



Microwave Bamboo Processing System - VRIKSHA

in collaboration with IWST, Bengaluru



FEATURES

- Bending/ Straightening / Drying of green Bamboos
- Uniform heating:-No Hotspot
- PLC based control system with HMI Display
- Precise Temperature and power control



Processed Bamboo

A microwave bamboo processing system generally refers to the use of microwave technology for various applications in treating or processing bamboo



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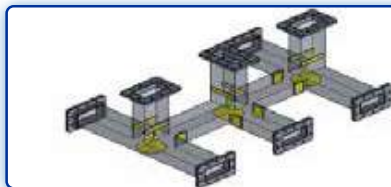
SPECIFICATIONS

Frequency	2.450MHz	Applicator	Multi mode Rectangular Cavity
Out Power	5kW	Dimensions of applicator	292.1mm*170mm*1150mm
Mode	CW	Microwave Leakage	<1mW at 1meter.

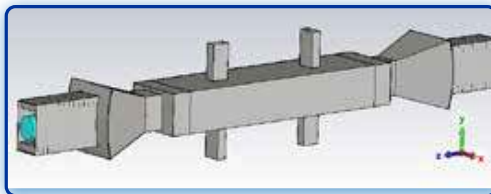
INDIGENOUSLY DEVELOPED SYSTEM



3D View of Full System



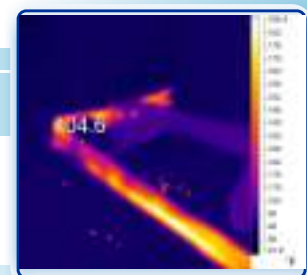
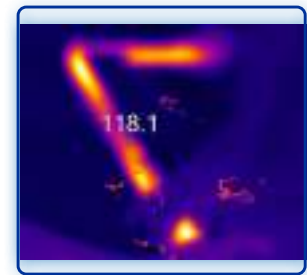
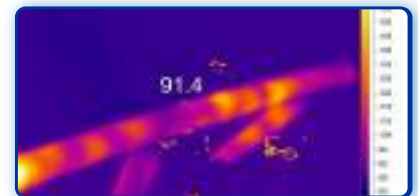
Waveguide 1:4
power divider



4 dord Waveguide Applicator



Hybrid Absorber



Temperature profile of
processed bamboo

Applications

- Forest Industries
- Agriculture Industries
- Food Processing
- Parma Industries

System USP

- First in system for bamboo processing
- Inline processing of bamboo
- Uniform distribution of heat