

Accession No. 542

IC No.: 381641

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Rajkharsawan,
S.Kharsawan, Jharkhand

Date of plantation: June-2003



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Erect	25	Moisture (%)	65.437
2	Bark Nature	Rough	26	MRC (%)	63.76
3	Bark Colour	Dark Brown	27	Stomata /mm ²	492.263
4	Phyllotaxy	Opposite	28	Stomata length (μm)	23.8
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	17.333
6	Leaf Shape	Ovate	30	Stomata pore length (μm)	14.563
7	Leaf Apex	Acute	31	Stomata pore width (μm)	4.933
8	Leaf Margin	Sinuate	32	Cuticle thickness(μm)	4.84
9	Young Leaf Colour	Light Copper Red	33	Upper epidermis thickness (μm)	14.51
10	Young Leaf midrib Colour	Green	34	Palisade thickness (μm)	136.823
11	Mature Leaf colour	Green	35	Parenchyma thickness (μm)	177.3
12	Young Leaf Pubescence	Sparse	36	Lower epidermis thickness (μm)	16.073
13	Number of Glands	2	37	No. of chloroplasts	10.333
14	Position of Glands	Alternate	38	Total thickness(μm)	349.547
15	Leaf Length (cm)	11.967	39	Palisade: Parenchyma	0.772
16	Leaf Width (cm)	4.267	40	Chlorophyll a (mg/g)	1.093
17	Petiole Length (cm)	0.467	41	Chlorophyll b (mg/g)	0.862
18	Leaf Length: petiole length	25.643	42	Chlorophyll a/b	1.269
19	Leaf Weight	5.637	43	total Chlorophyll (mg/g)	1.999
20	Petiole Weight	0.065	44	Phenol (μg/mg)	1.213
21	Leaf weight: Petiole Weight	86.397	45	Reducing sugar (μg/mg)	14.417
22	Lamina weight (gm)	5.571	46	Non-reducing sugar (μg/mg)	4.783
23	Laminar Index (%)	98.84	47	Proline (μg/g)	69.607
24	Internodal Distance(cm)	2.43	48	Protein (mg/g)	22.27