

Tree Report of  
**30398**



Genus  
**Samanea**

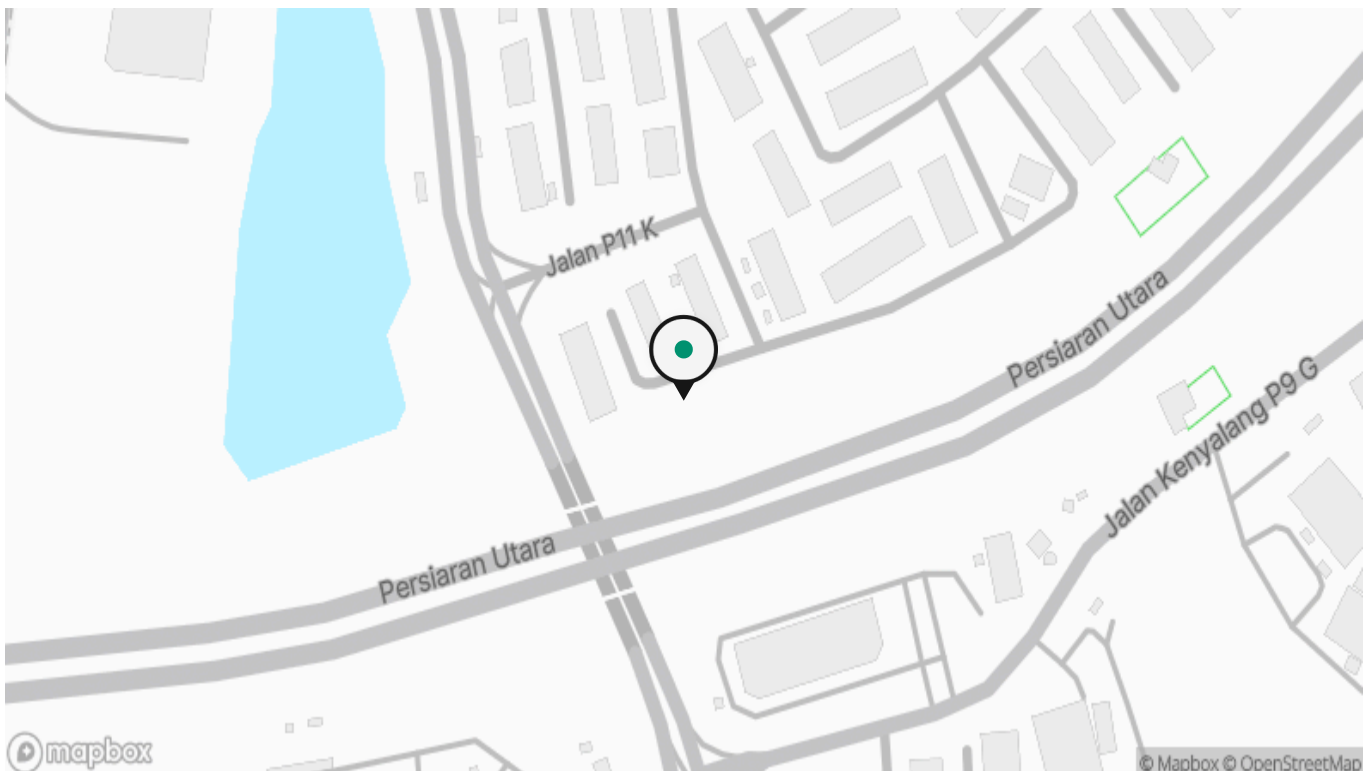
Species  
**saman**

Common Name  
**Hujan-hujan**

Date of report  
**1st April, 2026**

Address  
**Jalan P11 K/5**

Position  
**2.947212715287151, 101.67791349827255**



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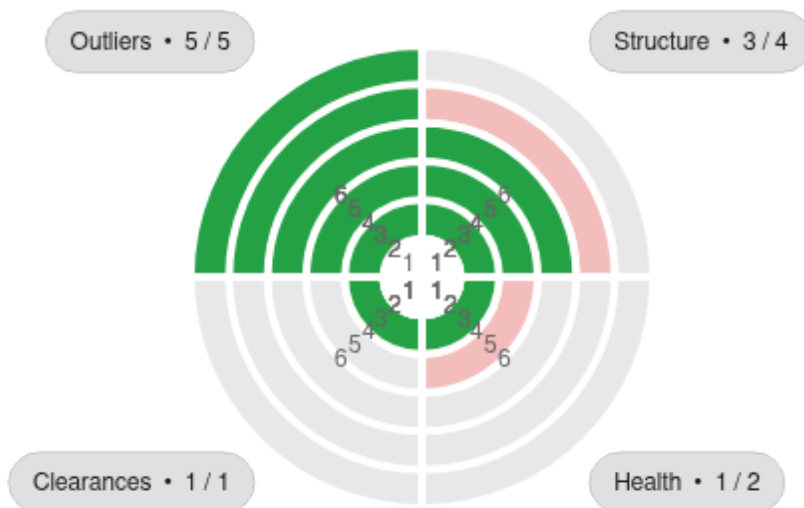
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## Structural assessment

- ✗ 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	16.87 m	Crown Spread	Very large	23.49 m
Trunk Height	High	3 m	Tree Protection Zone	Very large	8.83 m
DBH	Very large	0.74 m	Root Protection Zone	Very large	13.24 m
Crown Height	Very large	13.63 m	Number Of Stems	Low	1

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## Structural assessment

### Stability

Slenderness	Low	22.95	Crown Lean Angle	Low	1.67 °
Trunk Stability Index		1.42	Trunk Lean Angle	High	6.79 °
Critical Wind Speed		80 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>	0.31%	Foliage Transparency	19.97%
Basal Area Increment	-	-	Leaf Area	<b>Very large</b> 2,158.69 m <sup>2</sup>
NDVI	-	-	Leaf Area Index	<b>Medium</b> 6.25

### Foliage

Leaf Area Density	<b>Low</b>	0.58 m <sup>2</sup> /m <sup>3</sup>	Live Crown Ratio	<b>High</b> 80.79%
Crown Volume	<b>Very large</b>	3,741.52 m <sup>3</sup>		

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## Benefits

### Water management

Avoided Water Runoff	Very high	1.18 m <sup>3</sup> /yr	Evaporation	Very high	20.72 m <sup>3</sup> /yr
Potential Evapotranspiration	Very high	127.9 m <sup>3</sup> /yr	Transpiration	Very high	24.54 m <sup>3</sup> /yr
Water Intercepted	Very high	20.86 m <sup>3</sup> /yr			

### Ecosystem services

Carbon Storage	Very high	1,427.88 kg	CO Removal	High	4.11 g/yr
Carbon Sequestration	Very high	118.52 kg/yr	NO <sub>2</sub> Removal	High	16.22 g/yr
Oxygen Production	Very high	313.19 kg/yr	O <sub>3</sub> Removal	High	195.46 g/yr
PM <sub>2.5</sub> Removal	High	10.21 g/yr	SO <sub>2</sub> Removal	High	34.99 g/yr

### Economical value

Cavat Value **Very valuable** 18,670.9 £

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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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