

Accession No. 444

IC No.: 381639

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Amdeeh, West Singhbhoom (JH)

Date of plantation: Aug-2002



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Erect	25	Moisture (%)	62.58
2	Bark Nature	Rough	26	MRC (%)	61.44
3	Bark Colour	Dark Brown	27	Stomata /mm ²	338.923
4	Phyllotaxy	Opposite	28	Stomata length (μm)	27.367
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	16.5
6	Leaf Shape	Ovate	30	Stomata pore length (μm)	15.11
7	Leaf Apex	Mucronate	31	Stomata pore width (μm)	6.283
8	Leaf Margin	Repand	32	Cuticle thickness(μm)	10.453
9	Young Leaf Colour	Moderate Copper Red	33	Upper epidermis thickness (μm)	17.693
10	Young Leaf midrib Colour	Red	34	Palisade thickness (μm)	112.703
11	Mature Leaf colour	Green	35	Parenchyma thickness (μm)	144.89
12	Young Leaf Pubescence	Moderate	36	Lower epidermis thickness (μm)	28.167
13	Number of Glands	2	37	No. of chloroplasts	7.666
14	Position of Glands	Alternate	38	Total thickness(μm)	349.547
15	Leaf Length (cm)	11.007	39	Palisade: Parenchyma	0.772
16	Leaf Width (cm)	4.4	40	Chlorophyll a (mg/g)	1.093
17	Petiole Length (cm)	0.117	41	Chlorophyll b (mg/g)	0.862
18	Leaf Length: petiole length	94.343	42	Chlorophyll a/b	1.269
19	Leaf Weight	2.653	43	total Chlorophyll (mg/g)	2.002
20	Petiole Weight	0.04	44	Phenol (μg/mg)	1.363
21	Leaf weight: Petiole Weight	66.151	45	Reducing sugar (μg/mg)	6.967
22	Lamina weight (gm)	2.613	46	Non-reducing sugar (μg/mg)	7.933
23	Laminar Index (%)	98.481	47	Proline (μg/g)	37.833
24	Internodal Distance(cm)	2.073	48	Protein (mg/g)	21.233