

Accession No. 332

IC No.: 382302

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Edupayalu, Medak(AP)

Date of plantation: July-2002



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Spreading	25	Moisture (%)	64.147
2	Bark Nature	Rough	26	MRC (%)	62.72
3	Bark Colour	Grey	27	Stomata /mm ²	394.383
4	Phyllotaxy	Opposite	28	Stomata length (μm)	29.337
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	16.933
6	Leaf Shape	Ovate	30	Stomata pore length (μm)	22.303
7	Leaf Apex	Acute	31	Stomata pore width (μm)	6.867
8	Leaf Margin	Serrate	32	Cuticle thickness(μm)	9.507
9	Young Leaf Colour	Light Copper Red	33	Upper epidermis thickness (μm)	25.533
10	Young Leaf midrib Colour	Red	34	Palisade thickness (μm)	126.707
11	Mature Leaf colour	Dark Green	35	Parenchyma thickness (μm)	125.607
12	Young Leaf Pubescence	Sparse	36	Lower epidermis thickness (μm)	12.743
13	Number of Glands	2	37	No. of chloroplasts	7
14	Position of Glands	Opposite	38	Total thickness(μm)	300.097
15	Leaf Length (cm)	14.467	39	Palisade: Parenchyma	1.009
16	Leaf Width (cm)	6.333	40	Chlorophyll a (mg/g)	0.817
17	Petiole Length (cm)	0.377	41	Chlorophyll b (mg/g)	0.453
18	Leaf Length: petiole length	38.407	42	Chlorophyll a/b	1.818
19	Leaf Weight	3.753	43	total Chlorophyll (mg/g)	1.31
20	Petiole Weight	0.067	44	Phenol (μg/mg)	2.243
21	Leaf weight: Petiole Weight	56.11	45	Reducing sugar (μg/mg)	12.967
22	Lamina weight (gm)	3.686	46	Non-reducing sugar (μg/mg)	9.5
23	Laminar Index (%)	98.213	47	Proline (μg/g)	49
24	Internodal Distance(cm)	2.327	48	Protein (mg/g)	17.733