster.
- Bandre wadi is developed on flatter land along the river Bhat –khindi (Asav) newly constructed houses, new construction materials are introduced here.



Bandre wadi – linear cluster form on very gentle slope and vegetation at periphery.







Tambadicha kond – random cluster form,

On steep slope so, closely placed entr Covest pt





- Visual association of built and natural feature
- Development on higher elevation created prospect area

STAKEHOLDERS

 Divided into two terrains upper and lower due to highway



V7: Sustainable living practices like life cycle of supari, garden to plate, use of local material.



12: Waste management increased due to tourism related acitvities causing increase in non-degradable waste.



V2: Traditional and functional paat system is intact



V5: Architecture and landscape contributes to the intact microclimate within the Wadi.



13: Dependency on nearby cities for basic grocery needs.



V3: Balanced riverine ecosystem is maintained due to dependency on the resource.



V6: Provides local employment through tourist activities, cottage industries and cultivate baugs.



V8: Seasonal garden to plate concept with species like banana, alu, fanas, jaam, allspice, nutmeg, black pepper etc grown in home gardens along with flowering species like aboli, jaswand, alamanda, ixora.





unison.

The vernacular cultivated landscapes in Asud Baug, along the river 'Asav' in Konkan, unfold many layers. It is a continuous process where man and nature evolve in tandem with each other, supporting, unifying, and enhancing the experience of living, resulting in the traditional living wisdom of settlements which is still operational. The interdependency of communities and their mutual understanding defines the integrity and authenticity of Asud's cultural landscapes. Living wisdom is in a cultural continuum with the pressures of the modern concept of 'development'.

Walking along the 'river Asav', seeing the change in the flora and fauna diversity, makes one realize how nature has its take on everything man has done. Both sides of the bank have different characteristics in terms of vegetation. One is moist deciduous whereas the other is dry deciduous. Overall, Asud and its traditional connections are rooted in nature. Thus, nature and people share a symbiotic relationship. The field ecology helped acquaint one with identifying the flora and fauna species and their botanical names.

It is crucial to understand the hierarchy (primary, secondary, and tertiary) of stakeholders, both human and non-human, in order to identify the user groups and their needs. This study helped in the proposal framework and strategies. The intangible aspects and ecosystem services of vernacular landscapes are the driving force behind **sustainable** living practices. Based on this, one can infer that synergy exists among communities in such a setting.

By observing and analyzing the significant landscape characteristics and combining these stages of work, one can infer the **interdependencies** between human interventions, natural processes, and their positive and negative impacts. In the entire process, the role of a landscape architect is to bridge gaps between ecology and economy through a socio-cultural approach bringing all in