

**PLANT MATERIALS USED FOR LANDSCAPING OF
'NATIONAL HIGHWAY 16' NEARBY SULLURPET,
NELLORE DT.**

Project work



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Introduction:

Landscaping refers to any activity that modifies the visible features of an area of land in an aesthetic manner to meet the needs of man. The landscaping of the National and State highways with trees is an important aspect of beautifying our countryside. Planting of trees on highways is necessary not only for the purpose of beautification but also for utility and necessity. The main purpose of roadside trees is to provide shade during the summer. For this purpose, evergreen trees with spreading crowns should be selected. For wider roads, double rows can be planted, with the outer rows having shade trees and the inner rows with flowering trees.

National Highway 16 (previously known as National Highway 5) is a major National Highway in India that runs along east coast of West Bengal, Odisha, Andhra Pradesh and Tamil Nadu.

We, third year students selected NH 16 (nearby Sullurpet, Nellore dt.) to study the plant materials used for landscaping of the national highway as part of our 6th semester project work. Under supervision of our Botany lecturer we studied about 5 km of NH 16 that extended near Sullurpet. In this study we recorded and identified the plant material used for landscaping of NH 16. The NH 16 is very wider and consists of six lanes. The road is divided into two parts with concrete divider (see fig 1). The outer row of each part planted with shade and flowering trees while the inner divider region planted with flowering shrubs.



Fig. 01

The plant species used for landscaping of NH 16 detailed as below:

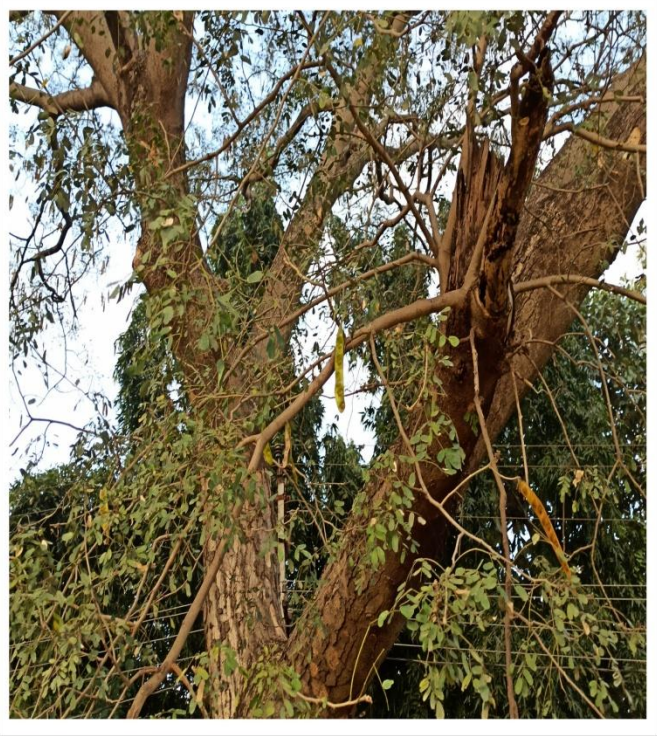
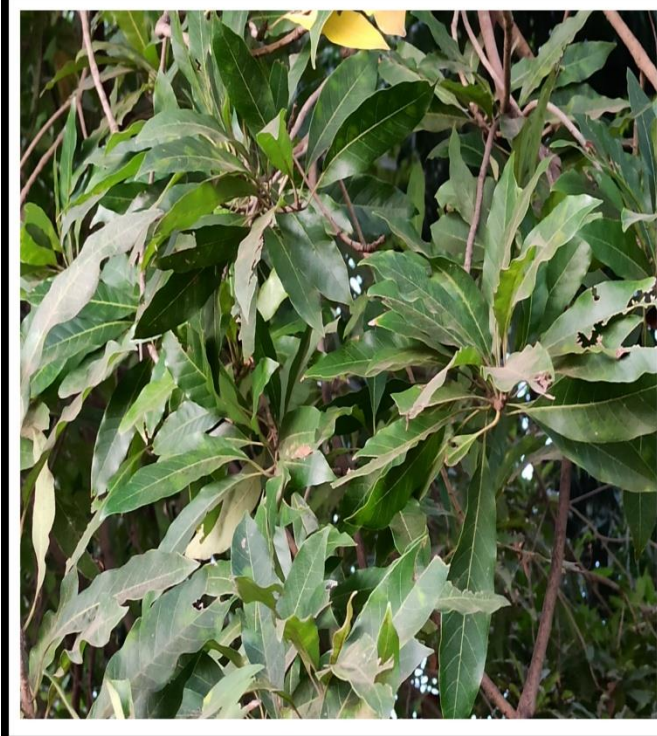
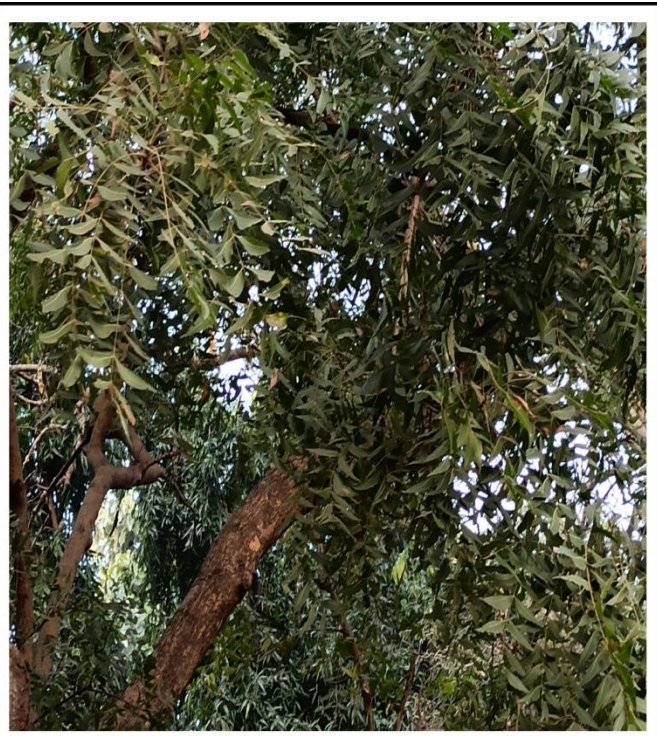
The shade and ornamental tree species planted in outer row of each part of the highway				
S.No	Botanical Name	Common Name	Family	Remarks
1.	<i>Albizia lebbek</i>	Siris Tree	Mimosaceae	It is a very fast-growing deciduous tree with an open, large, spreading crown; it usually reaches a height of 15 - 20 metres.
2.	<i>Azadirachta indica</i>	Neem	Meliaceae	Evergreen, medium sized foliage tree with white flowers during April to June.
3.	<i>Bauhinia variegata</i>	Mountain ebony	Fabaceae	Deciduous quick growing medium height tree having bi-lobed leaves and white with red purple markings flowers during spring to summer season.
4.	<i>Cassia siamia</i>	--	Caesalpiaceae	Deciduous slow growing medium height tree suited for dry localities with dull green large compound leaves.
5.	<i>Dalbergia sissoo</i>	Sissoo	Fabaceae	It is a deciduous medium-sized tree growing up to 30 metres tall. It is cultivated as a forest tree in southern Asia and tropical Africa, and for shade, windbreak, erosion control etc in some areas
6.	<i>Ficus religiosa</i>	Ravi	Moraceae	Sacred fig is an evergreen tree with a wide-spreading crown; it can grow 15 - 30 metres tall.
7.	<i>Grevillea robusta</i>	Silver oak	Proteaceae	<i>Grevillea robusta</i> is a fast growing evergreen tree with a single main trunk, growing to 5–40 m (20–100 ft) tall. The bark is dark grey and furrowed. Its leaves are fern-like.
8.	<i>Madhuca longifolia</i>	Mahua/ Ippa	Sapotaceae	Mahua is a medium-sized deciduous tree, which grows to a height of 16-20 m. The crown is rounded

				with multiple branches. Flowers are borne on green or pink, furry bunches, each bunch consisting of 12 fragrant cream-coloured flowers.
9.	<i>Melia azedarach</i>	Turaka vepa	Meliaceae	It is a fast-growing, deciduous tree that can reach a height of around 45 metres in closed, moist forests, though it is much smaller in the cooler and drier regions in which it is sometimes grown and where it is much more likely to be just 10 - 15 metres tall.
10.	<i>Millingtonia hortensis</i>	Tree jasmine	Bignoniaceae	The tree grows to height of between 18 and 25 metres and has a spread of 7 to 11 mtr. It reaches maturity between 6 and 8 years of age and lives for up to 40 years. It is a versatile tree which can grow in various soil types and climates with a preference for moist climates
11.	<i>Peltophorum pterocarpum</i>	Yellow gulmohar	Caesalpiniaceae	Evergreen, medium sized quick growing tree with umbrella shaped. Bright yellow flowers are borne in terminal racemes during April-June and again during September-November.
12.	<i>Pongamia pinnata</i>	Kanuga	Fabaceae	It is a fast-growing, medium-sized, evergreen or briefly deciduous, glabrous shrub or tree with a broad crown of spreading or drooping branches. It usually grows 15 - 25 metres tall
13.	<i>Tamarindus indica</i>	Tamarind	Caesalpiniaceae	It is a long lived and beautiful fruiting tree, growing up to 30 metres tall with a dense, spreading

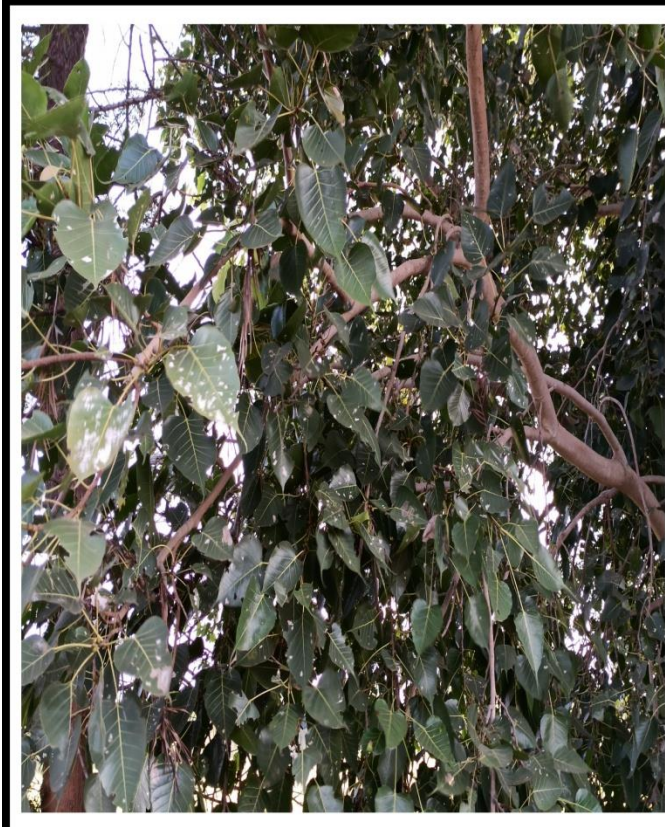
				crown. The tree has fragrant flowers and a feathery foliage that is usually evergreen but becomes deciduous in drier regions
14.	<i>Terminalia arjuna</i>	Maddi	Combretaceae	It is a very large evergreen tree that grows up to 30 metres tall, with occasional specimens up to 60 metres. Medicinal and timber yielding plant.
15.	<i>Thespesia populnea</i>	Portia tree	Malvaceae	Evergreen, medium-tall tree with light green heart shaped leaves and yellow flowers with red marks throughout the year.





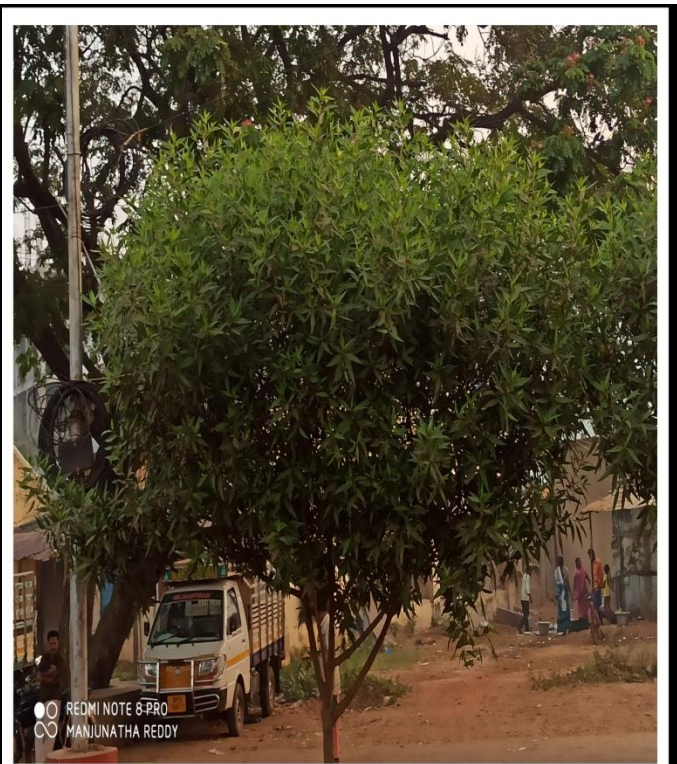








The flowering shrubs planted in divider region				
S.No	Botanical Name	Common Name	Family	Remarks
1.	<i>Bougainvillea spectabilis</i>	Bougainvillea	Nyctaginaceae	Climbing type thorny evergreen shrub valued for ornamental bracts with almost every colour throughout the year. Good for planting in tropical to sub-tropical areas.
2.	<i>Caesalpinia pulcherrima</i>	Peacock flower	Caesalpinaceae	Deciduous, medium-large shrub with redyellow flowers throughout the year and good for planting in sub-tropical areas.
3.	<i>Conocarpus erectus</i>		Combretaceae	It is an evergreen tree, usually growing 10 - 20 metres tall but exceptionally to 30 metres.
4.	<i>Nerium indicum</i>	Kasthuri	Apocynaceae	Evergreen, large shrub with dark green shining thick leaves and white, pink or red flowers borne in bunches almost throughout the year. It is good for planting in subtropical to sub-temperate areas.
5.	<i>Tecoma stans</i>	Yellow bells	Bignoniaceae	Medium sized deciduous shrub valued for yellow, bell shaped flowers appearing throughout the year. Good for growing sub-temperate to sub-tropical areas.





References:

1. **Introduction to Horticulture (Seventh Edition) by Dr. N. Kumar**
2. **https://agritech.tnau.ac.in/horticulture/horti_landscaping.html**
3. **Wikipedia**