

Accession No. 512

IC No.: 410829

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Gharshila, West Singhbhoom,
Jharkhand

Date of plantation: June-2003



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Erect	25	Moisture (%)	67.547
2	Bark Nature	Rough	26	MRC (%)	65.593
3	Bark Colour	Grey	27	Stomata /mm2	480.853
4	Phyllotaxy	Opposite	28	Stomata length (µm)	27.423
5	Leaf Nature	Homophyllous	29	Stomata width (µm)	13.49
6	Leaf Shape	Oblique	30	Stomata pore length (µm)	18.8
7	Leaf Apex	Mucronate	31	Stomata pore width (µm)	5.987
8	Leaf Margin	Serrulate	32	Cuticle thickness(µm)	10.52
9	Young Leaf Colour	Light Copper Red	33	Upper epidermis thickness (µm)	30.727
10	Young Leaf midrib Colour	Red	34	Palisade thickness (µm)	161.147
11	Mature Leaf colour	Pale Green	35	Parenchyma thickness (µm)	161.177
12	Young Leaf Pubescence	Glabrous	36	Lower epidermis thickness (µm)	14.567
13	Number of Glands	2	37	No. of chloroplasts	6.666
14	Position of Glands	Alternate	38	Total thickness(µm)	378.137
15	Leaf Length (cm)	13.7	39	Palisade: Parenchyma	1
16	Leaf Width (cm)	4.4	40	Chlorophyll a (mg/g)	1.163
17	Petiole Length (cm)	0.71	41	Chlorophyll b (mg/g)	0.977
18	Leaf Length: petiole length	19.296	42	Chlorophyll a/b	1.191
19	Leaf Weight	3.913	43	total Chlorophyll (mg/g)	2.147
20	Petiole Weight	0.094	44	Phenol (µg/mg)	1.31
21	Leaf weight: Petiole Weight	41.492	45	Reducing sugar (µg/mg)	20.8
22	Lamina weight (gm)	3.819	46	Non-reducing sugar (µg/mg)	3.837
23	Laminar Index (%)	97.59	47	Proline (µg/g)	69.5
24	Internodal Distance(cm)	1.837	48	Protein (mg/g)	27.233