

Tree Report of 30331



Genus
Swietenia

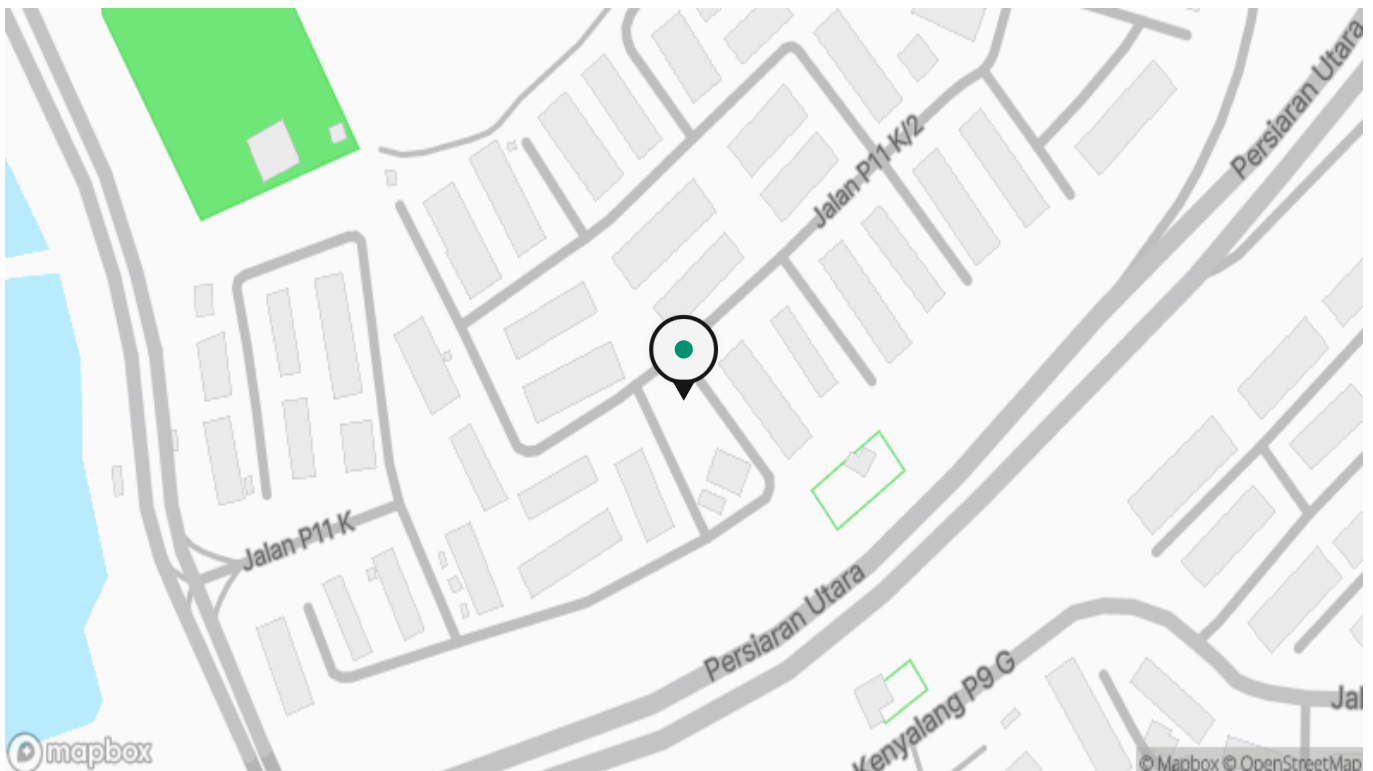
Species
macrophylla

Common Name
Mahogani

Date of report
16th March, 2026

Address
Jalan P11 K/4

Position
2.948327449212215, 101.67925134026255



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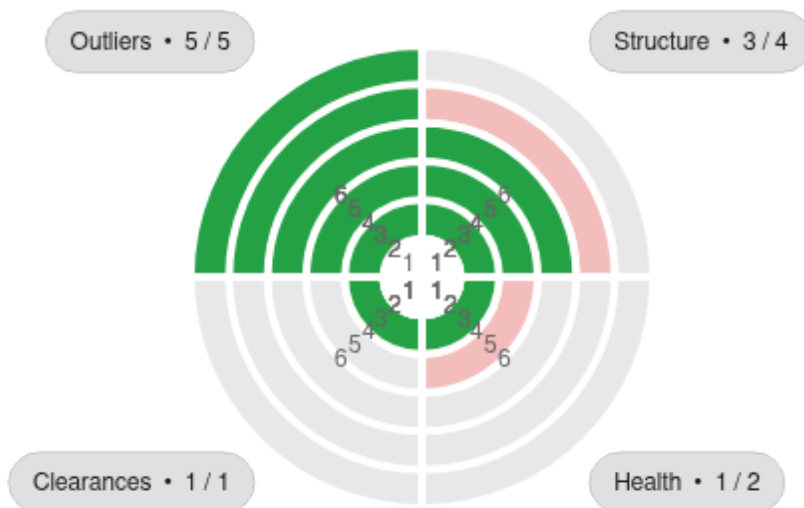
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Structural assessment

- ✗ Trunk stability (base)
- ✓ Crown Lean Angle
- ✓ Slenderness
- ✓ Dieback

Health & Vitality

- ✓ Dieback
- ✗ Foliage Transparency

Clearances

- ✓ Road

Outliers

- ✓ DBH vs Leaf Area
- ✓ Height vs Crown Volume
- ✓ DBH vs Height
- ✓ Leaf Area vs Crown Volume
- ✓ DBH vs Crown Volume

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Dimensions

| | | | | | |
|--------------|------------|---------|----------------------|-------|--------|
| Total Height | Very high | 12.83 m | Crown Spread | Large | 8.33 m |
| Trunk Height | High | 3.12 m | Tree Protection Zone | Large | 3.26 m |
| DBH | Large | 0.28 m | Root Protection Zone | Large | 4.89 m |
| Crown Height | Very large | 8.83 m | Number Of Stems | Low | 1 |

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Structural assessment

Stability

| | | | | | |
|-----------------------|------|--------|------------------|-----------|--------|
| Slenderness | High | 47.26 | Crown Lean Angle | High | 7.56 ° |
| Trunk Stability Index | | 0.63 | Trunk Lean Angle | Very high | 8.23 ° |
| Critical Wind Speed | | 55 kmh | | | |

Limbs

| | | | |
|------------------|---|-----------------------|---|
| Number of Limbs | - | Fork Types | - |
| Codominant Stems | - | Cross-sectional shape | - |
| Included Bark | - | | |

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Health and vitality

Condition & Vigor

| | | | | |
|----------------------|------------------|--------|----------------------|-------------------------------------|
| Dieback | Very high | 58.02% | Foliage Transparency | 19.03% |
| Basal Area Increment | - | - | Leaf Area | Medium 162.63 m ² |
| NDVI | - | - | Leaf Area Index | Medium 5.49 |

Foliage

| | | | | |
|-------------------|--------------|------------------------------------|------------------|----------------------|
| Leaf Area Density | Low | 1.1 m ² /m ³ | Live Crown Ratio | Medium 68.82% |
| Crown Volume | Large | 147.92 m ³ | | |

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Benefits

Water management

| | | | | | |
|------------------------------|------|--------------------------|---------------|------|-------------------------|
| Avoided Water Runoff | High | 0.12 m ³ /yr | Evaporation | High | 1.98 m ³ /yr |
| Potential Evapotranspiration | High | 12.17 m ³ /yr | Transpiration | High | 2.34 m ³ /yr |
| Water Intercepted | High | 1.99 m ³ /yr | | | |

Ecosystem services

| | | | | | |
|---------------------------|------|-------------|-------------------------|------|------------|
| Carbon Storage | High | 231.64 kg | CO Removal | High | 5.83 g/yr |
| Carbon Sequestration | High | 28.27 kg/yr | NO ₂ Removal | High | 23.03 g/yr |
| Oxygen Production | High | 74.7 kg/yr | O ₃ Removal | High | 277.5 g/yr |
| PM _{2.5} Removal | High | 14.49 g/yr | SO ₂ Removal | High | 49.68 g/yr |

Economical value

Cavat Value **Valuable** 2,538.36 £

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Outlier information

| | | | |
|----------------------------------|----|----------------------------|-------|
| Height / Crown Volume | No | Trunk Diameter / Height | No |
| Height / Leaf Area | No | Trunk Diameter / Leaf Area | No |
| Leaf Area Density Outlier | No | Overall Outlier Index | Low 0 |
| Trunk Diameter / Crown Volume | No | | |

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Clearances

Building Clearance

Not available

Road Clearance

No issue

Wire Clearance

Not available

Traffic Sign Clearance

Not available

Visibility Clearance

Not available

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