

# SYNERGIC WOOD TECHNOLOGY

TECHNOLOGY AND MACHINERY PROVIDERS FOR  
MANUFACTURING OF CRUSHED BAMBOO PLY AND EDGE  
GLUED PLY



## CRUSHED BAMBOO BOARDS (CBB) PATENTED TECHNOLOGY

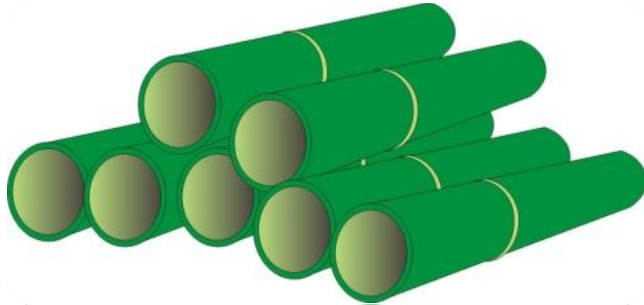
### WHY CRUSHED BAMBOO?

- LARGE SCALE UTILISATION OF BAMBOO UPTO 96%
- CAN BE CONVERTED TO BI-AXIALLY ORIENTED BOARDS LIKE PLYWOOD.
- CAN BE CONVERTED INTO ORIENTED MATERIAL LIKE WOOD.
- ANY SPECIES OF BAMBOO CAN BE USED.
- LEAST WASTAGE FROM BAMBOO TO BOARDS.

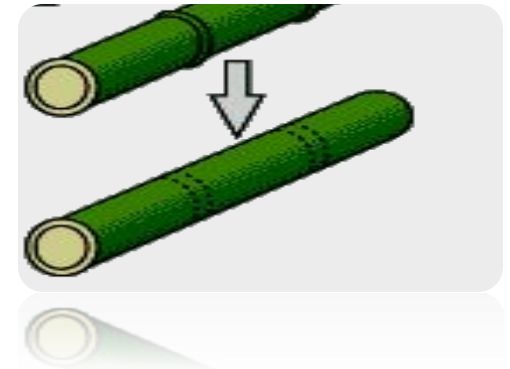
# Process: bamboo board

## 1: Cross Cutting

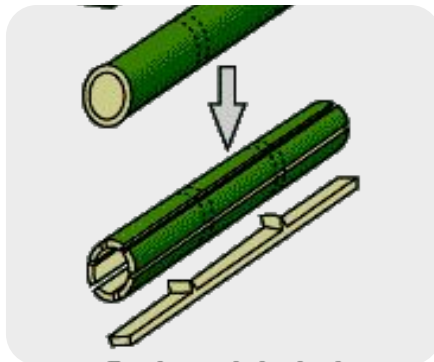
Longer sections into smaller



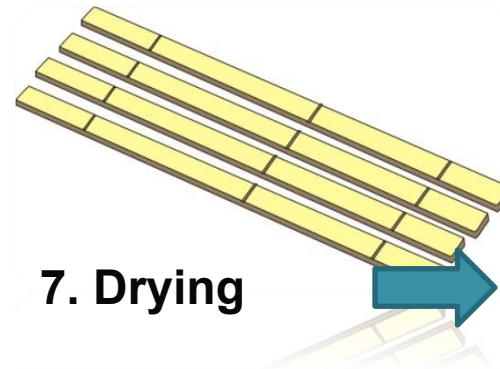
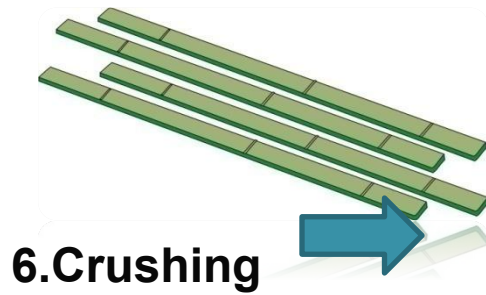
## 2: Removal of external nodes



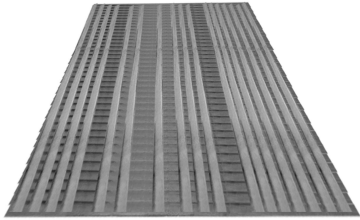
## 3: Split into two halves



# Process: Bamboo Board



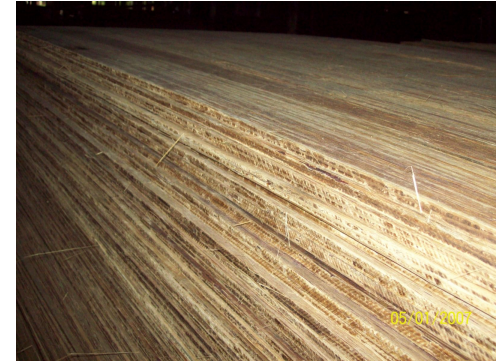
# Process: bamboo board



9. Mat Laying



10. Hot Press



Finished boards



11. Machining

Cutting, trimming  
sanding



Finished  
products



## Finished boards



## AFFORDABLE HOUSES FROM BAMBOO PLY



# HOUSES





## KITCHEN CABINETS WITH BAMBOO PLY LAMINATED



# Doors & Flush doors





## MANUFACTURING UNITS OPERATIONAL AT PRESENT

### CRUSHED BAMBOO PLY 8 x 4


- 1) BHAWANIPATNA – ODISHA
- 2) BARIPADA – ODISHA

### EDGE GLUED PLY BOARD 8 x 4

- 1) HIMACHAL PRADESH

## BASIC FIRST ROUND OF COMPARATIVE TEST REPORT OF CRUSHED BAMBOO BOARDS

SI No	TEST PARTICULARS		Crushed Bamboo boards	IS STD 710/1734 BWP Grade
1	Density	Kg/M3	0.836	0.7
2	Moisture Content	%	8.7	5 to 15
3	Water absorbtion by mass	%	10	< 5
4	<b>M O R</b>			
	Across the grain	N/mm2	116	> 30
	Along the grain	N/mm2	129	>50
5	<b>M O E</b>			
	Along the grain	N/mm2	7593	>7500
6	Screw holding Capacity	Kg	287	>275
7	nail Holding Capacity	Kg	145	>150
8	Tensile strength	Kg/cm2	793.33	> 845
9	<b>Glue shear strength</b>			
	Average Min ( N)	Kg	166.36	135
10	Adhesion of piles		excellent	knife test done



REQUEST OUR ARCHITECTS, FURNITURE  
MANUFACTURERS, INTERIOR DESIGNERS WHO ARE  
CALLED THE PRESENT DAY VISHWAKARMA TO TRY  
AND USE THIS PRODUCT MADE FROM INDIAN  
SPECIES AND INDIAN MACHINES

SIZES AVAILABLE ARE 8 x 4 BOARDS  
THICKNESS – 10 , 12 , 16, 18, 20 AND 22 MM

● THANK YOU