

Accession No. 541

IC No.: 381646

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Basatonto, W.Singhbhoom(JH)

Date of plantation: June-2003



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Erect	25	Moisture (%)	65.95
2	Bark Nature	Rough	26	MRC (%)	64.64
3	Bark Colour	Dark Grey	27	Stomata /mm ²	380.333
4	Phyllotaxy	Opposite	28	Stomata length (μm)	27.433
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	16.767
6	Leaf Shape	Ovate	30	Stomata pore length (μm)	19.78
7	Leaf Apex	Acute	31	Stomata pore width (μm)	6.267
8	Leaf Margin	Sinuate	32	Cuticle thickness(μm)	10.48
9	Young Leaf Colour	Moderate Copper Red	33	Upper epidermis thickness (μm)	16.123
10	Young Leaf midrib Colour	Red	34	Palisade thickness (μm)	144.86
11	Mature Leaf colour	Pale Green	35	Parenchyma thickness (μm)	217.33
12	Young Leaf Pubescence	Sparse	36	Lower epidermis thickness (μm)	16.103
13	Number of Glands	2	37	No. of chloroplasts	9
14	Position of Glands	Alternate	38	Total thickness(μm)	404.897
15	Leaf Length (cm)	14.083	39	Palisade: Parenchyma	0.667
16	Leaf Width (cm)	5.1	40	Chlorophyll a (mg/g)	1.276
17	Petiole Length (cm)	0.5	41	Chlorophyll b (mg/g)	1.344
18	Leaf Length: petiole length	28.167	42	Chlorophyll a/b	0.95
19	Leaf Weight	5.113	43	total Chlorophyll (mg/g)	2.793
20	Petiole Weight	0.103	44	Phenol (μg/mg)	0.893
21	Leaf weight: Petiole Weight	49.819	45	Reducing sugar (μg/mg)	10.567
22	Lamina weight (gm)	5.011	46	Non-reducing sugar (μg/mg)	6.107
23	Laminar Index (%)	97.992	47	Proline (μg/g)	31.033
24	Internodal Distance(cm)	1.9	48	Protein (mg/g)	19.95