

Accession No. 344

IC No.: 410780

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Ranka, Garwah (Jharkhand)

Date of plantation: July-2002



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Erect	25	Moisture (%)	63.557
2	Bark Nature	Rough	26	MRC (%)	61.747
3	Bark Colour	Dark Grey	27	Stomata /mm ²	186.76
4	Phyllotaxy	Opposite	28	Stomata length (μm)	26.367
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	14.467
6	Leaf Shape	Ovate	30	Stomata pore length (μm)	17.533
7	Leaf Apex	Acute	31	Stomata pore width (μm)	6.18
8	Leaf Margin	Repand	32	Cuticle thickness(μm)	2.573
9	Young Leaf Colour	Dark Copper Red	33	Upper epidermis thickness (μm)	22.14
10	Young Leaf midrib Colour	Red	34	Palisade thickness (μm)	126.497
11	Mature Leaf colour	Dark Green	35	Parenchyma thickness (μm)	126.56
12	Young Leaf Pubescence	Moderate	36	Lower epidermis thickness (μm)	12.66
13	Number of Glands	2	37	No. of chloroplasts	9.667
14	Position of Glands	Opposite	38	Total thickness(μm)	290.43
15	Leaf Length (cm)	10.733	39	Palisade: Parenchyma	0.999
16	Leaf Width (cm)	4.6	40	Chlorophyll a (mg/g)	0.997
17	Petiole Length (cm)	0.9	41	Chlorophyll b (mg/g)	0.789
18	Leaf Length: petiole length	11.926	42	Chlorophyll a/b	1.263
19	Leaf Weight	4.92	43	total Chlorophyll (mg/g)	1.807
20	Petiole Weight	0.108	44	Phenol (μg/mg)	2.823
21	Leaf weight: Petiole Weight	45.715	45	Reducing sugar (μg/mg)	9.083
22	Lamina weight (gm)	4.812	46	Non-reducing sugar (μg/mg)	9.033
23	Laminar Index (%)	97.812	47	Proline (μg/g)	59.81
24	Internodal Distance(cm)	1.847	48	Protein (mg/g)	21.443