

## Accession No. 610

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Scientific Name: *Terminalia tomentosa*

Common Name: Asan

Place of origin: Nagri,Ranchi,Jharkhand

Year of Planting: July-2003



### Anatomy and physiology

| #  | Parameter                   |                  | #  | Parameter                      |         |
|----|-----------------------------|------------------|----|--------------------------------|---------|
| 1  | Plant Nature                | Erect            | 25 | Moisture (%)                   | 67.54   |
| 2  | Bark Nature                 | Rough            | 26 | MRC (%)                        | 65.633  |
| 3  | Bark Colour                 | Dark Grey        | 27 | Stomata /mm <sup>2</sup>       | 356.707 |
| 4  | Phyllotaxy                  | Opposite         | 28 | Stomata length (μm)            | 23.1    |
| 5  | Leaf Nature                 | Homophyllous     | 29 | Stomata width (μm)             | 14.667  |
| 6  | Leaf Shape                  | Oblique          | 30 | Stomata pore length (μm)       | 13.003  |
| 7  | Leaf Apex                   | Acute            | 31 | Stomata pore width (μm)        | 5.69    |
| 8  | Leaf Margin                 | Sinuate          | 32 | Cuticle thickness(μm)          | 28.067  |
| 9  | Young Leaf Colour           | Light Copper Red | 33 | Upper epidermis thickness (μm) | 16.173  |
| 10 | Young Leaf midrib Colour    | Green            | 34 | Palisade thickness (μm)        | 129.01  |
| 11 | Mature Leaf colour          | Green            | 35 | Parenchyma thickness (μm)      | 163.033 |
| 12 | Young Leaf Pubescence       | Dense            | 36 | Lower epidermis thickness (μm) | 22.203  |
| 13 | Number of Glands            | 2                | 37 | No. of chloroplasts            | 7.667   |
| 14 | Position of Glands          | Alternate        | 38 | Total thickness(μm)            | 358.487 |
| 15 | Leaf Length (cm)            | 21.5             | 39 | Palisade: Parenchyma           | 0.791   |
| 16 | Leaf Width (cm)             | 10.633           | 40 | Chlorophyll a (mg/g)           | 1.168   |
| 17 | Petiole Length (cm)         | 0.953            | 41 | Chlorophyll b (mg/g)           | 1.146   |
| 18 | Leaf Length: petiole length | 22.552           | 42 | Chlorophyll a/b                | 1.019   |
| 19 | Leaf Weight                 | 2.417            | 43 | total Chlorophyll (mg/g)       | 2.085   |
| 20 | Petiole Weight              | 0.063            | 44 | Phenol (μg/mg)                 | 2.01    |
| 21 | Leaf weight: Petiole Weight | 38.583           | 45 | Reducing sugar (μg/mg)         | 10.45   |
| 22 | Lamina weight (gm)          | 2.354            | 46 | Non-reducing sugar (μg/mg)     | 6.563   |
| 23 | Laminar Index (%)           | 97.406           | 47 | Proline (μg/g)                 | 12.633  |
| 24 | Internodal Distance(cm)     | 2.07             | 48 | Protein (mg/g)                 | 10.84   |