

Accession No. 211

IC No.:

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Silke, Ranchi, Jharkhand

Date of plantation: June-2002



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Erect	25	Moisture (%)	75.97
2	Bark Nature	Smooth	26	MRC (%)	73.62
3	Bark Colour	Light Grey	27	Stomata /mm ²	380.43
4	Phyllotaxy	Opposite	28	Stomata length (μm)	28.06
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	10.467
6	Leaf Shape	Lanceolate	30	Stomata pore length (μm)	19.87
7	Leaf Apex	Acute	31	Stomata pore width (μm)	5.863
8	Leaf Margin	Repand	32	Cuticle thickness(μm)	12.583
9	Young Leaf Colour	Light Copper Red	33	Upper epidermis thickness (μm)	19.06
10	Young Leaf midrib Colour	Green	34	Palisade thickness (μm)	177.237
11	Mature Leaf colour	Pale Green	35	Parenchyma thickness (μm)	139.287
12	Young Leaf Pubescence	Dense	36	Lower epidermis thickness (μm)	12.63
13	Number of Glands	2	37	No. of chloroplasts	7
14	Position of Glands	Opposite	38	Total thickness(μm)	354.617
15	Leaf Length (cm)	14.233	39	Palisade: Parenchyma	1.272
16	Leaf Width (cm)	5.367	40	Chlorophyll a (mg/g)	1.72
17	Petiole Length (cm)	0.313	41	Chlorophyll b (mg/g)	1.257
18	Leaf Length: petiole length	45.426	42	Chlorophyll a/b	1.371
19	Leaf Weight	4.653	43	total Chlorophyll (mg/g)	2.727
20	Petiole Weight	0.093	44	Phenol (μg/mg)	1.537
21	Leaf weight: Petiole Weight	50.724	45	Reducing sugar (μg/mg)	9.167
22	Lamina weight (gm)	4.561	46	Non-reducing sugar (μg/mg)	7.2
23	Laminar Index (%)	98.008	47	Proline (μg/g)	20.767
24	Internodal Distance(cm)	2.213	48	Protein (mg/g)	13.5