

Accession No. 635

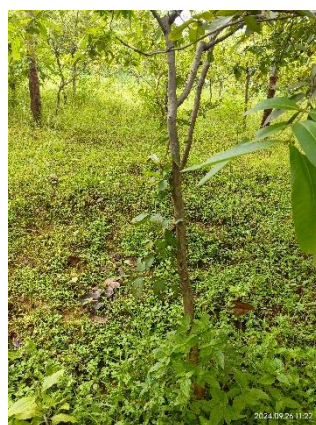
IC No.: 410755

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Lignapeth, Adilabad, AP

Date of plantation: July-2003



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Erect	25	Moisture (%)	73.71
2	Bark Nature	Rough	26	MRC (%)	71.677
3	Bark Colour	Grey	27	Stomata /mm ²	494.513
4	Phyllotaxy	Opposite	28	Stomata length (μm)	26.567
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	14.5
6	Leaf Shape	Lanceolate	30	Stomata pore length (μm)	18.63
7	Leaf Apex	Acute	31	Stomata pore width (μm)	4.983
8	Leaf Margin	Entire	32	Cuticle thickness(μm)	16.077
9	Young Leaf Colour	Dark Copper Red	33	Upper epidermis thickness (μm)	16.077
10	Young Leaf midrib Colour	Red	34	Palisade thickness (μm)	96.573
11	Mature Leaf colour	Pale Green	35	Parenchyma thickness (μm)	193.173
12	Young Leaf Pubescence	Moderate	36	Lower epidermis thickness (μm)	20.12
13	Number of Glands	2	37	No. of chloroplasts	8
14	Position of Glands	Alternate	38	Total thickness(μm)	342.02
15	Leaf Length (cm)	10.123	39	Palisade: Parenchyma	0.5
16	Leaf Width (cm)	5.733	40	Chlorophyll a (mg/g)	1.093
17	Petiole Length (cm)	0.467	41	Chlorophyll b (mg/g)	0.569
18	Leaf Length: petiole length	21.693	42	Chlorophyll a/b	1.924
19	Leaf Weight	2.897	43	total Chlorophyll (mg/g)	1.656
20	Petiole Weight	0.08	44	Phenol (μg/mg)	2.997
21	Leaf weight: Petiole Weight	36.218	45	Reducing sugar (μg/mg)	7.133
22	Lamina weight (gm)	2.817	46	Non-reducing sugar (μg/mg)	5.533
23	Laminar Index (%)	97.237	47	Proline (μg/g)	59.577
24	Internodal Distance(cm)	1.653	48	Protein (mg/g)	23.467