

Accession No. 135

IC No.:

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Bijikhaman, Sundergarh, Orissa

Date of plantation: July-Aug 2001



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Erect	25	Moisture (%)	65.343
2	Bark Nature	Rough	26	MRC (%)	62.403
3	Bark Colour	Brown	27	Stomata /mm ²	218.433
4	Phyllotaxy	Opposite	28	Stomata length (μm)	24.9
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	15.4
6	Leaf Shape	Lanceolate	30	Stomata pore length (μm)	16.3
7	Leaf Apex	Acute	31	Stomata pore width (μm)	6.377
8	Leaf Margin	Repand	32	Cuticle thickness(μm)	3.207
9	Young Leaf Colour	Light Copper Red	33	Upper epidermis thickness (μm)	25.287
10	Young Leaf midrib Colour	Green	34	Palisade thickness (μm)	126.463
11	Mature Leaf colour	Green	35	Parenchyma thickness (μm)	88.5
12	Young Leaf Pubescence	Moderate	36	Lower epidermis thickness (μm)	12.63
13	Number of Glands	2	37	No. of chloroplasts	8
14	Position of Glands	Alternate	38	Total thickness(μm)	256.087
15	Leaf Length (cm)	13.813	39	Palisade: Parenchyma	1.429
16	Leaf Width (cm)	4.6	40	Chlorophyll a (mg/g)	1.65
17	Petiole Length (cm)	0.267	41	Chlorophyll b (mg/g)	1.363
18	Leaf Length: petiole length	51.8	42	Chlorophyll a/b	1.21
19	Leaf Weight	4.543	43	total Chlorophyll (mg/g)	3.043
20	Petiole Weight	0.082	44	Phenol (μg/mg)	0.843
21	Leaf weight: Petiole Weight	55.649	45	Reducing sugar (μg/mg)	2.643
22	Lamina weight (gm)	4.462	46	Non-reducing sugar (μg/mg)	6.09
23	Laminar Index (%)	98.202	47	Proline (μg/g)	25.1
24	Internodal Distance(cm)	2.397	48	Protein (mg/g)	35.683