

Accession No. 333

IC No.: 410866

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Baijnathpur, Sarguja,
Chhattisgarh

Date of plantation: July-2002



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Spreading	25	Moisture (%)	66.43
2	Bark Nature	Rough	26	MRC (%)	65.173
3	Bark Colour	Dark brown	27	Stomata /mm ²	408.823
4	Phyllotaxy	Opposite	28	Stomata length (μm)	25.567
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	16.3
6	Leaf Shape	Ovate	30	Stomata pore length (μm)	15.14
7	Leaf Apex	Acute	31	Stomata pore width (μm)	5.097
8	Leaf Margin	Sinuate	32	Cuticle thickness(μm)	12.6
9	Young Leaf Colour	Moderate Copper Red	33	Upper epidermis thickness (μm)	18.943
10	Young Leaf midrib Colour	Green	34	Palisade thickness (μm)	101.2
11	Mature Leaf colour	Light Green	35	Parenchyma thickness (μm)	113.823
12	Young Leaf Pubescence	Moderate	36	Lower epidermis thickness (μm)	12.64
13	Number of Glands	2	37	No. of chloroplasts	8
14	Position of Glands	Alternate	38	Total thickness(μm)	345.097
15	Leaf Length (cm)	11.217	39	Palisade: Parenchyma	0.713
16	Leaf Width (cm)	3.7	40	Chlorophyll a (mg/g)	1.271
17	Petiole Length (cm)	0.817	41	Chlorophyll b (mg/g)	0.964
18	Leaf Length: petiole length	13.735	42	Chlorophyll a/b	1.318
19	Leaf Weight	3.21	43	total Chlorophyll (mg/g)	2.243
20	Petiole Weight	0.06	44	Phenol (μg/mg)	2.019
21	Leaf weight: Petiole Weight	53.679	45	Reducing sugar (μg/mg)	10.983
22	Lamina weight (gm)	3.15	46	Non-reducing sugar (μg/mg)	11.6
23	Laminar Index (%)	98.133	47	Proline (μg/g)	60.34
24	Internodal Distance(cm)	1.707	48	Protein (mg/g)	22.85