

Accession No. 615

IC No.: 410840

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Laltapur, Dehradun,
Uttarakhand

Date of plantation: July-2003



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Erect	25	Moisture (%)	65.757
2	Bark Nature	Rough	26	MRC (%)	63.45
3	Bark Colour	Light Brown	27	Stomata /mm ²	425.093
4	Phyllotaxy	Opposite	28	Stomata length (μm)	28.9
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	16.7
6	Leaf Shape	Ovate	30	Stomata pore length (μm)	13.983
7	Leaf Apex	Acute	31	Stomata pore width (μm)	5.57
8	Leaf Margin	Repand	32	Cuticle thickness(μm)	9.64
9	Young Leaf Colour	Moderate Copper Red	33	Upper epidermis thickness (μm)	28.12
10	Young Leaf midrib Colour	Red	34	Palisade thickness (μm)	106.28
11	Mature Leaf colour	Green	35	Parenchyma thickness (μm)	185.153
12	Young Leaf Pubescence	Sparse	36	Lower epidermis thickness (μm)	14.51
13	Number of Glands	2	37	No. of chloroplasts	9
14	Position of Glands	Alternate	38	Total thickness(μm)	343.703
15	Leaf Length (cm)	17.317	39	Palisade: Parenchyma	0.574
16	Leaf Width (cm)	5.1	40	Chlorophyll a (mg/g)	0.73
17	Petiole Length (cm)	0.767	41	Chlorophyll b (mg/g)	0.427
18	Leaf Length: petiole length	22.587	42	Chlorophyll a/b	1.712
19	Leaf Weight	2.94	43	total Chlorophyll (mg/g)	1.247
20	Petiole Weight	0.069	44	Phenol (μg/mg)	1.147
21	Leaf weight: Petiole Weight	42.725	45	Reducing sugar (μg/mg)	7.227
22	Lamina weight (gm)	2.871	46	Non-reducing sugar (μg/mg)	11.2
23	Laminar Index (%)	97.65	47	Proline (μg/g)	66.35
24	Internodal Distance(cm)	2.24	48	Protein (mg/g)	14.317