

**IDENTIFYING AND TRANSLATING THE STUDY OF  
FORM,PATTERN AND MATERIAL OF HOUSING  
OF  
*Sunderban Village , West Bengal***



THE INTERESTING ATCHALA (EIGHT-ROOF) AND CHOUSHALA (FOUR - ROOF) FORM BLENDED WITH NATURAL MATERIAL OF BAMBOO,STRAW,ETC...ABUNDANTLY AVAILABLE IN THE REGION



CROSS BRACING IN BAMBOO NOT ONLY PROVIDES STRUCTURAL STABILITY AND WIND RESISTANCE BUT CAN BE EXPLOITED FOR AESTHETICS TOO....



ENHANCING THE PRACTICAL USE OF NATURAL MATERIALS FOR LONG TERM AND SAFE BUILDING SOLUTIONS BY EMPLOYING TRADITIONAL METHODS FOR TREATMENT OF BAMBOO AND PROVIDING STRUCTURAL STRENGTH.....

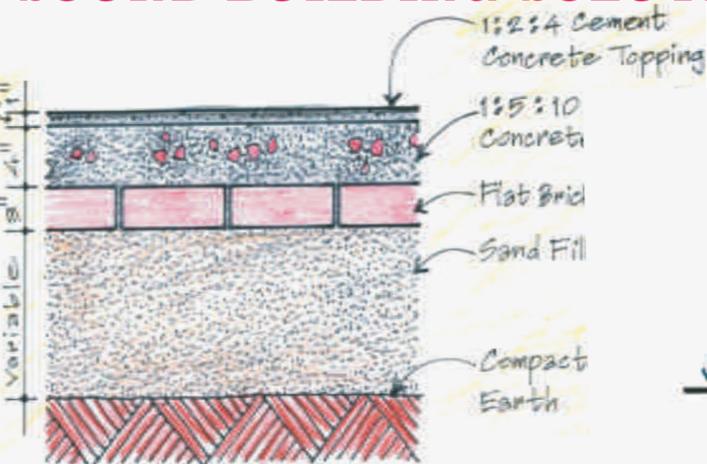
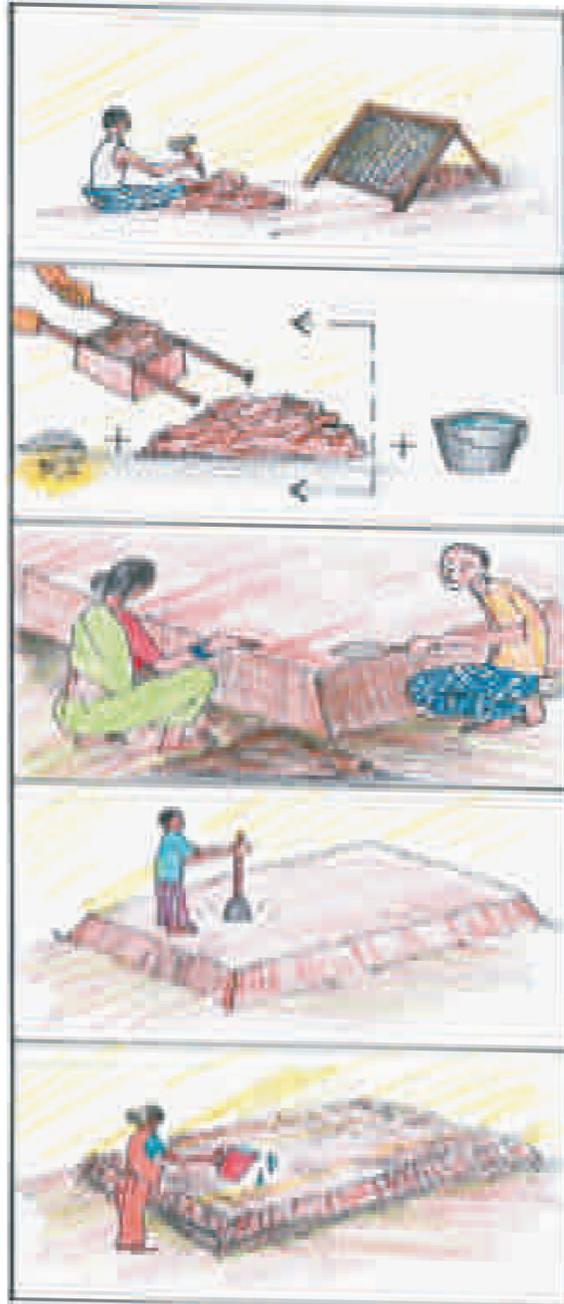
NOW AFTER IDENTIFYING AND STUDYING THE VARIOUS ASPECTS OF FORM,MATERIAL AND CONSTRUCTIONAL PATTERNS OF HOUSING IN THE VILLAGE OF SUNDERBAN.....MY NEXT TASK IS TO EXTEND MY RESEARCH TO EXTEND AND TRANSLATE THE IDEAS TO THE MODERN CONTEXT APTLY....IN THIS REGARD MY WORK INCLUDES.....

1. EXTENDING THE KNOWLEDGE OF THE BUILDING TRENDS OF SUNDERBAN TO GIVE AN APPROPRIATE BUILDING SOLUTION FOR HOUSING IN FLOOD PRONE AREAS OF NOT ONLY SUNDERBAN BUT ALSO VARIOUS PARTS OF BENGAL....WHICH IS AN EMERGING ISSUE IN THE RURAL PARTS OF BENGAL....
2. DUE TO THE FAST DEPLETION OF TIMBER AND MASSIVE DEFORESTATION... .EXPLORING BAMBOO AS A BUILDING MATERIAL KEEPING IN MIND ITS ABUNDANT AVAILABILITY AND ITS AESTHETIC AND STRUCTURAL POTENTIAL
3. EXPLORING THE DIFFERENT POSSIBILITIES OF THE INTERESTING ATCHALA AND CHOUSHALA FORMS IDENTIFIED...AND PLACING THEM IN DIFFERENT CONTEXTS LIKE BUILDING A TREE HOUSE, EXTENSION OF HERITAGE HOTELS ,KIOSKS IN THE BEACHES,BEACH HOUSE,ETC....

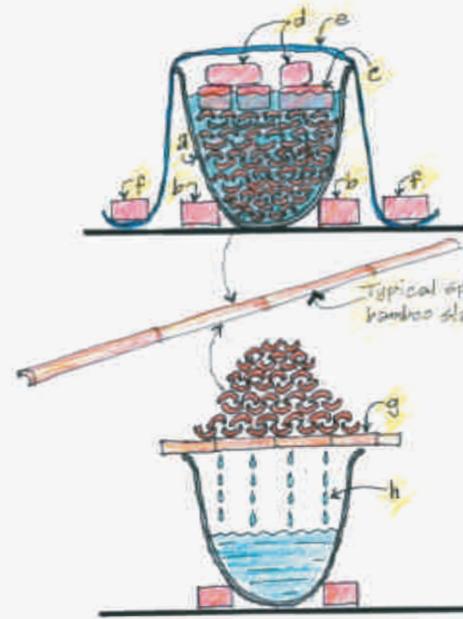
MY REFERENCES: 1.ASIAN DISASTER PREPAREDNESS CENTRE'S WORK ON DESIGN AND CONSTRUCTION OF HOUSING FOR FLOOD PRONE RURAL AREAS OF BANGLADESH.  
2.VERNACULAR ARCHITECTURE OF WEST BENGAL BY AUTHORSTREAM.

*Translating Traditions.*

# VARIOUS TRADITIONAL TECHNIQUES AND EXTENDING UNIFYING THEM TO MODERN CONTEXT TO GIVE A SOUND BUILDING SOLUTION IN FLOOD PRONE AREAS....



**CEMENT CONCRETE FLOOR DETAIL WITH CEMENT CONCRETE PLINTH**

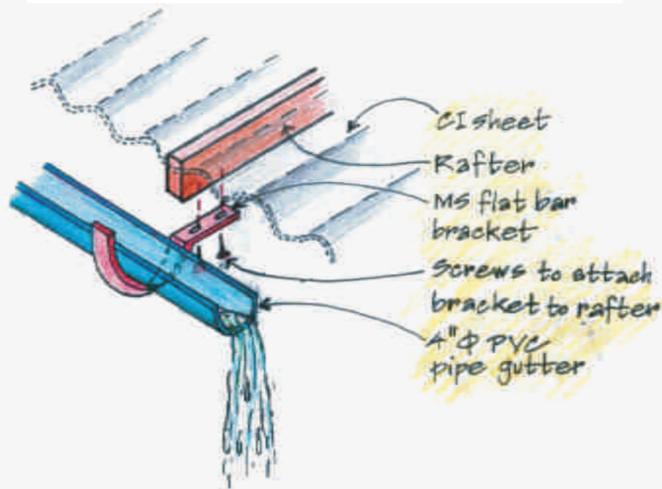


**CROSS-SECTION OF A TROUGH**

- a. Trough with split bamboo slats
- b. Stones to keep trough upright
- c. Level of the preservative
- d. Bricks to keep the bamboo slats down
- e. Plastic cover against rain
- f. Bricks to keep e in place

**DRAINING THE BAMBOO**

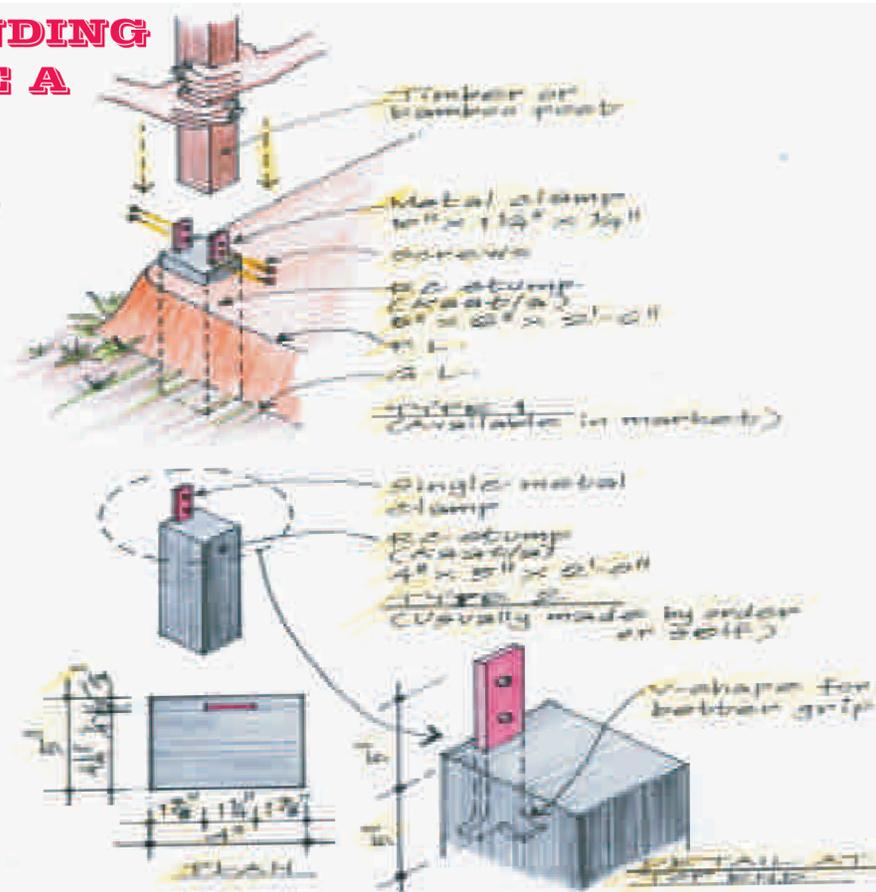
- g. Bamboo slats
- h. Dripping the preservative



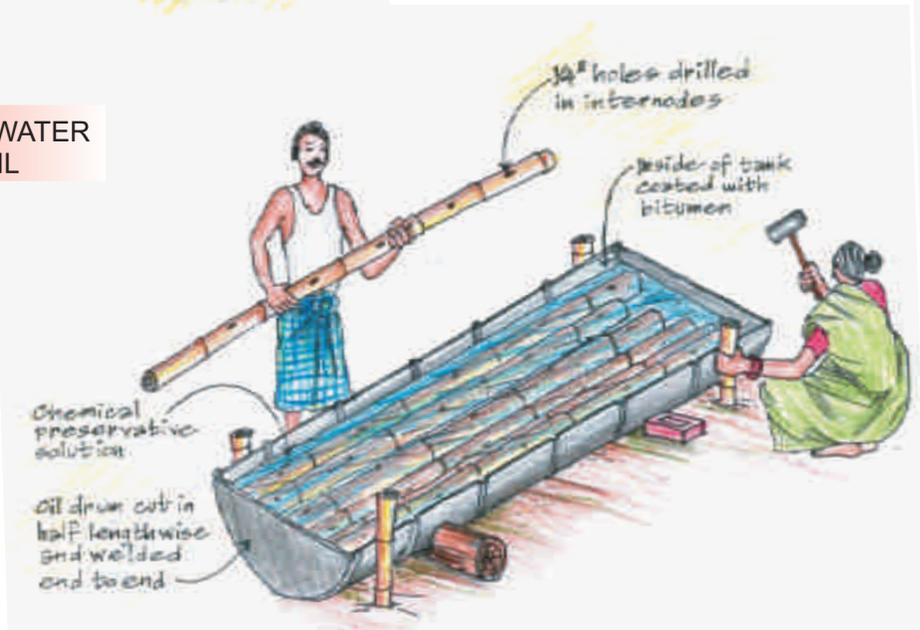
**CREATING RAINWATER GUTTERS :DETAIL**

**CHEMICAL TREATMENT OF BAMBOO FOR PRESERVATION**

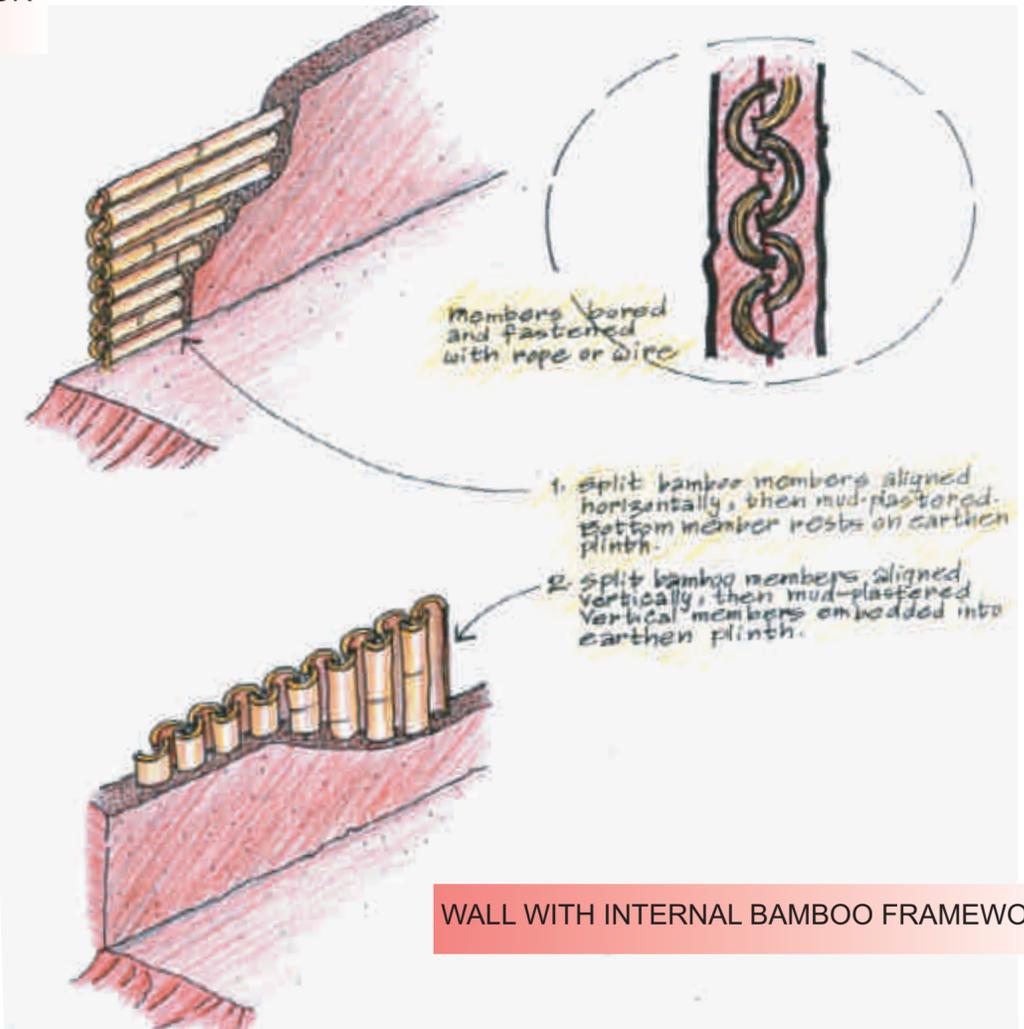
**CONCRETE STUMP FOR PROTECTING LOWER END OF BAMBOO POST**



**PREPARATION OF THE PLINTH : TRADITIONAL MANUAL METHOD RELEVANT TO MODERN CONTEXT ALSO...**

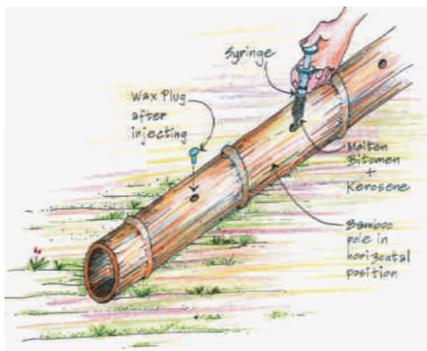


**DIP DIFFUSION TREATMENT FOR CHEMICAL PRESERVATION OF BAMBOO**

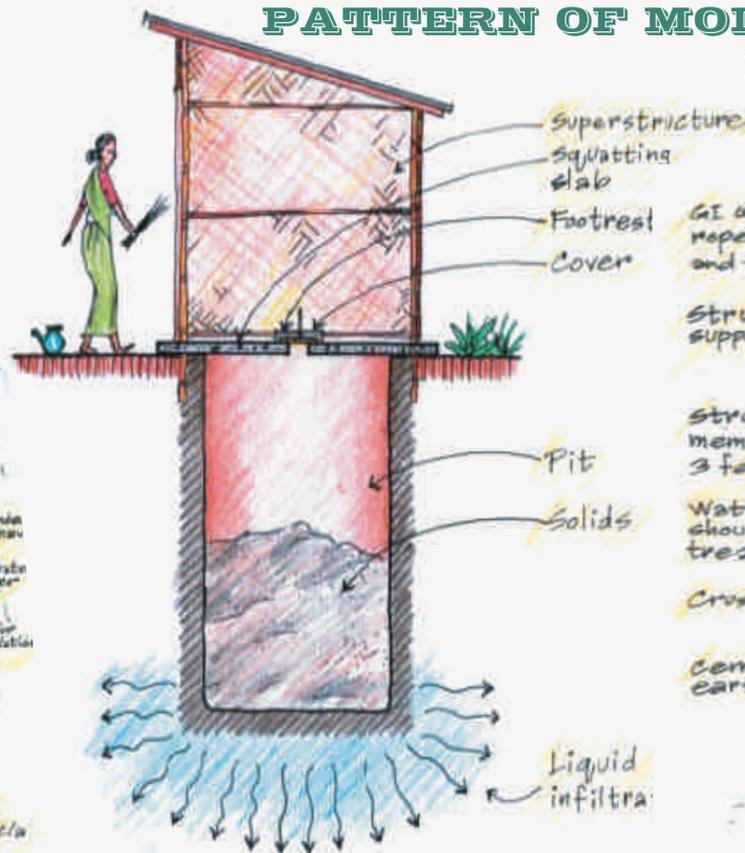


**WALL WITH INTERNAL BAMBOO FRAMEWORK**

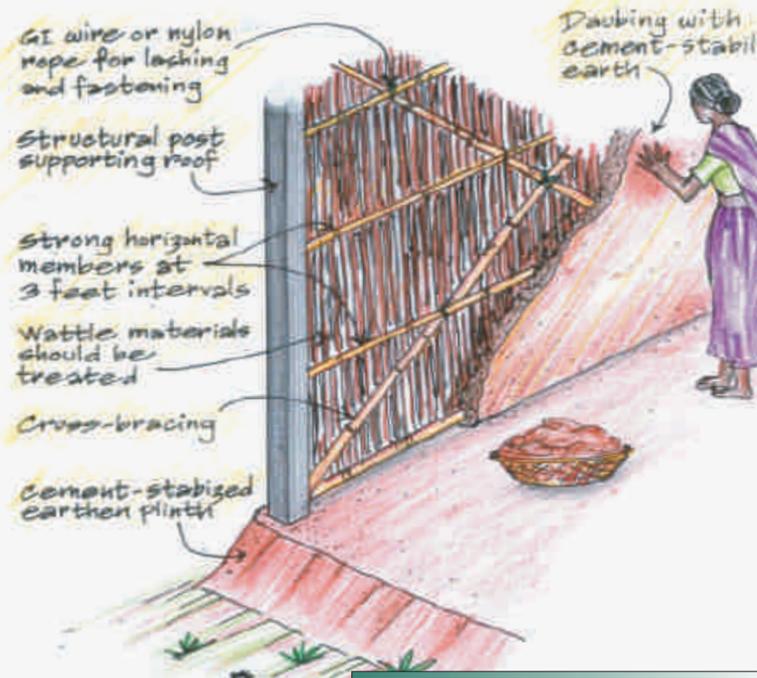
**TRANSLATING THE UNDERSTANDING ACHIEVED THROUGH THE STUDY TO PROPOSE A FORM AND PATTERN OF MODERN AND FUTURE BUILDING PRACTICE IN THE AREA...**



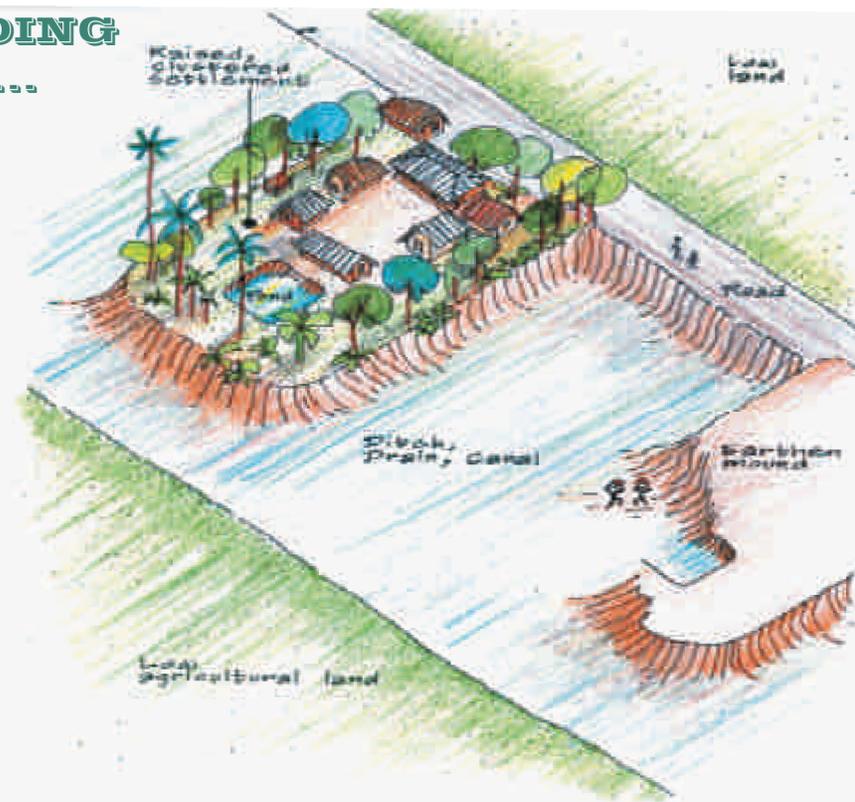
**INTERNODAL INJECTION METHOD OF PRESEVATION**



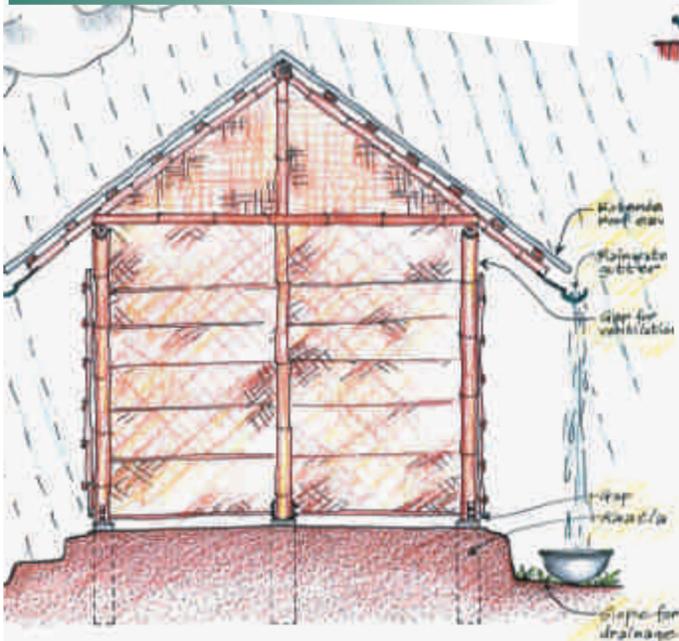
**PROPOSED IMPROVED PIT LATRINE SYSTEM**



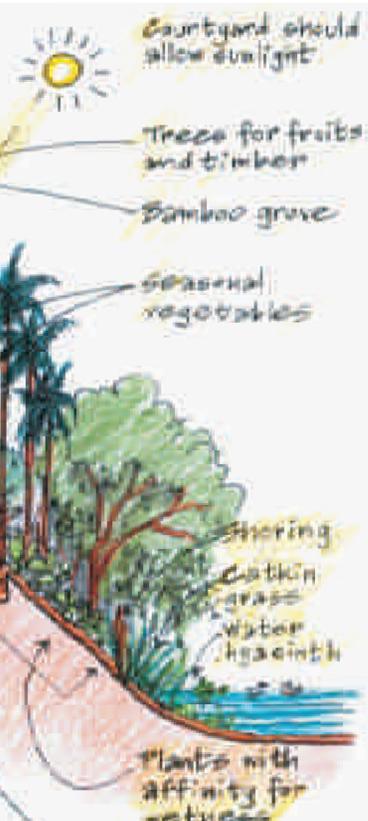
**INTERNAL FRAMEWORK**



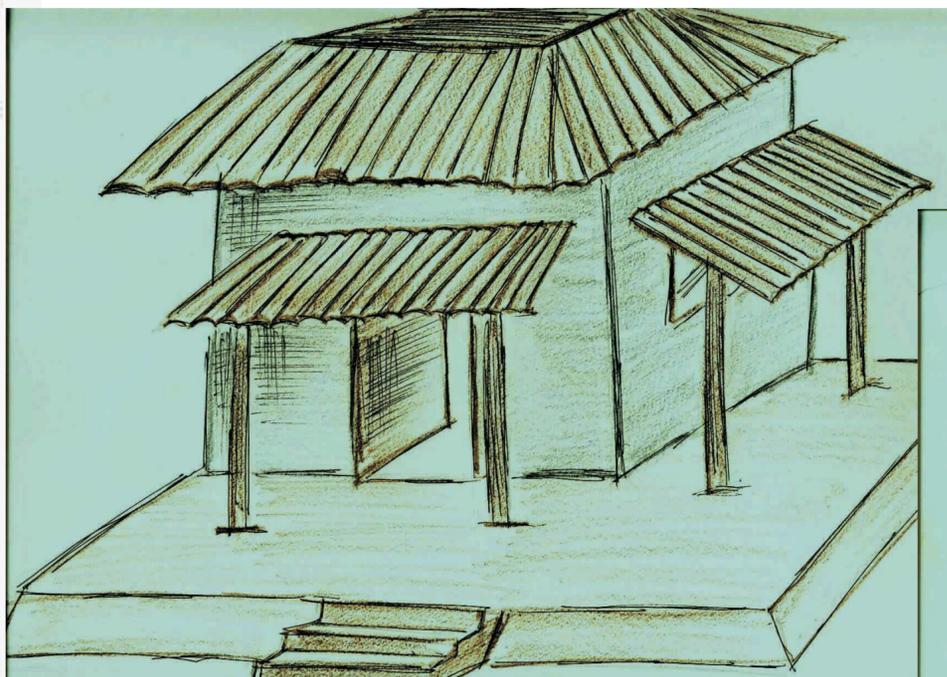
**PATTERN OF BUILDING HOMESTEAD ON MOUND**



**CLIMATE RESPONSIVE FORM AND INTEGRATION OF STRUCTURAL ELEMENTS**

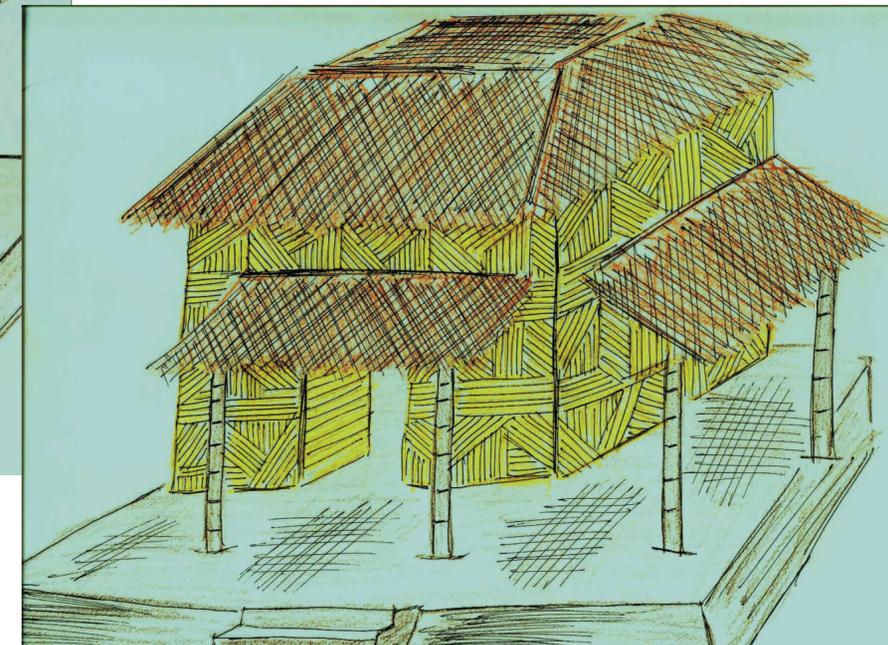


**PROPOSED LANDSCAPING IN FLOOD PRONE AREA**



**PROPOSED FORM WITH URBAN FINISH TO THE HOUSE**

**PROPOSED FORM FOR THE HOUSING.....**



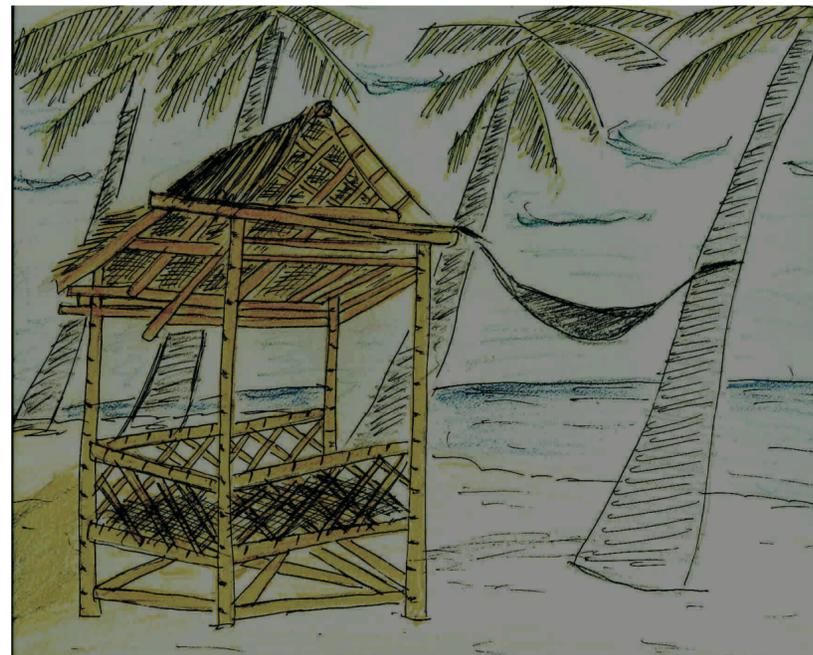
**PROPOSED FORM WITH TRADITIONAL TOUCH TO THE HOUSE**

*Translating Traditions.....*

**VARIOUS MANIFESTATIONS OF THE RECOGNIZED FORM AND MATERIAL IN COMPLETELY DIFFERENT CONTECT TO EXPLORE THE VIVID POSSIBILITIES....**



TRADITIONAL LOOKING URBAN RESORT WHERE THE ROOF EAVES CAN BE EXTENDED TO FORM A FUNCTIONAL SPACE FOR RELAXATION FOR ENJOYING THE EXTENAL VIEW.... A TREND THAT CAN BE ADOPTED IN HERITAGE HOTELS,ETC...



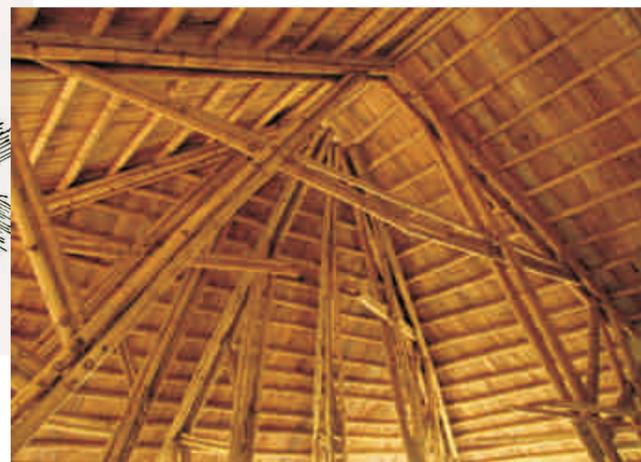
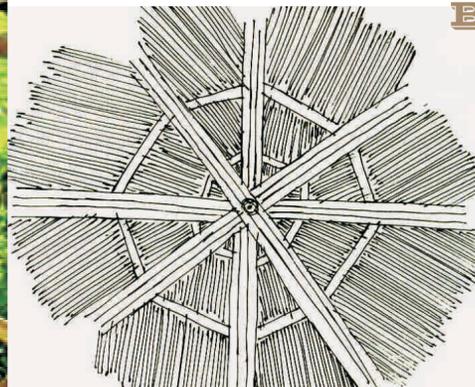
A KIOSK IN A SAND BEACH OF A COAST...GIVES A REFRESHING TRADITIONAL LOOK AND ADDS TO THE AESTHETIC SENSE OF THE PLACE....



A TREE HOUSE ...BLENDS PERFECTLY WITH THE SURROUNDINGS IN RESPECT OF FORM AND MATERIALS...SUSTAINABLE IN ALL RESPECTS....BAMBOO BEING A MOST APPROPRIATECHOICE OF MATERIAL....



**IDENTIFYING AND TRANSLATING THE AESTHETIC AND STRUCTURAL POTENTIAL OF BAMBOO CROSS BRACING**



AN INSTANCE OF USE OF THE CROSS BRACING IN BAMBOO FOR LOBBY/ENTRANCE/PATHWAY/BRIDGE ETC....

TO CREATE MAGICAL INTERIORS WITH A TRADITIONAL LOOK .....



PLAY OF LIGHT AND THE EXCEPTIONAL POTENTIAL TO BLEND WITH OTHER MATERIALS ....

*Translating Traditions.....*