

## Accession No. 408

IC No.:

Scientific Name: *Terminalia tomentosa*

Common Name: Asan

Place of origin: Nagri,Ranchi,Jharkhand

Year of Planting: August-2002



### Anatomy and physiology

| #  | Parameter                   |                  | #  | Parameter                      |         |
|----|-----------------------------|------------------|----|--------------------------------|---------|
| 1  | Plant Nature                | Erect            | 25 | Moisture (%)                   | 67.487  |
| 2  | Bark Nature                 | Rough            | 26 | MRC (%)                        | 65.933  |
| 3  | Bark Colour                 | Dark Grey        | 27 | Stomata /mm <sup>2</sup>       | 378.93  |
| 4  | Phyllotaxy                  | Opposite         | 28 | Stomata length (μm)            | 26.6    |
| 5  | Leaf Nature                 | Homophyllous     | 29 | Stomata width (μm)             | 15.367  |
| 6  | Leaf Shape                  | Elliptical       | 30 | Stomata pore length (μm)       | 18.75   |
| 7  | Leaf Apex                   | Mucronate        | 31 | Stomata pore width (μm)        | 4.65    |
| 8  | Leaf Margin                 | Serrate          | 32 | Cuticle thickness(μm)          | 16.16   |
| 9  | Young Leaf Colour           | Light Copper Red | 33 | Upper epidermis thickness (μm) | 16.293  |
| 10 | Young Leaf midrib Colour    | Red              | 34 | Palisade thickness (μm)        | 97.99   |
| 11 | Mature Leaf colour          | Green            | 35 | Parenchyma thickness (μm)      | 146.37  |
| 12 | Young Leaf Pubescence       | Dense            | 36 | Lower epidermis thickness (μm) | 16.213  |
| 13 | Number of Glands            | 2                | 37 | No. of chloroplasts            | 9.333   |
| 14 | Position of Glands          | Alternate        | 38 | Total thickness(μm)            | 293.027 |
| 15 | Leaf Length (cm)            | 17.633           | 39 | Palisade: Parenchyma           | 0.669   |
| 16 | Leaf Width (cm)             | 8.067            | 40 | Chlorophyll a (mg/g)           | 0.553   |
| 17 | Petiole Length (cm)         | 0.633            | 41 | Chlorophyll b (mg/g)           | 0.451   |
| 18 | Leaf Length: petiole length | 27.842           | 42 | Chlorophyll a/b                | 1.23    |
| 19 | Leaf Weight                 | 5.25             | 43 | total Chlorophyll (mg/g)       | 1.037   |
| 20 | Petiole Weight              | 0.118            | 44 | Phenol (μg/mg)                 | 1.257   |
| 21 | Leaf weight: Petiole Weight | 44.642           | 45 | Reducing sugar (μg/mg)         | 10.773  |
| 22 | Lamina weight (gm)          | 5.132            | 46 | Non-reducing sugar (μg/mg)     | 9.38    |
| 23 | Laminar Index (%)           | 97.759           | 47 | Proline (μg/g)                 | 45.59   |
| 24 | Internodal Distance(cm)     | 2.147            | 48 | Protein (mg/g)                 | 9.49    |