TIPA

SPECIES IDENTIFICATION

SCIENTIFIC NAME	*Tipuana tipu* (Benth.) O.Kuntze
FAMILY	LEG. PAPILIONOIDEAE
COMMERCIAL NAME	
OTHER NAMES	Tipu (Argentina), Tipa-branca (Brazil)
DISTRIBUTION AREA	Temperate humid forests, Departments of Tarija, Cochabamba, Chuquisaca and Santa Cruz
REGION AND FREQUENCY	

TREE DESCRIPTION

TREETOP	Round shaoe, Intense green foliage, composite leaves
TRUNK	Straight and cylindrical with commercial heights up to 30 m
BARK	Dark gray color. Cracked.

GENERAL CHARACTERISTICS

SAPWOOD COLOR	White yellowish to ligth brown	**HEARTHWOOD COLOR**	White yellowish to ligth brown
ODOR	Indistinct	**TASTE**	Indistinct
LUSTER		**GRAIN**	Straight
STRIPED		**TEXTURE**	

ANATOMIC DESCRIPTION

ANNUAL GROWTH RINGS			
Visibility		**Average Number**	
PORES			
Visibility	Visible at sight	**Porosity**	Semicircular
Type	Solitaries and radial multiple of 5	**Shape**	Open
PARENCHYMA			
Visibility	Visible at sight	**Quantity**	
Type	Paratraqueal with centric vessels		
RADIUS			
Visibility	With magnifying magnifying glass 10 x	**Contrast**	Present
Stratification	Present		

PHYSICAL PROPERTIES

MOISTURE CONTENT (GREEN LUMBER)		**%**
BASIC DENSITY	0,57	**g/cm3**
DENSITY (12% MOISTURE CONTENT)	0,7	**g/cm3**
RADIAL SHRINKAGE	5,1	**%**
TANGENTIAL SHRINKAGE	7,6	**%**
VOLUMETRIC SHRINKAGE	12,3	**%**
RATE T/R	1,5	

MECHANICAL RESISTANCE

MODULUS OF ELASTICITY	100	**1000 Kg/cm2**
MODULUS OF RUPTURE	923	**Kg/cm2**
COMPRESSION PARALELL TO GRAIN	376	**Kg/cm2**
QUARTEREDSAWED		**Kg/cm2**
LATERAL HARDNESS	696	**Kg**
IMPACT BENDING		**Kg-m**

TECHNNICAL CONDITIONS FOR PROCESSING

MACHINING	Easy machining . Good finishing.
PRESERVATION	Permeable
NATURAL DURABILITY	Durable
DRYING	

END USES

Carpentry	Plywood
Furniture	

Source: MDSP, FAO PAF-BOL, IBAMA, LPF "Información Técnica para el Procesamiento Industrial de 134 especies maderables de Bolivia". Serie Técnia XI. 2002. (Translated by Fernando Aguilar . Marketing - CADEFOR)