

Tree Report of  
**30405**



Genus  
**Khaya**

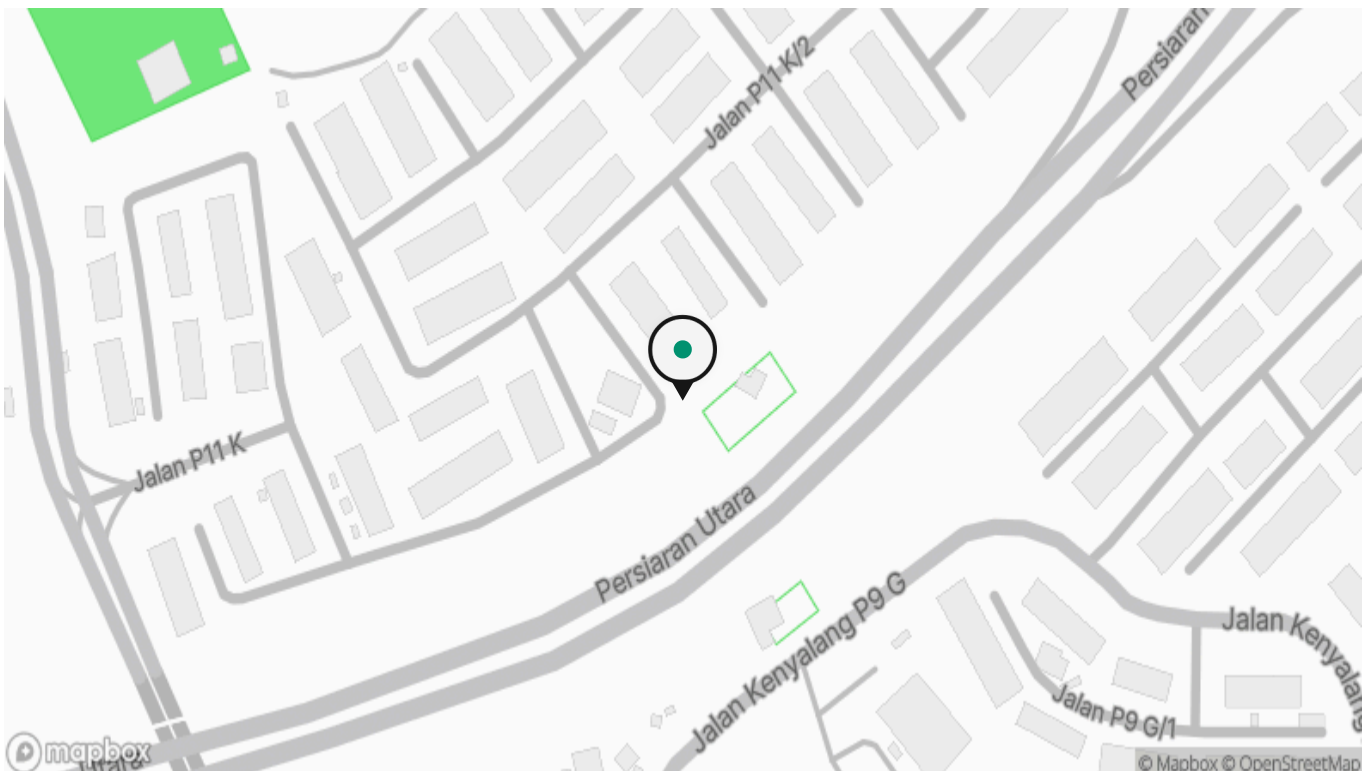
Species  
**senegalensis**

Common Name  
**Sengal khaya**

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

Address  
**Jalan P11 K/4**

Position  
**2.9480286646709715, 101.6797284937721**



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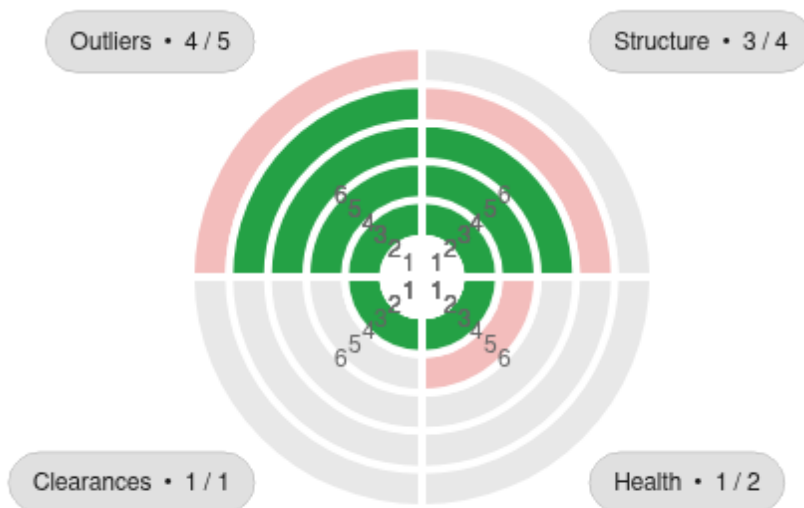
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## Structural assessment

- ✗ 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	23.77 m	Crown Spread	Very large	9.3 m
Trunk Height	Very high	3.59 m	Tree Protection Zone	Very large	6.81 m
DBH	Very large	0.57 m	Root Protection Zone	Very large	10.21 m
Crown Height	Very large	14.45 m	Number Of Stems	Low	1

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## Structural assessment

### Stability

Slenderness	High	41.92	Crown Lean Angle	Medium	4.03 °
Trunk Stability Index		0.84	Trunk Lean Angle	High	4.58 °
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%	Foliage Transparency	30.13%
Basal Area Increment	-	-	Leaf Area	<b>Very large</b> 1,020.67 m <sup>2</sup>
NDVI	-	-	Leaf Area Index	<b>Very high</b> 15.68

### Foliage

Leaf Area Density	<b>Medium</b>	1.55 m <sup>2</sup> /m <sup>3</sup>	Live Crown Ratio	<b>Medium</b> 60.8%
Crown Volume	<b>Very large</b>	660.71 m <sup>3</sup>		

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## Benefits

### Water management

Avoided Water Runoff	High	0.19 m <sup>3</sup> /yr	Evaporation	High	3.25 m <sup>3</sup> /yr
Potential Evapotranspiration	High	20.03 m <sup>3</sup> /yr	Transpiration	High	3.85 m <sup>3</sup> /yr
Water Intercepted	High	3.27 m <sup>3</sup> /yr			

### Ecosystem services

Carbon Storage	Very high	1,388.03 kg	CO Removal	Very high	7.26 g/yr
Carbon Sequestration	Very high	146.94 kg/yr	NO <sub>2</sub> Removal	Very high	28.67 g/yr
Oxygen Production	Very high	388.3 kg/yr	O <sub>3</sub> Removal	Very high	345.45 g/yr
PM <sub>2.5</sub> Removal	Very high	18.04 g/yr	SO <sub>2</sub> Removal	Very high	61.84 g/yr

### Economical value

Cavat Value **ery valuabl** 11,148.29 £

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## Outlier information

Height / Crown Volume	Yes	Trunk Diameter / Height	No
Height / Leaf Area	No	Trunk Diameter / Leaf Area	No
Leaf Area Density Outlier	No	Overall Outlier Index	Low 1
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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