

## Accession No. 219

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Scientific Name: *Terminalia tomentosa*

Common Name: Asan

Place of origin: Khapa, Bhandara (MH)

Year of Planting: June-2002



### Anatomy and physiology

| #  | Parameter                   |                  | #  | Parameter                      |        |
|----|-----------------------------|------------------|----|--------------------------------|--------|
| 1  | Plant Nature                | Erect            | 25 | Moisture (%)                   | 70.19  |
| 2  | Bark Nature                 | Rough            | 26 | MRC (%)                        | 67.17  |
| 3  | Bark Colour                 | Dark Grey        | 27 | Stomata /mm <sup>2</sup>       | 512.08 |
| 4  | Phyllotaxy                  | Opposite         | 28 | Stomata length (μm)            | 23.78  |
| 5  | Leaf Nature                 | Homophyllous     | 29 | Stomata width (μm)             | 15.32  |
| 6  | Leaf Shape                  | Elliptical       | 30 | Stomata pore length (μm)       | 18.82  |
| 7  | Leaf Apex                   | Mucronate        | 31 | Stomata pore width (μm)        | 5.71   |
| 8  | Leaf Margin                 | Sinuate          | 32 | Cuticle thickness(μm)          | 10.57  |
| 9  | Young Leaf Colour           | Light Copper Red | 33 | Upper epidermis thickness (μm) | 16.17  |
| 10 | Young Leaf midrib Colour    | Red              | 34 | Palisade thickness (μm)        | 154.11 |
| 11 | Mature Leaf colour          | Pale Green       | 35 | Parenchyma thickness (μm)      | 194.26 |
| 12 | Young Leaf Pubescence       | Sparse           | 36 | Lower epidermis thickness (μm) | 20.18  |
| 13 | Number of Glands            | 2.00             | 37 | No. of chloroplasts            | 10.00  |
| 14 | Position of Glands          | Alternate        | 38 | Total thickness(μm)            | 395.28 |
| 15 | Leaf Length (cm)            | 12.03            | 39 | Palisade: Parenchyma           | 0.79   |
| 16 | Leaf Width (cm)             | 6.13             | 40 | Chlorophyll a (mg/g)           | 0.73   |
| 17 | Petiole Length (cm)         | 0.67             | 41 | Chlorophyll b (mg/g)           | 0.57   |
| 18 | Leaf Length: petiole length | 18.05            | 42 | Chlorophyll a/b                | 1.29   |
| 19 | Leaf Weight                 | 9.57             | 43 | total Chlorophyll (mg/g)       | 2.36   |
| 20 | Petiole Weight              | 0.26             | 44 | Phenol (μg/mg)                 | 1.74   |
| 21 | Leaf weight: Petiole Weight | 37.28            | 45 | Reducing sugar (μg/mg)         | 3.82   |
| 22 | Lamina weight (gm)          | 9.31             | 46 | Non-reducing sugar (μg/mg)     | 8.32   |
| 23 | Laminar Index (%)           | 97.30            | 47 | Proline (μg/g)                 | 39.07  |
| 24 | Internodal Distance(cm)     | 2.32             | 48 | Protein (mg/g)                 | 35.26  |