

Accession No. 302

IC No.: 326384

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Medki, Chandrapur,
(MAHARASTRA)

Date of plantation: July-2002



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Erect	25	Moisture (%)	68.413
2	Bark Nature	Rough	26	MRC (%)	66.663
3	Bark Colour	Brown	27	Stomata /mm ²	423.09
4	Phyllotaxy	Opposite	28	Stomata length (μm)	26.683
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	16.947
6	Leaf Shape	Ovate	30	Stomata pore length (μm)	17.717
7	Leaf Apex	Acute	31	Stomata pore width (μm)	5.667
8	Leaf Margin	Repand	32	Cuticle thickness(μm)	3.137
9	Young Leaf Colour	Moderate Copper Red	33	Upper epidermis thickness (μm)	31.983
10	Young Leaf midrib Colour	Red	34	Palisade thickness (μm)	126.733
11	Mature Leaf colour	Green	35	Parenchyma thickness (μm)	113.603
12	Young Leaf Pubescence	Sparse	36	Lower epidermis thickness (μm)	6.52
13	Number of Glands	2	37	No. of chloroplasts	8
14	Position of Glands	Alternate	38	Total thickness(μm)	281.977
15	Leaf Length (cm)	10.333	39	Palisade: Parenchyma	1.116
16	Leaf Width (cm)	4.333	40	Chlorophyll a (mg/g)	0.667
17	Petiole Length (cm)	0.38	41	Chlorophyll b (mg/g)	0.617
18	Leaf Length: petiole length	27.193	42	Chlorophyll a/b	1.081
19	Leaf Weight	3.117	43	total Chlorophyll (mg/g)	1.333
20	Petiole Weight	0.045	44	Phenol (μg/mg)	1.03
21	Leaf weight: Petiole Weight	69.345	45	Reducing sugar (μg/mg)	7.9
22	Lamina weight (gm)	3.072	46	Non-reducing sugar (μg/mg)	7.9
23	Laminar Index (%)	98.557	47	Proline (μg/g)	46.333
24	Internodal Distance(cm)	2.73	48	Protein (mg/g)	17.9