

Accession No. 336

IC No.: 410859

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Dhorpur, Sarguja,

Chhattisgarh

Date of plantation: July-2002



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Erect	25	Moisture (%)	64.273
2	Bark Nature	Rough	26	MRC (%)	62.697
3	Bark Colour	Grey	27	Stomata /mm ²	412.16
4	Phyllotaxy	Opposite	28	Stomata length (μm)	28.167
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	15.333
6	Leaf Shape	Ovate	30	Stomata pore length (μm)	17.52
7	Leaf Apex	Acute	31	Stomata pore width (μm)	5.37
8	Leaf Margin	Repend	32	Cuticle thickness(μm)	12.66
9	Young Leaf Colour	Dark Copper Red	33	Upper epidermis thickness (μm)	18.973
10	Young Leaf midrib Colour	Red	34	Palisade thickness (μm)	126.503
11	Mature Leaf colour	Dark Green	35	Parenchyma thickness (μm)	168.4
12	Young Leaf Pubescence	Sparse	36	Lower epidermis thickness (μm)	9.49
13	Number of Glands	2	37	No. of chloroplasts	11
14	Position of Glands	Opposite	38	Total thickness(μm)	336.027
15	Leaf Length (cm)	11.317	39	Palisade: Parenchyma	0.751
16	Leaf Width (cm)	3.867	40	Chlorophyll a (mg/g)	1.327
17	Petiole Length (cm)	0.367	41	Chlorophyll b (mg/g)	1.107
18	Leaf Length: petiole length	30.864	42	Chlorophyll a/b	1.202
19	Leaf Weight	3.737	43	total Chlorophyll (mg/g)	2.435
20	Petiole Weight	0.063	44	Phenol (μg/mg)	2.477
21	Leaf weight: Petiole Weight	59.682	45	Reducing sugar (μg/mg)	8.983
22	Lamina weight (gm)	3.674	46	Non-reducing sugar (μg/mg)	7.65
23	Laminar Index (%)	98.323	47	Proline (μg/g)	34.07
24	Internodal Distance(cm)	1.863	48	Protein (mg/g)	26.45