

Accession No. 633

IC No.: 410827

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Chakradharpur,
West Singhbhoom, Jharkhand

Date of plantation: July-2003



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Erect	25	Moisture (%)	70.69
2	Bark Nature	Rough	26	MRC (%)	68.487
3	Bark Colour	Grey	27	Stomata /mm ²	364.357
4	Phyllotaxy	Opposite	28	Stomata length (μm)	27.167
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	14.233
6	Leaf Shape	Ovate	30	Stomata pore length (μm)	19.227
7	Leaf Apex	Acute	31	Stomata pore width (μm)	4.027
8	Leaf Margin	Sinuate	32	Cuticle thickness(μm)	16.127
9	Young Leaf Colour	Light Copper Red	33	Upper epidermis thickness (μm)	16.12
10	Young Leaf midrib Colour	Green	34	Palisade thickness (μm)	120.73
11	Mature Leaf colour	Pale Green	35	Parenchyma thickness (μm)	197.243
12	Young Leaf Pubescence	Sparse	36	Lower epidermis thickness (μm)	16.123
13	Number of Glands	2	37	No. of chloroplasts	8
14	Position of Glands	Alternate	38	Total thickness(μm)	366.343
15	Leaf Length (cm)	14.517	39	Palisade: Parenchyma	0.612
16	Leaf Width (cm)	4.367	40	Chlorophyll a (mg/g)	1.264
17	Petiole Length (cm)	0.467	41	Chlorophyll b (mg/g)	0.939
18	Leaf Length: petiole length	31.107	42	Chlorophyll a/b	1.346
19	Leaf Weight	3.76	43	total Chlorophyll (mg/g)	2.215
20	Petiole Weight	0.05	44	Phenol (μg/mg)	5.573
21	Leaf weight: Petiole Weight	75.826	45	Reducing sugar (μg/mg)	3.863
22	Lamina weight (gm)	3.71	46	Non-reducing sugar (μg/mg)	4.5
23	Laminar Index (%)	98.68	47	Proline (μg/g)	20.533
24	Internodal Distance(cm)	1.707	48	Protein (mg/g)	20.45