

Accession No. 430

IC No.: 381635

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Baharagoda, East Singhbhoom,
(JH)

Date of plantation: Aug-2002



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Erect	25	Moisture (%)	66.067
2	Bark Nature	Smooth	26	MRC (%)	64.277
3	Bark Colour	Light Brown	27	Stomata /mm ²	409.217
4	Phyllotaxy	Opposite	28	Stomata length (μm)	26.233
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	14.1
6	Leaf Shape	Ovate	30	Stomata pore length (μm)	13.987
7	Leaf Apex	Acute	31	Stomata pore width (μm)	5.483
8	Leaf Margin	Repand	32	Cuticle thickness(μm)	10.487
9	Young Leaf Colour	Moderate Copper Red	33	Upper epidermis thickness (μm)	20.123
10	Young Leaf midrib Colour	Red	34	Palisade thickness (μm)	112.693
11	Mature Leaf colour	Green	35	Parenchyma thickness (μm)	128.797
12	Young Leaf Pubescence	Moderate	36	Lower epidermis thickness (μm)	20.12
13	Number of Glands	2	37	No. of chloroplasts	10
14	Position of Glands	Alternate	38	Total thickness(μm)	292.22
15	Leaf Length (cm)	13.333	39	Palisade: Parenchyma	0.875
16	Leaf Width (cm)	5.1	40	Chlorophyll a (mg/g)	1.392
17	Petiole Length (cm)	0.633	41	Chlorophyll b (mg/g)	1.099
18	Leaf Length: petiole length	21.053	42	Chlorophyll a/b	1.267
19	Leaf Weight	4.827	43	total Chlorophyll (mg/g)	2.48
20	Petiole Weight	0.064	44	Phenol (μg/mg)	0.947
21	Leaf weight: Petiole Weight	75.182	45	Reducing sugar (μg/mg)	11.017
22	Lamina weight (gm)	4.762	46	Non-reducing sugar (μg/mg)	8.967
23	Laminar Index (%)	98.668	47	Proline (μg/g)	38.383
24	Internodal Distance(cm)	1.68	48	Protein (mg/g)	34.617