

Accession No. 511

IC No.: 560451

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Parampurva, Banda,
Uttar Pradesh

Date of plantation: June-2003



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Spreading	25	Moisture (%)	68.08
2	Bark Nature	Rough	26	MRC (%)	66.26
3	Bark Colour	Dark Grey	27	Stomata /mm ²	499.16
4	Phyllotaxy	Opposite	28	Stomata length (μm)	26.6
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	17.133
6	Leaf Shape	Elliptical	30	Stomata pore length (μm)	18.593
7	Leaf Apex	Mucronate	31	Stomata pore width (μm)	6.733
8	Leaf Margin	Repand	32	Cuticle thickness(μm)	14.523
9	Young Leaf Colour	Dark Copper Red	33	Upper epidermis thickness (μm)	17.723
10	Young Leaf midrib Colour	Red	34	Palisade thickness (μm)	144.9
11	Mature Leaf colour	Green	35	Parenchyma thickness (μm)	169.077
12	Young Leaf Pubescence	Glabrous	36	Lower epidermis thickness (μm)	16.1
13	Number of Glands	2	37	No. of chloroplasts	11.666
14	Position of Glands	Opposite	38	Total thickness(μm)	362.323
15	Leaf Length (cm)	14.533	39	Palisade: Parenchyma	0.857
16	Leaf Width (cm)	14.067	40	Chlorophyll a (mg/g)	0.752
17	Petiole Length (cm)	0.45	41	Chlorophyll b (mg/g)	0.649
18	Leaf Length: petiole length	32.296	42	Chlorophyll a/b	1.161
19	Leaf Weight	7.39	43	total Chlorophyll (mg/g)	1.423
20	Petiole Weight	0.11	44	Phenol (μg/mg)	2.474
21	Leaf weight: Petiole Weight	67.459	45	Reducing sugar (μg/mg)	9.7
22	Lamina weight (gm)	7.28	46	Non-reducing sugar (μg/mg)	9.94
23	Laminar Index (%)	98.516	47	Proline (μg/g)	34.597
24	Internodal Distance(cm)	2.427	48	Protein (mg/g)	23.083