

Accession No. 225

IC No.:

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Sonahatu, Ranchi, Jharkhand

Date of plantation: June-2002



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Erect	25	Moisture (%)	67.19
2	Bark Nature	Smooth	26	MRC (%)	66
3	Bark Colour	DarkBrown	27	Stomata /mm ²	494.117
4	Phyllotaxy	Opposite	28	Stomata length (μm)	25.933
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	16.267
6	Leaf Shape	Ovate	30	Stomata pore length (μm)	16.293
7	Leaf Apex	Mucronate	31	Stomata pore width (μm)	6.143
8	Leaf Margin	Repand	32	Cuticle thickness(μm)	6.363
9	Young Leaf Colour	Dark Copper Red	33	Upper epidermis thickness (μm)	25.277
10	Young Leaf midrib Colour	Green	34	Palisade thickness (μm)	126.477
11	Mature Leaf colour	Dark Green	35	Parenchyma thickness (μm)	189.75
12	Young Leaf Pubescence	Sparse	36	Lower epidermis thickness (μm)	25.3
13	Number of Glands	2	37	No. of chloroplasts	7.333
14	Position of Glands	Alternate	38	Total thickness(μm)	323.237
15	Leaf Length (cm)	19.483	39	Palisade: Parenchyma	1.2
16	Leaf Width (cm)	6.433	40	Chlorophyll a (mg/g)	0.87
17	Petiole Length (cm)	0.867	41	Chlorophyll b (mg/g)	0.923
18	Leaf Length: petiole length	22.481	42	Chlorophyll a/b	0.948
19	Leaf Weight	4.09	43	total Chlorophyll (mg/g)	3.497
20	Petiole Weight	0.027	44	Phenol (μg/mg)	0.608
21	Leaf weight: Petiole Weight	214.111	45	Reducing sugar (μg/mg)	9.167
22	Lamina weight (gm)	4.063	46	Non-reducing sugar (μg/mg)	7.557
23	Laminar Index (%)	99.352	47	Proline (μg/g)	54.663
24	Internodal Distance(cm)	2.32	48	Protein (mg/g)	18.66