

Tree Report of  
**20624**



Genus  
**Swietenia**

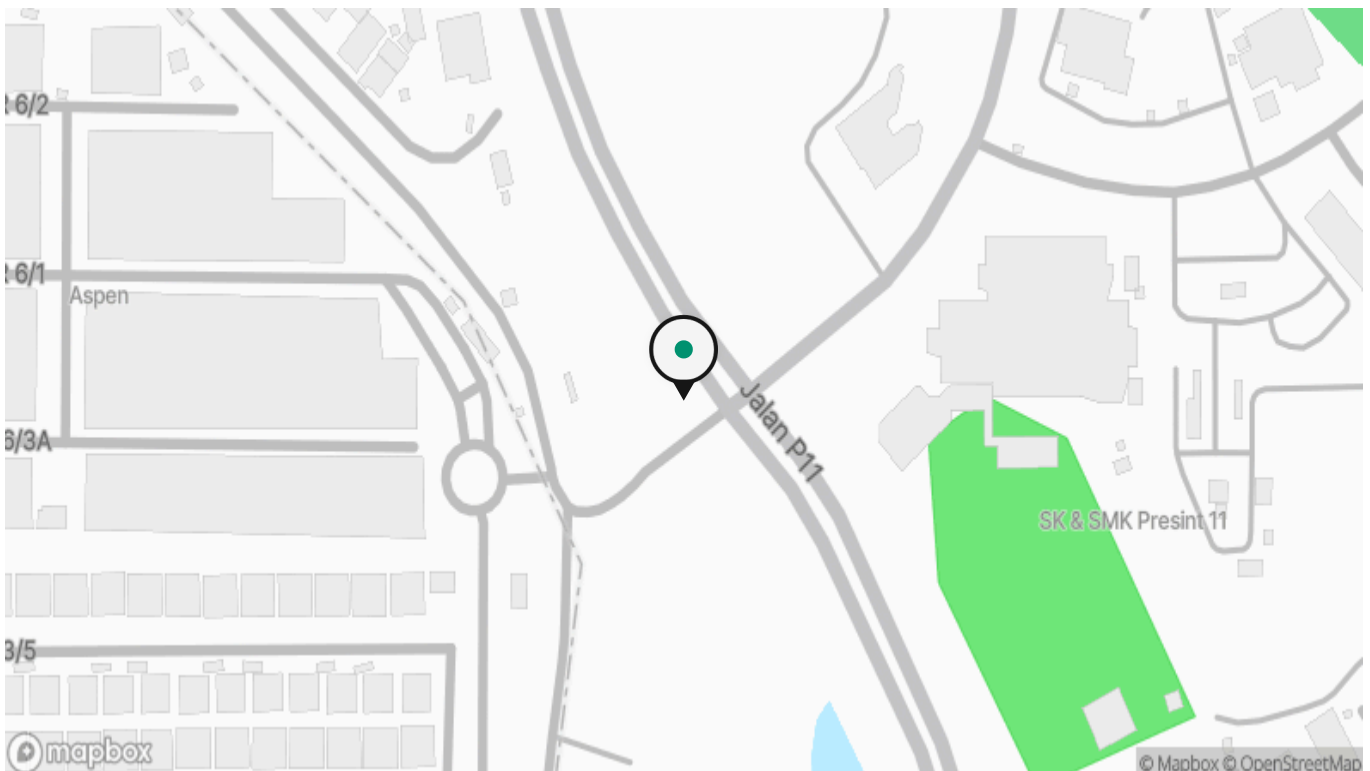
Species  
**macrophylla**

Common Name  
**Mahogani**

Date of report  
**16th March, 2026**

Address  
**Jalan P11**

Position  
**2.95048168105491, 101.67556127861657**



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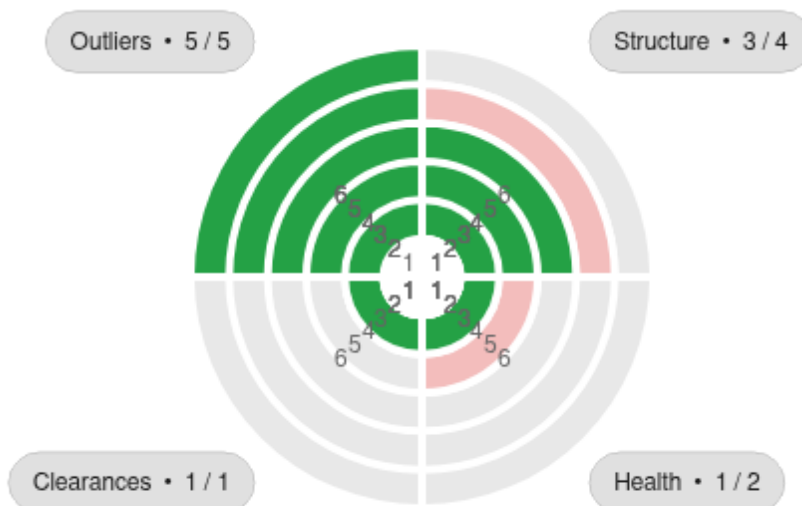
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## Structural assessment

- ✗ 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	22.37 m	Crown Spread	Very large	14.03 m
Trunk Height	Very high	3.66 m	Tree Protection Zone	Very large	6.72 m
DBH	Very large	0.56 m	Root Protection Zone	Very large	10.08 m
Crown Height	Very large	19.06 m	Number Of Stems	Low	1

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## Structural assessment

### Stability

Slenderness	High	39.97	Crown Lean Angle	High	11.05 °
Trunk Stability Index		0.75	Trunk Lean Angle	Medium	3.81 °
Critical Wind Speed		60 kmh			

### Limbs

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

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## Health and vitality

### Condition & Vigor

Dieback	<b>Low</b>	0.16%	Foliage Transparency		30.2%
Basal Area Increment		-	Leaf Area	<b>Very large</b>	1,305.93 m <sup>2</sup>
NDVI		-	Leaf Area Index	<b>High</b>	9.94

### Foliage

Leaf Area Density	<b>Low</b>	0.89 m <sup>2</sup> /m <sup>3</sup>	Live Crown Ratio	<b>Very high</b>	85.2%
Crown Volume	<b>Very large</b>	1,475.97 m <sup>3</sup>			

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## Benefits

### Water management

Avoided Water Runoff	Very high	0.42 m <sup>3</sup> /yr	Evaporation	Very high	7.4 m <sup>3</sup> /yr
Potential Evapotranspiration	Very high	45.65 m <sup>3</sup> /yr	Transpiration	Very high	8.76 m <sup>3</sup> /yr
Water Intercepted	Very high	7.45 m <sup>3</sup> /yr			

### Ecosystem services

Carbon Storage	Very high	1,387.23 kg	CO Removal	Very high	16.53 g/yr
Carbon Sequestration	Very high	109.5 kg/yr	NO <sub>2</sub> Removal	Very high	65.33 g/yr
Oxygen Production	Very high	289.36 kg/yr	O <sub>3</sub> Removal	Very high	787.36 g/yr
PM <sub>2.5</sub> Removal	Very high	41.11 g/yr	SO <sub>2</sub> Removal	Very high	140.95 g/yr

### Economical value

Cavat Value Very valuable 10,797.02 £

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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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