

BAMBOO WORKSHOP for Prefab Bamboo Structures, Nagpur, INDIA

THE CONTEXT - The Bamboo Workshop for Prefab Bamboo Structures, in Nagpur, India, is meant for Technology demonstration and dissemination of Hybrid Structures for both short and large span, in Central India.

THE BUILT SPACE consists of Entrance Porch, in prefab bamboo structure as an example for residential structures.
And the Main Structure showcases the Prefab Bamboo capabilities in large spans structures upto 7000 mm, for Industrial applications.

THE STRUCTURE –a **Hybrid Structure**, in flyash bricks upto lintel level (2100 mm), and thereafter in prefab bamboo structure (2100 mm high), using bamboo culms (*Bambusa bambos*, 75-80 mm dia.) for columns and beams and for bow beams (bamboo culms - *Dendrocalamus strictus*, 50 mm dia.).
The bamboo used are treated against pesticides and weathering effects.

THE FOUNDATION – In flyash brick wall. RCC damp proof course to counter seismic movements.

COLUMNS- 480x480 mm in flyash brick in cement mortar (upto lintel level 2100 mm). Thereafter prefab bamboo columns 480x480 mm, 2100 mm high.

THE WALLS - Front facade in Hydraform flyash interlocking blocks in dry masonry.
Side walls-150 mm thk. in flyash brick in mud mortar.
Thereafter wall in bamboo mat board 2100 mm high.

THE ROOF –The bamboo bow beam is the centre piece of the prefab construction.
(Designed and Developed by - Prof. Dr. Sudhakar, IIT Delhi, India)
Twin bamboo purlins over the bow beam 600 mm c/c to support the bamboo mat roofing sheet.

GLOBAL APPROPRIATENESS – Hybrid structures in bamboo and other green building construction materials has global application both for short and large span structures, for Housing and Industrial applications.

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