

Accession No. 439

IC No.: 410781

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Godarman, Garhwa, Jharkhand

Date of plantation: Aug-2002



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Erect	25	Moisture (%)	67.6
2	Bark Nature	Smooth	26	MRC (%)	66.203
3	Bark Colour	Brown	27	Stomata /mm ²	460.793
4	Phyllotaxy	Opposite	28	Stomata length (μm)	29.767
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	15.467
6	Leaf Shape	Ovate	30	Stomata pore length (μm)	17.53
7	Leaf Apex	Acute	31	Stomata pore width (μm)	4.603
8	Leaf Margin	Repand	32	Cuticle thickness(μm)	10.47
9	Young Leaf Colour	Dark Copper Red	33	Upper epidermis thickness (μm)	28.423
10	Young Leaf midrib Colour	Red	34	Palisade thickness (μm)	144.983
11	Mature Leaf colour	Green	35	Parenchyma thickness (μm)	201.357
12	Young Leaf Pubescence	Moderate	36	Lower epidermis thickness (μm)	20.11
13	Number of Glands	2	37	No. of chloroplasts	8
14	Position of Glands	Opposite	38	Total thickness(μm)	406.457
15	Leaf Length (cm)	11.16	39	Palisade: Parenchyma	0.72
16	Leaf Width (cm)	3.767	40	Chlorophyll a (mg/g)	1.249
17	Petiole Length (cm)	0.5	41	Chlorophyll b (mg/g)	0.862
18	Leaf Length: petiole length	22.32	42	Chlorophyll a/b	1.449
19	Leaf Weight	4.373	43	total Chlorophyll (mg/g)	2.131
20	Petiole Weight	0.066	44	Phenol (μg/mg)	1.649
21	Leaf weight: Petiole Weight	66.124	45	Reducing sugar (μg/mg)	7.45
22	Lamina weight (gm)	4.307	46	Non-reducing sugar (μg/mg)	10.65
23	Laminar Index (%)	98.482	47	Proline (μg/g)	26.84
24	Internodal Distance(cm)	1.8	48	Protein (mg/g)	18.063