

Tree Report of  
**20654**



Genus <b>Samanea</b>	Species <b>saman</b>	Common Name <b>Hujan-hujan</b>	Date of report <b>27th January, 2026</b>
Address <b>Jalan P11</b>	Position <b>2.951161950038667, 101.67537473085115</b>		



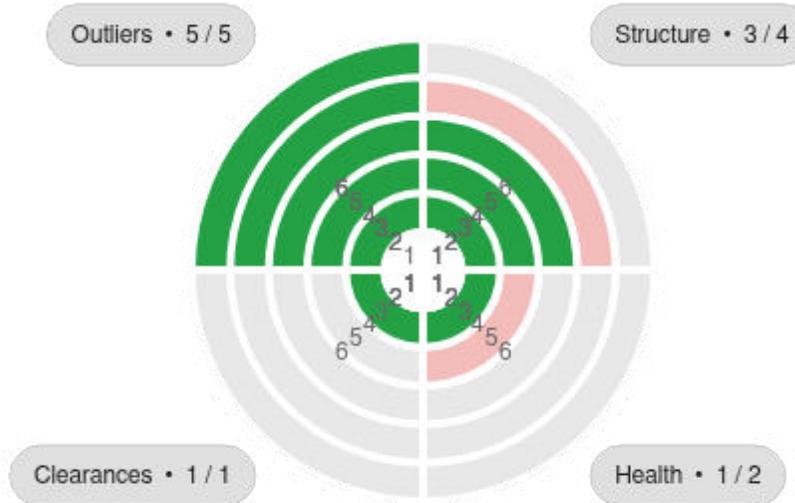
 Static map of tree location



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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	<b>Very high</b>	17.55 m	Crown Spread	<b>Very large</b>	27.75 m
Trunk Height	<b>High</b>	3.11 m	Tree Protection Zone	<b>Very large</b>	9.58 m
DBH	<b>Very large</b>	0.8 m	Root Protection Zone	<b>Very large</b>	14.37 m
Crown Height	<b>Very large</b>	15.3 m	Number Of Stems	<b>Low</b>	1

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## Structural assessment

### Stability

Slenderness	<span>Low</span>	21.99	Crown Lean Angle	<span>High</span>	8.03 °
Trunk Stability Index		1.56	Trunk Lean Angle	<span>Very high</span>	10.43 °
Critical Wind Speed	85 kmh				

### Limbs

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

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## Health and vitality

### Condition & Vigor

Dieback	<span>Low</span>	0.26%	Foliage Transparency	25.15%
Basal Area Increment	-	Leaf Area	<span>Very large</span>	2,736.45 m <sup>2</sup>
NDVI	-	Leaf Area Index	<span>Low</span>	5.04

### Foliage

Leaf Area Density	<span>Low</span>	0.58 m <sup>2</sup> /m <sup>3</sup>	Live Crown Ratio	<span>Very high</span>	87.19%
Crown Volume	<span>Very large</span>	4,794.83 m <sup>3</sup>			

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## Benefits

### Water management

Avoided Water Runoff	<span>Very high</span>	1.61 m <sup>3</sup> /yr	Evaporation	<span>Very high</span>	28.24 m <sup>3</sup> /yr
Potential Evapotranspiration	<span>Very high</span>	174.33 m <sup>3</sup> /yr	Transpiration	<span>Very high</span>	33.44 m <sup>3</sup> /yr
Water Intercepted	<span>Very high</span>	28.42 m <sup>3</sup> /yr			

### Ecosystem services

Carbon Storage	<span>Very high</span>	1,692.39 kg	CO Removal	<span>Medium</span>	3.33 g/yr
Carbon Sequestration	<span>Very high</span>	131.38 kg/yr	NO <sub>2</sub> Removal	<span>Medium</span>	13.16 g/yr
Oxygen Production	<span>Very high</span>	347.18 kg/yr	O <sub>3</sub> Removal	<span>Medium</span>	158.55 g/yr
PM <sub>2.5</sub> Removal	<span>Medium</span>	8.28 g/yr	SO <sub>2</sub> Removal	<span>Medium</span>	28.39 g/yr

### Economical value

Cavat Value	<span>Very valuable</span>	21,416.05 £
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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	<span>Low</span> 0
Trunk Diameter / Crown Volume	No		

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## Clearances

Building Clearance	<input type="radio"/> Not available
Road Clearance	<input checked="" type="radio"/> No issue
Wire Clearance	<input type="radio"/> Not available
Traffic Sign Clearance	<input type="radio"/> Not available
Visibility Clearance	<input type="radio"/> Not available

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