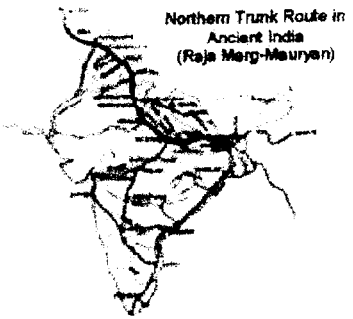


NATIONAL HIGHWAYS AUTHORITY OF INDIA

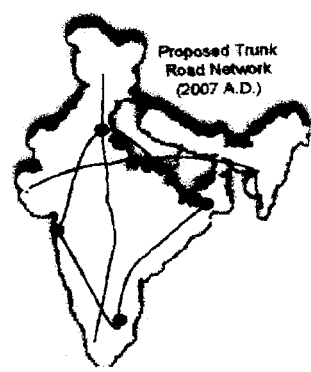
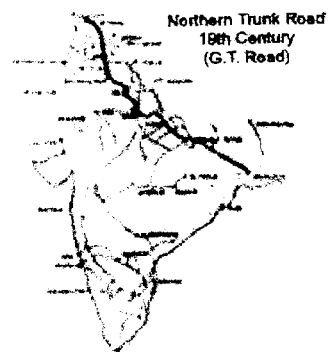
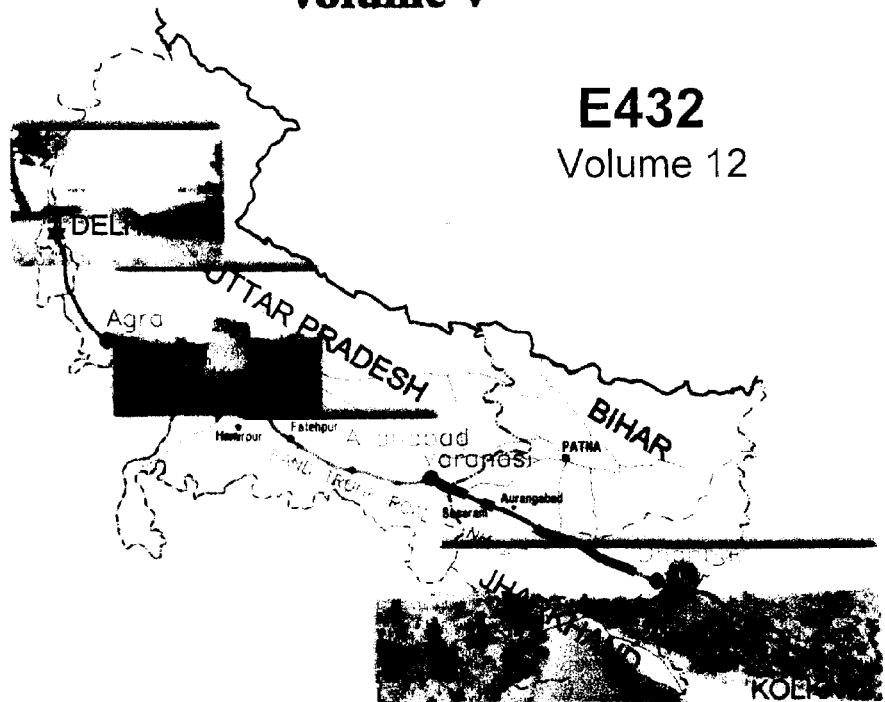
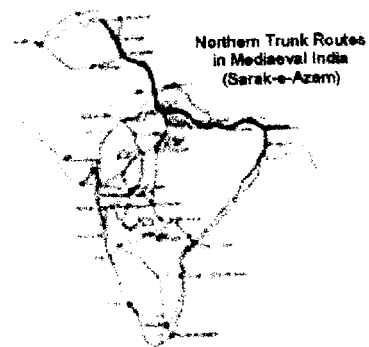


Grand Trunk Road Improvement Project

Road Landscape and Tree Transplantation Plan

Volume V

E432
Volume 12



FINAL REPORT

February 2001

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Lea Associates South Asia Pvt. Ltd.
New Delhi

The Independent Review of Environmental Assessment and Consolidation of Environmental Assessment & Management Plans and Resettlement Action Plans consists of:

VOLUME I: ENVIRONMENTAL IMPACT ASSESSMENT

VOLUME IA: ANNEXURES TO EIA

VOLUME II: INDEPENDENT REVIEW REPORT

VOLUME III: AIR QUALITY ASSESSMENT

VOLUME IV: NOISE QUALITY ASSESSMENT

VOLUME V: ROAD LANDSCAPE AND TREE TRANSPLANTATION PLAN

VOLUME VI: CONSTRUCTION PERIOD ROAD SAFETY PLAN

VOLUME VII: GAUTAM BUDDHA WILD LIFE SANCTUARY

PART – A
THE LANDSCAPE PLAN



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1.1 PROJECT CONTEXT

The Grand Trunk Road between Wagha border (Amritsar) and Kolkata traverses across the six Indian states of Punjab, Haryana, Delhi, Uttar Pradesh (UP), Bihar and West Bengal and it mainly falls in the fertile Indo-Gangetic plains. This highway has been the conduit of development for the past several centuries, and seven of the 28 metropolitan cities of the country are located along the highway. It has over 10% of the urbanisation within 10km influence area on either side. As a result of the intense developmental activities along the highway, this area (10km on either side) supports a population of over 40 million. The highway between Agra and Dhanbad passes through two of the most populous and the least developed states in India.

The stretch of NH-2, in GTRIP, Packages- I-A, I-B, I-C, II-B, IV-A, IV-C and V-B, are proposed to be strengthened and reinforced using various techniques of soft landscapes, principally through plantation of various types. A Road landscape Plan has been developed to enhance the visual quality of the road. The landscape treatments are not only to mitigate the visual impacts of the construction, but also to glorify the historic context of the road.

For this detailed landscape plan, the available RoWs and the typical sections applied in the road design were analyzed. The following table gives the percentage distribution of the available RoWs for all the packages.

Table 1 Distribution of Right of Way for all the Packages, 1988

Right of Way (RoW)	Length (km)	Percentage
Less than 20m	0.53	0.1%
20m to 25m	0.27	0.1%
25m to 30m	0.60	0.1%
30m to 35m	88.40	22.0%
35m to 40m	9.18	2.3%
40m to 45m	202.99	50.5%
45m to 50m	10.50	2.6%
50m to 55m	18.80	4.7%
55m to 60m	63.31	15.8%
60m to 65m	3.40	0.8%
More than 65m	3.60	0.9%
Total		100.00%

Source: Compiled From DPR of Packages IA, IB, IC, IIB, IVA, IVC, VB, NHAI.

Analysis of RoW along GT Road reveals a highly varied picture. Over 50% of the total length has an average RoW width of 40-45m (nearly 203km) followed by 22% with 30-35m RoW. A substantial portion of the length, i.e., about 17.5% has a liberal RoW of

about 60m or more. The space available in the RoW is one major guiding factor for different themes of landscaping applied in the entire corridor.

1.2 LANDSCAPE STRATEGY

1.2.1 Objectives

The landscaping along the GT road has been conceptualized keeping in mind a set of objectives to improve the overall visual and environmental quality of the project corridor.

The broader objectives of landscaping are:

- Climatic amelioration,
- Check in air & noise pollution,
- Check in soil erosion and reduce water logging,
- Moderating the effect of wind and incoming radiation, and
- Aesthetics, shade and ornamentation.

In addition to the specific aim of landscaping along the GT Road is -

- To enhance the visual experience of traveling along the GT Road;
- To define the RoW especially highlights sharp horizontal curves during night;
- To screen unsightly view from the road as well as the roadside communities from air & noise pollution;
- To compensate for the trees proposed to be cut;
- Selective plantation at bus stops/rest areas/truck lay bys etc, and
- To enhance sites of natural and cultural importance.

The major output of this landscaping exercise is to prepare a

- Road landscape plan for the GTRIP;
- Detail landscape sections for each package in GTRIP;
- Landscape designs for Major and Minor Junctions identified along the corridor; and
- Detail Landscape Development works proposed for the GTRIP.

1.2.2 Selection of Tree Species for Landscaping

Plantation is one of the most important constituents of soft landscaping. Trees, shrubs and climbers have been used to enhance the soft natural ambience against harsh elements in most of the enhancement schemes.

While selecting the species of trees for landscaping a great care has been taken to choose from the already existing indigenous species along the project corridor. The detail description identified species that are existing along the GT road are given in **Appendix 1**.

The selection of plant types and planting arrangement in the Landscape Plan has been based on the following considerations:

Shade

Large and spreading shade trees, with thick foliage are proposed in the innermost edge. This is meant for the slow moving traffic that shall ply along the paved shoulders of the proposed corridor.

Medium evergreen shade trees on footpaths in the urban sections have been provided. Evergreen trees do not have substantial leaf fall, which avoids the nuisance of clogging of lined drains.

Screening

Plantation of pollution hardy shrub dwarf species in the median to prevent glare from the vehicles moving in opposite direction during night.

A mix of medium and large trees along roadside to screen the evening glare for the traffic moving towards west-northwest.

Screen plantation as a visual barrier in schools, hospitals, residential colonies, etc.

Aesthetics

Provision of flowering trees in the urban sections and major crossings

Provision of flowering shrubs in the median

Softening of vertical surfaces of the retaining walls of grade separators and raised sections of the carriageway by climbers.

Fruit, Fodder and Fuel

Provision of trees that have economic importance where space is available between the shade trees and the edge of the RoW for the local village people.

Natural Reserves and asset

The economic trees may be harvested on maturity and generate revenue for the body responsible for tree plantation and maintenance

1.3 CONCEPT OF PLANTATION FOR DIFFERENT AREAS

1.3.1 Rural areas

Common plants generally recommended for national and state highways passing through rural areas, are Amaltas (*Cassia fistula*) alternating with shade trees like, *Azadirachta indica*, *Tamarindus indica*. Tall trees like *Eucalyptus* are not suitable as

they interfere with electric and telephone lines and moreover are safety hazards on the road. Medium trees like, *Acacia auriculiformis*, *Gravillea robusta*, are ideal for screening. In a tropical country like India, where the temperature during summer months may rise up to a maximum of 46°C or more, the 'shade' is of greatest value to the travelers. Thorny trees like *Acacia Arabica* and *Ber (Zizyphus jujuba)* are avoided, as these create a nuisance for the pneumatic tyre of motor vehicles.

1.3.2 Urban Areas

Near market places and congested areas, the trees known for behaving as 'pollution sink' are proposed. Though, trees in general absorb the pollutants, filter the air from pollutants, and act as noise barrier, but some trees like *Neem (Azadirachta Indica)*, *Mango (Mangifera Indica)*, *Paker (Ficus Infectoria)*, *Shisham (Dalbergia Sisso)*, *Imli (Tamarindus Indica)* can do it in a better way.

Near sensitive areas like schools and hospitals, tall trees with thick canopies can create a wind screen through which the air can be filtered and the noise levels be considerably reduced. Some such trees are *Acacia auriculiformis* and *Gravillea robusta*. Tall shrubs like *Casia biflora*, *hamelia patens* etc are provided at the sensitive noise receptors for maximum possible screening.

1.3.3 Edges Along Clear Zone

The clear zone along the Grand Trunk Road is of varied nature depending upon the different embankment heights. Some areas have steep gradients that need intensive stone pitching treatment. In order to increase the structural stability of this type of treatments, plant materials such as shrubs and ground covers, can be introduced in the interstices. They can be used with emphasis on their rooting characteristics, so that they help in binding the stone pitching treatments. In areas of high water table or water logging, special emphasis has been given on the selection of plant materials that can survive in moist conditions.

1.3.4 Water Logged Areas

Waterlogged areas along the road are generally a result of inadequate drainage conditions, the road acting as a bund and contributing to water logging, high water table of the region or the Low lying nature of the terrain itself.

Water logged areas are generally associated with larger water bodies, serving as waterfowl habitat and often, scenic spots with religious and recreational setting. One of the common situations met for roadside plantation is the water logging since roadsides have been dug for excavating the earth for putting on road edge. This type of situation is common throughout the plains in the country. Planting of such sites after proper drainage is now a common practice. *Eucalyptus* is usually recommended for waterlogged areas.

1.3.5 Protected Forest / Reserved Forest Areas

The design has been worked out to minimise the impacts on the forest stretches along the proposed alignment. The acquisition of 0.5 ha of forest land in Package I A and 3.85 ha of forest land in Package IV C has been unavoidable and the clearance of these forests are being taken up in accordance to the GoI requirements.

For stretches of the corridor through the reserved / protected areas, the contractor shall ensure that the construction activities shall be limited to the proposed RoW, so as to avoid any impacts on the vegetation within the forest areas.

Landscape plans have been prepared for the entire length of the project corridor. Along the sections passing through protected / reserved forests, dense plantation has been proposed within the RoW. Apart from these, if the forest department wishes to establish a buffer¹, NHA as part of the project shall contribute a portion of the estimated budget for the establishing a vegetative buffer between the forest and the highway. All species proposed in the reserved forest areas shall be native of the forest area. In package V-B, where the corridor passes through the Gautam Buddha Wildlife Sanctuary, Sal trees have been planted along the five flowing water sources, for a distance of 100m on each side of the water channel on both sides of the NH.

1.3.6 Taj Trapezium Zone

Package I stretch of the of the project road traverses through the Taj Trapezium. To minimize any likely impact due to air pollution on the Taj Mahal an additional belt of 10m widths has been acquired on either sides of the project road to plant pollution resistant trees. The additional width shall facilitate additional 2- 3 rows of pollution resistant trees, which shall form a green belt all along the corridor. Starting from Agra in Package I, species to be planted in the section of Taj Trapezium Zone in Package I have been considered as per the recommendations of the two studies carried out in the region. These recommendations have been adopted for all of Package I depending up on the availability of space on the roadsides. The pollution resistant species included in the Landscape plan are trees like Azadirachta indica, Tamarandas indica, Madhuca indica, Magnifera indica, etc which are also locally significant species in this area.

1.4 ROAD SIDE LANDSCAPE

1.4.1 Criteria for Categorisation of Landscape Zones/Sections

The road landscape has been developed envisaging a holistic approach to the entire stretch. A concept has been evolved so as to maintain visual characteristics and uniformity in terms of landscape along the stretch. In the absence of uniform land availability for the plantations, different schemes have been worked out in tune with the

¹ Along the Gautama Buddha Wildlife Sanctuary, a strip of 400m on either side of the highway has been demarcated by the Bihar State Forest Department as a buffer zone. Such buffer zones can be worked out at other forest locations along the corridor. This buffer shall effectively minimize any wildlife vehicle conflicts.

local variations in the design. To achieve this, the entire stretch of the project corridor has been divided into homogenous landscape sections based on similarity in terms of soil conditions, climate (temperature and rainfall) and topography. A study on the local flora and vegetative cover native to these sections has been carried out as part of the field surveys to enable a choice of the suitable species for that particular section.

In order to identify sections with similar natural factors the entire project corridor was divided into 13 homogeneous stretches with similar climatic (rainfall and temperature), soil and topographic characteristics, as shown in the following table:

Table 2 Criteria for Road Landscape Sections Along the Project Corridor

S. No.	Package	Chainage	Distance	Rainfall	Elevation	Local soil type
1	IA	199.6-250	51	600-700mm	80-120m	Alluvial; Fertile
2	IB	250-307.5	57	700-800mm	80-120m	Alluvial; Fertile
3	IC	321 - 393	72	800-900mm	80-120m	Alluvial; Fertile
4	IIB1	471-17(A)	35	900-1000mm	80-120m	Alluvial; Fertile
5	IIB2	17-39	22	900-1000mm	80-120m	Alluvial; Fertile
6	IV A	0-65	65	1000-1050mm	80-120m	Then Alluvial; rocky; barren stretches; silty clay
7	IV C1	111.2-132	21	1000-1050mm	80-120m	Clayey; Fertile
8	IV C2	132-140	8	1000-1050mm	80-120m	Deep alluvial; Fertile
9	V B1	240-252	12	1200-1400mm	150-300m	Thin alluvium
10	V B2	252-260	8	1200-1400mm	300-400m	Thin alluvium
11	V B3	260-270	10	1200-1400mm	300-400m	Thin alluvium
12	V B4	270-286	16	1200-1400mm	200-300m	Thin alluvium
13	V B5	286-320.5	36	1200-1400mm	300-450m	Thin topsoil

These stretches were further divided into 40 sections based on the adjacent landuse of rural or urban stretches. In each of these sections different types of typical road design sections are applied in all the packages, for which, according to the ROW available, the plantation is proposed on either side at the particular Chainages.

Table 3 Existing Cross Section details in GTRIP

Package	Carriageway Width (m)	Paved Shoulder Width (m)	Earthen Shoulder Width (m)	Embankment Height (m) Typical and maximum values
I-A	7	0 to 1.5	1 to 2.5	6-2.5
I-B	7	0	2 to 2.5	6-2.5
I-C	7	0	2.5	6-2.5
II-B	7	Unpaved 2.5	1	10. 12
IV-A	7	1.5	0.5	15.1
IV-C	7	1.5	0.5	1.5 9.5

V-B	7	1.5 (partly)	1.0-2.5	2.0, 8.0
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Source: Compiled From DPR of Packages IA, IB, IC, IIB, IVA, IVC, VB, NHAI

The planting type has been decided based on their requirement and feasibility at various sites along the project sub packages. Physical growth characteristics of trees, like form and shape, foliage and rooting characteristics, growth rate, canopy type and branching pattern were the major criteria in the selection of plantation type and density.

1.4.2 Plantation in Innermost Row

The innermost row of trees primarily consists of shade trees, at a spacing of 12m C/C. These plants are the locally significant trees and are mostly evergreen in nature, which ensures no substantial leaf fall in winters preventing the problem of blockage of roadside drains.

The following table provides the list of trees proposed in the innermost rows:

Table 4 Recommended Species in the inner row

Soil	Species	
Loamy	Local Name	Botanical Name
	Peepal	Ficus religiosa
	Paker	Ficus infectoria
	Mahua	Madhuca indica
	Mango	Mangifera indica
	Neem	Azadirachta indica
	Imli	Tamarindus indica
	Jamun	Syzynium cuminii
	Shisam	Dalbergia sissoo
Sandy	Shisam	Dalbergia sissoo
Alkaline soils[usar]	Neem	Azadirachta indica [at ph up to 8.5]
	Kanji	Pongamia pinnata (upto 9.0 p h)
	Arjun	Terminalia arjuna
Water logged area	Arjun	Terminalia arjuna

Source: Tree Plantation Strategy, TNHP

1.4.3 Plantation in Outer Rows

The outer rows are planted with a combination of ornamental, shade and screening trees. The number of outer rows and the repetition of the trees and their type varies with the landscape section, the TCS and the space available in the RoW for tree plantation. In many of the urban areas there is no space available for Outer rows, even

the inner rows are planted at the footpaths of the service roads. The spacing in the inner rows is kept at 3m C/C, to provide maximum possible screening effect.

Table 5 Recommended Species in the outer rows

S.NO.	SOIL	BOTANICAL NAME	LOCAL NAME	FLOWERING MONTH/COLOUR
Second row				
	Loamy	Delonix regia	Gulmohar	May/Yellow
		Cassia fistula	Amaltas	May/Yellow
		Bauhinia sps.	Kachnar	Feb-Mar/Pink
		Cassia nodosa		May-June/Pink
		Jacaranda mimosaeifolia		April/Blue
		Gravillea robusta		April/Yellow
		Peltophorum ferrugineum		Oct./Yellow
		Lagerstomia flosreginea	Jarul	May/Mauve
	Water logged condition	Terminalia arjuna	Arjun	
		Syzynium cuminii	Jamun	
		Cordia dicotma	Lasoda	
	Alkaline soils [Usar]	Terminalia arjuna	Arjun	
		Pongamia pinnata	Kanji	
		Albizzia lebbek	Kala Siris	
Third row				
	Loamy	Malia azadiracta	Bakain	
		Pongamia pinnata	Kanji	
		Acacia auriculiformis		
		Albizzia lebbek	Kala siris	
		Dalbergia sissoo	Shisham	
		Hetrophregma adenofillum		
		Terminalia arjuna	Arjuna	
Source: Tree Plantation Strategy. TNHP				

1.4.4 Plantation on Medians

The shrubs planted in the median are of low or medium height for prevention of the headlight glare. One to two rows of flowering shrubs have been provided according to the varying width of the median in different sections. In sections where the median width is less than 1.5m only grasses turf is proposed. The species proposed for the purpose for turfing are Cynodon dactylon, Cythoclinc perpurea, Solanum nigrum, and Xanthium strumerium. The species proposed in the median are mainly bougainvillea and Thavetia nerifolia (Kaner).

Table 6 Recommended Species on the median

S. NO	SHRUBS/ LOCAL NAME	BOTANICAL NAME
1	Kaner	Thavetia nerifolia
2	Chandini	Ervatamia divericala
3	Bougainvillea	Bougainvillea
4	Cassia glauca	Cassia glauca
5	Chameli	Jouminum grandiflorum

Source: Tree Plantation Strategy, TNHP

1.4.5 Species Proposed in each Section

The following table shows the species proposed for plantation in the inner row, outer rows, and the median according to the typical cross section available at particular chainage and the landscape zone, in each of the packages:

Table 7 Proposed Landscape Sections Along the Project Corridor

PKG	Chainage	Length (km)	Urban / Rural	Section type	Plantation		
					Inner row	Outer rows	Median
IA	199.6-205.51	6	U	TCS 1	Azadirachta indica	-	Turfing
			U	TCS 2	-	-	Thavetia nerifolia
			R	TCS 3	Mangifera indica	Cassia fistula, Gravellia robusta	Bougainvillea
			R	TCS 4	-	-	Bougainvillea
IA	205.51-231.66	25	R	TCS 5	Azadirachta indica	Lagerstromia flosreginea	Bouganvillae
			U	TCS 6	Azadirachta indica		Bouganvillae
			R	TCS 7	Azadirachta indica	Lagerstromia flosreginea	Bouganvillae
			U	TCS 8	-		-
			U	TCS 9	-		Turfing
			R	TCS 10	Azadirachta indica	Lagerstromia flosreginea	Bouganvillae
			R	TCS 11	Azadirachta indica	Lagerstromia flosreginea	Bouganvillae
IA	231.66-234.96	3	R	TCS 12	Mangifera indica	Ployalthia augustofolia	Bouganvillae
IA	234.96-245	10.04	U	TCS 13, 14, 15	-	-	-

PKG	Chainage	Length (km)	Urban / Rural	Section type	Plantation		
					Inner row	Outer rows	Median
IA (IB)	245-257	12		TCS 10	Azadirachta indica	Lagerstromia flosreginea	Bouganvillae
			R	TCS 1 (IA)	Azadirachta indica	-	Turf
IB	257-262	5	U	TCS 2	Madhuca indica	Albizzia lebbek	Turf
IB	262-269.9	8	R	TCS 1	Azadirachta indica	Lagerstroemia flosreginea	Bouganvillae
IB	269.9-278.7	9	R	TCS 3	Mangifera indica	Albizzia lebbek	Bouganvillae
IB	278.7-282.75	4	R	TCS 1	Azadirachta indica	Lagerstroemia flosreginea	Bouganvillae
IB	282.75-284.05	1.2	R	TCS 3	Mangifera indica	Albizzia lebbek	Bouganvillae
IB	284.05-307.5	23.5	R	TCS 1	Azadirachta indica	Lagerstroemia flosreginea	Bouganvillae
			U	TCS 4	-	-	Turf
IC	321-326.1	5	U	TCS 1	-	-	Turf
			R	TCS 2	Madhuca indica	Cassia nodosa	Bouganvillae
IC	326.1-327.25	1	R	TCS 3	Mangifera indica	Terminalia arjuna	Bouganvillae
IC	327.25-336.3	9	U	TCS 1	-	-	Turf
			R	TCS 2	Madhuca indica	Cassia nodosa	Bouganvillae
			R	TCS 3	Azadirachta indica	Terminalia arjuna	Bouganvillae
IC	336.3-341.6	5	U	TCS 1	-	-	Bouganvillae Alternate turf
			R	TCS 2	Madhuca indica	Cassia nodosa	Bouganvillae
			R	TCS 3	Mangifera indica	Terminalia arjuna	Bouganvillae
IC	341.6-342.5	0.7	R	TCS 2	Madhuca indica	Cassia nodosa	Bouganvillae
IC	342.3-350.75	8	R	TCS 3	Azadirachta indica	Terminalia arjuna	Bouganvillae
IC	350.75-353.0	2.2	R	TCS 2	Madhuca indica	Cassia nodosa	Bouganvillae

PKG	Chainage	Length (km)	Urban / Rural	Section type	Plantation		
					Inner row	Outer rows	Median
			R	TCS 3	Mangifera indica	Terminalia arjuna	Bougainvillae
IC	353-359.1	6	U	TCS 3	Syzynium cuminii	Lagerstromia flosreginea	Bougainvillae
IC	359.1-360	1	R	TCS 2	Madhuca indica	Cassia nodosa	Bougainvillae
			R	TCS 3	Azadirachta indica	Terminalia arjuna	Bougainvillae
IC	360.0-366.9	7	R	TCS 3	Syzynium cuminii	Lagerstromia flosreginea	Bougainvillae
IC	366.9-377.5	10.5	U	TCS 1			Turf
			R	TCS 2	Madhuca indica	Cassia nodosa	Bougainvillae
			R	TCS 3	Azadirachta indica	Terminalia arjuna	Bougainvillae
			R	TCS 4	Syzynium cuminii	Lagerstromia flosreginea	Bougainvillae
IC	377.5-383.65	6.5	U	TCS 1			Turf
IC	383.65-393	9.4	R	TCS 2	Madhuca indica	Cassia nodosa	Bougainvillae
			R	TCS 4	Syzynium cuminii	Lagerstromia flosreginea	Bougainvillae
IIB	470.0-473.6	33.8	U	III-D	Syzynium cuminii	Gravillea robusta Peltorum ferrugineum	Turf
			R	V	Syzynium cuminii	Gravillea robusta Peltorum ferrugineum	Turf
			R	IV-A	Syzynium cuminii	Gravillea robusta Peltorum ferrugineum	Turf
IIB	13.8-17.15	3.35	R	I	Tamarindus indica	Lagerstroemia flosreginea	Bougainvillae
			R	VI	Tamarindus indica	Lagerstroemia flosreginea	Bougainvillae
			R	I	Tamarindus indica	Lagerstroemia flosreginea	Bougainvillae
IIB	17.15-36.0	18.85	R	III-D	Syzynium cuminii	Gravillea robusta Peltorum ferrugineum	Turf
			R	I	Tamarindus indica	Lagerstroemia flosreginea	Bougainvillae

PKG	Chainage	Length (km)	Urban / Rural	Section type	Plantation		
					Inner row	Outer rows	Median
			R	II	Dalbergia sisso	Albizzia lebbek	Bougainvillae
			R	III-C	Syzynium cuminii	Gravillea robusta Peltorum ferrugineum	Bougainvillae
IV A	0-32	39.4	R	BP120	Syzynium cuminii	Cassia nodosa	Turf
			R	1RA	Azadirachta Indica	Bahunia perpuria	Bougainvillae
			U	1UA	Tamarindas Indica	Bahunia perpuria	Bougainvillae
			U	BP500	Syzynium cuminii	Cassia nodosa	Bougainvillae
IV A	32-42	10	R	1RA	Azadirachta Indica	Lagerstroemia flosreginea	Bougainvillae
IV A	42-49	8	R	1RA	Syzynium cuminii	Cassia nodosa	Bougainvillae
			R	1RB	Syzynium cuminii	Cassia nodosa	Turf
			R	1RC	Syzynium cuminii	Cassia nodosa	Turf
			U	1UC	Syzynium cuminii	Cassia nodosa	Bougainvillae
IV A	49-65	13	R	1RA	Azadirachta Indica	Lagerstroemia flosreginea	Bougainvillae
IV C	110-131	20	R	1RA	Tamarindas Indica	Albizzia lebbek Acacia auriculiformis	Bougainvillae
			U	1UD	Tamarindas indica	-	Turf
			U	1UA	Tamarindas indica	Gravillea robusta	Turf
IV C	131-140	9	R	1RA	Azadirachta indica	-	Bougainvillae
			R	1RC	Tamarindas indica	Lagerstroemia Flosreginea Terminalia arjuna	Turf
			U	1UA	Tamarindas indica	-	Bougainvillae
V-B	240-242	2	R	TCS II	Dalbergia sisso	Terminalia Arjuna	Bougainvillae
V-B	242-260	18	R	TCS II	Dalbergia sisso	Albizzia lebbek	Bougainvillae
V-B	260-280	20	R	TCS II	Dalbergia sisso	-	Bougainvillae
			SU	TCS IV	Dalbergia sisso	-	Bougainvillae
V-B	280-286.3	6.3	R	TCS II	Dalbergia sisso	Albizzia lebbek	Bougainvillae
V-B	286.3-310	31.7	R	TCS-II	Dalbergia sisso	-	Bougainvillae
			SU	TCS-IV	Dalbergia sisso	-	Bougainvillae
V-B	318-320.5	2.5	R	TCS-II	Dalbergia sisso	Terminalia arjuna	Bougainvillae

1.5 PACKAGE-WISE LANDSCAPE SECTIONS

On basis of the above-mentioned table of road landscape sections and species proposed for each, the detail sections are worked out for each of the packages. The available ROW, the typical cross-section and the north, south or concentric widening options have been used to calculate the space available for plantation in the ROW at each typical section being followed. The package wise description of the plantation is as follows:

1.5.1 Package I-A

Package I-A starts from Chainage 199.66 in the urban fringe of Agra City, and ends at Ch. 250.5. The package has been divided lengthwise into six landscape sections that include both urban and rural stretches. In these six sections, there are 15 typical cross sections being followed (the first 22 km the road is being six-laned) for each of which the detailed landscaping has been proposed. The entire package lies in the sensitive area of Taj Trapezium Zone. A 10m wide strip has been acquired in addition to the existing RoW, on the North side of the road for planting extra trees in the TTZ.

The following table gives the total number of trees and shrubs of each species proposed for the this package:

Table 8 Proposed Roadside Tree Plantation for Package I-A

TCS	Trees	No.	Shrubs	No.	Turfing Area (M ²)
1&9					3000
2			Thavetia nerifolia	1853	
			Total	1853	
3	Mangifera indica	162	Bouganvillae	647	
	Gravillea robusta	970	Total	647	
	Cassia fistula	323			
	Total	1455			
4			Thavetia nerifolia	647	
				647	
5	Mangifera indica	225	Bouganvillae	900	
	Gravillea robusta	1350	Total	900	
	Lagerstromea flosreginea	450			
	Total	2025			
6a	Azadirachta indica	167	Thavetia nerifolia	667	
	Gravillea robusta	667	Total	667	
	Total	833			

TCS	Trees	No.	Shrubs	No.	Turfing Area (M ²)
6b	Azadirachta indica	167	Thavetia.nerifolia	1333	
	Gravillea robusta	1333	Total	1333	
	Cassia fistula	667			
	Total	2157			
7	Azadirachta indica	225	Bouganvillae	1800	
	Gravillea robusta	2700	Total	1800	
	Lagerstromea flosreginea	1800			
	Total	4725			
8	Madhuca indica	2833			
	Total	2833			
10	Azadirachta indica	1017	Bouganvillae	4067	
	Gravillea robusta	8050	Total	4067	
	Hemelia patens	83			
	Lagerstromea flosreginea	1525			
	Total	10675			
11	Azadirachta indica	467	Bouganvillae	1867	
	Gravillea robusta	2800	Total	1867	
	Lagerstromea flosreginea	2800			
	Total	6067			
12	Mangifera indica	550	Bouganvillae	2200	
	Gravillea robusta	3300	Total	2200	
	Cassia fistula	3300			
	Total	7150			
Total	Azadirachta indica	2042	Thavetia nerifolia	1853	3000
	Gravillea robusta	21170	Bouganvillae	14127	
	Hemelia patens	83			
	Lagerstromea flosreginea	6575			
	Cassia fistula	4290			
	Mangifera indica	937			
	Madhuca indica	2833			
Grand Total		37929		15980	3000

The landscape drawings and the number of trees of different species in each of the typical cross sections for Package I-A are given in **Appendix 2**.

1.5.2 Package IB

This package has been categorized into six sub-sections on the basis of Urban and Rural land-use. The flora has been decided in accordance with the general approach to landscaping taken for the entire stretch. Shade and ornamental trees are proposed in the first or the innermost row for Urban and rural areas respectively.

The stretch in this package lies in the urban area of Shikohabad from km.257 to km.262. Apart from the RoW available, an extra strip of 10m strip of land is being acquired from the north side. The rural cross-sections from km.262-284.05 lie alternately in TCS1 and TCS3. The landscape plans along this stretch alternate according to the typical cross-sections. Ornamental trees of species *Albizia lebbek* & *Lagerstroemia flosreginea* have been proposed the first row. Shade and fruit bearing trees of species *Azadirachta indica* and *Mangifera indica* are to be planted in the inner rows.

The following table gives the total number of trees of each species proposed for the this package:

Table 9 Proposed Roadside Tree Plantation for Package I-B

TCS	Trees	No.	Shrubs	No.	Turfing Area (m ²)
1a-a	<i>Azadirachta indica</i>	1233	<i>Bougainvilleae</i>	4933	
	<i>Gravillea robusta</i>	12250	Total	4933	
	<i>Lagerstroemia flosreginea</i>	4933			
	<i>Hamelia patens</i>	83			
	Total	18500			
1a-b	<i>Azadirachta indica</i>	7750	<i>Bougainvilleae</i>	31000	
	<i>Gravillea robusta</i>	30583	Total	31000	
	<i>Lagerstroemia flosreginea</i>	15500			
	<i>Hamelia patens</i>	417			
	Total	54250			
2			<i>Thavetia nerifolia</i>	3333	
			Total	3333	
3-a	<i>Mangifera indica</i>	1550	<i>Bougainvilleae</i>	6200	
	<i>Gravillea Robusta</i>	24800	Total	6200	
	<i>Cassia fistula</i>	15500			
		41850			
3-b	<i>Mangifera indica</i>	300	<i>Bougainvilleae</i>	1200	
	<i>Terminalia arjuna</i>	1200	Total	1200	

TCS	Trees	No.	Shrubs	No.	Turfing Area (m ²)
	Albezzia Lebbek	300			
	Gravillea robusta	300			
	Total	2100			
4			Thavetia nerifolia	3800	
			Total	3800	
Total	Azadirachta indica	8983	Bouganvillae	43333	
	Albezzia Lebbek	300	Thavetia nerifolia	7133	
	Gravillea robusta	67933			
	Largerstroemea flosreginea	20433			
	Hamelia patens	500			
	Magnifera indica	1850			
	Cassia fistula	15500			
	Terminalia arjuna	1200			
Grand Total		116700		50466	

The landscape drawings and the number of trees of different species in each of the typical cross sections for Package I-B are given in **Appendix 3**.

1.5.3 Package IC

Package IC has been divided into 13 subsections based on Urban and Rural land-use of the stretch. In the entire package a 10m wide strip of land has been acquired on the south side for the purpose of plantation.

The land-use along this package of the GTRIP is mainly rural in nature with a few stretches of urban areas where the cross section followed is TCS1. *Bahunia perpuria*, which is a shade tree, is proposed in these stretches. The rest of the package that passes through rural countryside mainly follows TCS2&3. TCS3 is applied in realigned or bypassed sections where on an average the available ROW is 60m and the scope for plantation increases tremendously. Guidelines for tree plantation mentioned earlier have been followed in this package too.

The following table gives the total number of trees of each species proposed for the this package:

Table 10 Proposed Roadside Tree Plantation for Package I-C

TCS	Trees	No.	Shrubs	No.	Turfing Area (m ²)
1a			Cassia biflora	167	14400
			Total	167	
2a	Madhuca indica	1698	Bouganvillae	6793	
	Gravillea robusta	10190	Total	6793	
	Total	11888			
2b	Madhuca indica	975	Bouganvillae	7800	
	Gravillea robusta	7800	Total	7800	
	Total	8775			
2c	Madhuca indica	200	Bouganvillae	800	
	Gravillea robusta	1200	Total	800	
	Cassia Nodosa	800			
	Total	2200			
2d	Madhuca indica	1067	Bouganvillae	4267	
	Gravillea robusta	6400	Total	4267	
	Cassia Nodosa	2133			
	Total	9600			
2e	Madhuca indica	167	Bouganvillae	667	
	Gravillea robusta	1333	Total	667	
	Cassia Nodosa	667			
	Total	2167			
3a	Mangifera indica	50	Bouganvillae	400	
	Acacia auriculiformis	400	Total	400	
	Total	450			
3b	Mangifera indica	3785	Bouganvillae	15140	
	Lagerstromia flosreginea	22710	Total	15140	
	Terminalia Arjuna	15140			
	Acacia auriculiformis	15140			
	Total	56775			
4a	Syzynium cumini	75	Bouganvillae	600	
	Lagerstromia flosreginea	300	Total	600	
	Acacia auriculiformis	300			
	Total	675			
4b	Syzynium cumini	158	Bouganvillae	1267	

TCS	Trees	No.	Shrubs	No.	Turfing Area (m ²)
	Terminalia arjuna	633	Total	1267	
	Lagerstromia flosreginea	633			
	Acacia auriculiformis	1267			
	Total	2692			
Total	Acacia auriculiformis	17107	Bouganvillae	37733	14400
	Cassia Nodosa	3600	Cassia biflora	167	
	Gravillea robusta	26923			
	Lagerstromia flosreginea	23643			
	Madhuca indica	4107			
	Mangifera indica	3835			
	Syzynium cumini	233			
	Terminalia arjuna	15773			
Grand Total		95222		37900	14400

The landscape drawings and the number of trees of different species in each of the typical cross sections for Package I-C are given in **Appendix 4**.

1.5.4 Package IIB

Package II-B has been divided into 16 sub-sections based on the land-use characteristics. The cross-section of a substantial length of the corridor is a raised carriageway on the Kanpur bypass. A stretch of 18km on the bypass from km: 473.8-491.7 has an 18m wide reserve land on the right side that has been extensively planted with trees to encourage vegetative growth and dissuade encroachment in the right of way.

The rest of the stretches on the corridor are rural and plantation has been proposed considering the available space in the ROW.

The following table gives the total number of trees of each species proposed for the this package:

Table 11 Proposed Road side Tree Plantation for Package II-B

TCS	Trees	No.	Shrubs	No.	Turfing Area (m ²)
III D - a	Syzynium cumini	167			2400
	Acacia auriculiformis	1333			
	Peltoforum ferrugineum	1333			
	Total	2833			
III D - b	Syzynium cumini	33			480

TCS	Trees	No.	Shrubs	No.	Turfing Area (m ²)
	Acacia auriculiformis	267			
	Peltoforum ferrugineum	267			
	Total	567			
III D - c	Syzynium cumini	225			1620
	Acacia auriculiformis	900			
	Total	1125			
IV A-a	Syzynium cumini	783			5640
	Total	783			
IV A-b	Syzynium cumini	83			600
	Acacia auriculiformis	333			
	Total	417			
II A	Dalbergia sisso	33	Bouganvillae	133	
	Albezzia lebbek	267	Total	133	
	Total	300			
II B	Dalbergia sisso	825	Bouganvillae	3300	
	Albezzia lebbek	3300	Total	3300	
	Total	4125			
II C	Dalbergia sisso	33	Bouganvillae	67	
	Albezzia lebbek	133	Total	67	
	Total	167			
III C-a	Peltoforum ferrugineum	150	Bouganvillae	600	
	Acacia auriculiformis	600	Total	600	
	Total	750			
III C-b	Syzynium cumini	33	Bouganvillae	133	
	Acacia auriculiformis	133	Total	133	
	Peltoforum ferrugineum	133			
	Total	300			
I, VI - a	Tamarindus indica	117	Bouganvillae	467	
	Largestomia flosreginea	933	Total	467	
	Total	1050			
I, VI - b	Tamarindus indica	1013	Bouganvillae	4050	
	Largestomia flosreginea	4050	Total	4050	
	Total	5063			
Va	Albezzia lebbek	467			3360
	Total	467			
Vb	Syzynium cumini	1517			21840

TCS	Trees	No.	Shrubs	No.	Turfing Area (m ²)
	Acacia auriculiformis	12133			
	Peltoforum ferrugineum	12133			
	Total	25783			
Total	Acacia auriculiformis	15700	Bouganvillae	8750	35940
	Albezzia lebbek	4167			
	Dalbergia sisso	892			
	Largestomia flosreginea	4983			
	Peltoforum ferrugineum	14017			
	Syzynium cumini	2842			
	Tamarindus indica	1129			
Grand Total		43729		8750	35940

The landscape drawings and the number of trees of different species in each of the typical cross sections for Package II-B are given in **Appendix 5**.

1.5.5 Package IV-A

Package IV-A has been divided into four landscape sections, The first section is of 39.5km, which includes the VRM bypass and the urban section of Chandauli. The outer rows in the section include species like Bahunia perpuria, Cassia nodosa, Lagerstromea flosreginea, and Bahunia perpuria. The inner rows mainly include shade trees like Azadirachta indica and fruit bearing trees like Syzynium cuminii and Tamarindus indica.

The following table gives the total number of trees of each species proposed for the this package:

Table 12 Proposed Roadside Tree Plantation for Package IV-A

TCS	Trees	No.	Shrubs	No.	Turfing Area(m ²)
1UA-a	Tamarindus indica	667	Bouganvillae	2667	
	Bahunia perpuria	2667	Total	2667	
	Acacia auriculiformis	1333			
	Total	4667			
1UA-b	Tamarindus indica	292	Thavetia nerifolia	1167	
	Acacia auriculiformis	583	Total	1167	
	Total	875			
1UA-c	Tamarindus indica	233	Thavetia nerifolia	933	
	Acacia auriculiformis	933	Total	933	
	Cassia nodosa	467			

	Total	1633		
1RA-a	Tamarindus indica	833	Bouganvillae	3333
	Bahunia perpuria	3333	Total	3333
	Cassia nodosa	1667		
	Tecoma stans	167		
	Total	6000		
1RA-b	Azadirachta indica	108	Bouganvillae	867
	Total	108	Total	867
1RA-c	Tamarindus indica	200	Bouganvillae	800
	Cassia nodosa	800	Total	800
	Gravillea Robusta	800		
	Total	1800		
1RA-d	Tamarindus indica	867	Bouganvillae	3467
	Bahunia perpuria	3467	Total	3467
	Cassia nodosa	1733		
	Total	6067		
1RA-e	Tamarindus indica	108	Bouganvillae	867
	Total	108	Total	867
1RA-f	Syzynium cumini	88	Bouganvillae	700
	Cassia nodosa	350	Total	700
	Acacia auriculiformis	350		
	Total	788		
1RA-g	Syzynium cumini	317	Bouganvillae	1267
	Cassia nodosa	1267	Total	1267
	Acacia auriculiformis	1267		
	Total	2850		
1RA-h	Tamarindus indica	275	Bouganvillae	2200
	Cassia nodosa	1100	Total	2200
	Bahunia perpuria	1100		
	Acacia auriculiformis	1100		
	Total	3575		
1RA- I	Tamarindus indica	3350	Bouganvillae	4467
	Cassia nodosa	2233	Total	4467
	Acacia auriculiformis	2233		
	Total	7817		

1RB- a	Total	0		0	780
1RB- b	Syzynium cumini	217		0	1560
	Cassia nodosa	433			
	Bahunia perpuria	433			
	Acacia auriculiformis	433			
	Total	1083			
1RB- c	Syzynium cumini	183		0	1320
	Cassia nodosa	367			
	Acacia auriculiformis	367			
	Total	917			
1UC-a	Syzynium cumini	50	Bouganvillae	200	
	Cassia nodosa	100	Total	200	
	Total	150			
1UC-b	Syzynium cumini	283	Bouganvillae	1133	
	Acacia auriculiformis	1133	Total	1133	
	Total	1417			
BP120-b1	Syzynium cumini	50		0	720
	Cassia nodosa	200			
	Acacia auriculiformis	200			
	Bahunia perpuria	200			
	Total	650			
BP120-b2	Syzynium cumini	554		0	7980
	Cassia nodosa	2217			
	Acacia auriculiformis	2217			
	Bahunia perpuria	2217			
	Total	7204			
BP500	Syzynium cumini	2825	Bouganvillae	11300	
	Total	2825	Total	11300	
Total	Acacia auriculiformis	12150	Bouganvillae	33267	12360
	Azadirachta indica	108	Thavetia nerifolia	2100	
	Bahunia perpuria	13417			
	Cassia nodosa	12933			
	Gravillea Robusta	800			
	Syzynium cumini	4567			
	Tamarindus indica	6825			

	Tecoma stans	167			
Grand Total		50533		35367	12360

The landscape drawings and the number of trees of different species in each of the typical cross sections for Package IV-A are given in **Appendix 6**.

1.5.6 Package IV-C

Package IV-C has been divided into two landscape sections, one of 20 km, and the other of 9 km. The outer row of species includes Terminalia arjuna, Lagerstromea flosreginea, and Bahunia perpuria. The section passes through an urban area of Dehri on Son river. In the inner row Azadirachta indica and Tamarindus indica are planted.

The following table gives the total number of trees of each species proposed for the this package:

Table 13 Proposed Roadside Tree Plantation for Package IV-C

TCS	Trees	No.	Shrubs	No.	Turfing Area(m ²)
1UA (c1)&	Tamarindus indica	1008			9075
1UD (c1)	Total	1008			
1UA (cn2)					7200
1UA (s2)	Tamarindus indica	33			600
	Gravillea robusta	133			
	Total	167			
1RA (n1)	Tamarindus indica	233	Bouganvillae	933	
	Albizzia lebbek	467	Total	933	
	Acacia auriculiformis	467			
	Total	1167			
1RA (c1)	Tamarindus indica	3187	Bouganvillae	12747	
	Albizzia lebbek	12747	Total	12747	
	Acacia auriculiformis	12747			
	Total	28680			
1RA (n2)	Azarachita indica	33	Bouganvillae	267	
	Total	33	Total	267	
1RC (n2)	Tamarindus indica	67			600

TCS	Trees	No.	Shrubs	No.	Turfing Area(m ²)
	Lagerstroemia florreginea	267			
	Terminalia arjuna	133			
	Acacia auriculiformis	133			
	Total	600			
Total	Acacia auriculiformis	13347	Bougainvillae	13947	17475
	Albizzia lebbek	13213			
	Azarachita indica	33			
	Gravillea robusta	133			
	Lagerstroemia florreginea	267			
	Tamarindus indica	4528			
	Terminalia arjuna	133			
Grand Total		31655		13947	17475

The landscape drawings and the number of trees of different species in each of the typical cross sections for Package IV-C are given in **Appendix 7**.

1.5.7 Package V-B

This stretch on Grand Trunk Road is quite unique as it passes through the Gautam Buddha Wild Life Sanctuary. Tree and shrub plantation in the entire package has been based on the surveys conducted for existing species in the sanctuary. The habitat quality of the sanctuary has deteriorated due to spread of Lantana. Hence the Lantana species has been avoided in package VB entirely. Trees that are native to the sanctuary like Terminalia arjuna and Dalbergia sisso have only been proposed for roadside plantation along this stretch.

Package VB has been divided into 6 sub-sections depending on the land-use pattern and the cross sections followed. Since this package is passing through a wildlife sanctuary, the ROW is constricted in most places and apart from the first few kilometers, very little space is available in the rest of the package for roadside tree plantation.

The following table gives the total number of trees of each species proposed for the this package:

Table 14 Proposed Roadside Tree Plantation for Package V-B

TCS	Trees	No.	Shrubs	No.	Turfing Area (m ²)
2a	Terminalia arjuna	667	Bougainvillae	267	
	Dalbergia sisso	167		267	
		833			

TCS	Trees	No.	Shrubs	No.	Turfing Area (m ²)
2b	Dalbergia sisso	433	Bouganvillae	1733	
	Albizzia labbek	1733		1733	
		2167			
2c	Dalbergia sisso	692	Bouganvillae	2767	
	Albizzia labbek	2767		2767	
		3458			
2d&2e			Bouganvillae	12020	
			Cassia alata	333	
				12353	
4	Dalbergia sisso	817	Cassia alata	167	
		817	Bouganvillae	3267	
				3433	
Total	Terminalia arjuna	667	Cassia alata	500	
	Dalbergia sisso	2108	Bouganvillae	20053	
	Albizzia labbek	4500			
Grand Total		7275		20553	

The landscape drawings and the number of trees of different species in each of the typical cross sections for Package V-B are given in **Appendix 8**.

The detailed specifications for the Horticulture and landscaping works are given in the **Appendix 10**.

1.6 LANDSCAPING AT SPECIFIC IDENTIFIED SITES

1.6.1 Landscaping At Road Junction/Intersection And Traffic Islands

Road intersections are main nodal spaces and are of vital importance in terms of road aesthetics. Proper landscaping of the traffic islands and the surrounding areas shall integrate these features with the surrounding landscape. The layout of traffic intersections shall be fixed by the traffic needs of the junction. The landscape design has considered the basic standards of height limitations, appropriate sight lines and other geometric design elements that are applicable to each type of traffic intersection.

Considering the high intensity of traffic volume in such areas, the proposed treatment has been designed in such a way that minimum attention is needed in the maintenance of the landscape features. Stability of the landscape items also forms a part of the design proposal. (Refer **Appendix 9** for Typical Landscape Drawings for Junctions).

The major road junctions identified for enhancement along the Grand Trunk road are as per following table:

Table 15 Major Road Junctions identified for enhancement

S. No.	Package	Location	Type of Junction	Remarks
1	1A	200.75	Cross Junction	Rambagh Crossing, Flyover proposed
2	1A	231.210	Y Junction, Major junction	Landscaping required
3	1A	232.10	Y junction, start of Raja Ka Tal Bypass	Landscaping required
4	1A	235.4	Y junction, end of Raja Ka Tal Bypass	Landscaping required
5	1B	270.2775	Y Junction	Bypass Cross road, major junction.
6	1B	282.400	Y junction	Bypass Ukrend meets here, major junction.
7	1B	283.700	Cross road	Intersection of a major junction.
8	1C	326.125	Y Junction	Start of Ekdil Bypass
9	1C	327.0	Y Junction	End of Ekdil Bypass
10	1C	336.0	Y Junction	Start of Bakewar Bypass
11	1C	339.3	Y Junction	End of Bakewar Bypass
12	1C	342.5	Y Junction	Start of Ujhayani Bypass
13	1C	350.5	Y Junction	End of Ujhayani Bypass
14	1C	347.6	Y Junction	End of AnatRam Bypass
15	1C	353.05	Y Junction	Start of Ajitmal Bypass
16	1C	358.7	Y Junction	End of Ajitmal Bypass
17	1C	360.4	Y Junction	Start of Bhikepur Bypass
18	1C	363.45	Y Junction	End of Bhikepur Bypass
19	1C	366.45	Y Junction	End of Muradganj Bypass
20	1C	371.500	Cross roads, Major junction	
21	1C	378.300	Cross roads, Major junction	
22	II-B	484.100	Cross roads	Major junction near Police Station + Temple
23	II-B	12.400	T-Junction	Road leads to Railway Station chakori
24	II-B	22.700	T-Junction	Major Junction
25	II-B	33.400	Cross road	Junction near school, P.S & B.S. on the June
26	II-B	38.000	Cross road	Major Junction
27	IV-A	39.000	Syed Raza Bypass	Major Junction
28	IV-A	41-300	Syed Raza Intersection	Major Junction
29	IV-A	45.300	Nanbatpur Bypass	Major Junction
30	IV-A	46.800	Nanbatpur Bypass	Major Junction
31	IV-A	62.000	Didekhili Bypass	Major Junction
32	IV-C	111.5	Bypass Intersection	Major Junction
33	IV-C	130.5	Bypass Intersection	Major Junction
34	IV-C	133	Bypass	Major Junction

S. No.	Package	Location	Type of Junction	Remarks
35	IV-C	139.5	Bypass Intersection	Major Junction
36	V-B	203.85	Cross Junction	Semi urban area
37	V-B	273.275	T- Junction	Rural Area
38	V-B	278.05	Y-Junction	Rural area
39	V-B	281.35	Y-Junction	Start of Barhi bypass
40	V-B	286.775	Y-Junction	End of Barhi bypass
41	V-B	381.20	T-Junction	Rural area

Source: LASA Field Survey, October 2000.

In addition typical enhancement designs have been prepared for minor junctions. The locations of the minor road junctions for which typical enhancement designs have been proposed are as per the following table:

Table 16 Minor Road Junctions proposed for enhancement

S. No.	Package	Location	Type of Junction
1	1A	202.66	T Junction
2	1A	203.76	Y-Junction
3	1A	208.56	Y-Junction
4	1A	210.91	Cross-Junction
5	1A	222.56	Cross-Junction
6	1A	240.56	Y_Junction
7	1A	250.19	Cross-Junction
8	1B	254.5	T-Junction
9	1B	257.3	Cross Junction
10	1B	259.6	Cross Junction
11	1B	276.8	T-Junction
12	1B	277.7	T-Junction
13	1B	294.7	Cross Junction
14	1B	299.8	T-Junction
15	1C	330.4	T-Junction
16	1C	357.5	T-Junction
1	II-B	12.400	Mavaiya / Chakeri
2	II-B	22.700	Igeha / Narwal village
3	II-B	25.960	Sarsaul
4	II-B	33.400	Domanpur / Purvanvir
5	II-B	484.100	Baradevi / Hamirpur
6	II-B	479.000	Gujaini colony
7	IV-A	317.150	N
8	IV-A	317.350	N
9	IV-A	317.550	S
10	IV-A	317.950	S
11	IV-A	318.150	N
12	IV-A	318.450	N
13	IV-A	318.480	S

S. No.	Package	Location	Type of Junction
14	IV-A	318.850	S
15	IV-A	319.000	
16	IV-A	1.580	N
17	IV-A	1.600	S
18	IV-A	4.400	N/S
19	IV-A	6.450	S
20	IV-A	6.550	N
21	IV-A	8.270	S
22	IV-A	8.350	N
23	IV-A	10.840	N/S
24	IV-A	12.050	S
25	IV-A	14.900	
26	IV-A	16.600	N/S
27	IV-A	17.500	N
28	IV-A	18.090	N
29	IV-A	18.150	S
30	IV-A	19.450	S
31	IV-A	19.610	N
32	IV-A	22.600	N
33	IV-A	27.200	N/S
34	IV-A	28.750	N
35	IV-A	29.2-21	N
36	IV-C	110.8	N
37	IV-C	111.6	S
38	IV-C	304.6	S
39	IV-C	321.4	S
40	IV-C	131.2	N
41	IV-C	131.8	N
42	IV-C	131.9	N
43	IV-C	132	N
44	IV-C	132.4	Both Sides
45	IV-C	133.4	North
46	IV-C	134.4	South
47	IV-C	134.5	North
48	IV-C	134.75	South
49	IV-C	139	North
50	IV-C	139.2	North
51	IV-C	139.4	North
52	V-B	240.3	T-Junction
53	V-B	244.45	Y-Junction
54	V-B	250.55	Cross Junction
55	V-B	266.85	T-Junction
56	V-B	272.20	T-Junction
57	V-B	291.7	T-Junction

S. No.	Package	Location	Type of Junction
58	V-B	292.0	Y-Junction
59	V-B	295.20	T-Junction
60	V-B	301.3	T-Junction
61	V-B	311.6	Y-Junction
Source: LASA Field Survey, October 2000.			

(Refer **Appendix 9** for Typical Landscape Drawings for Junctions)

1.6.2 Landscaping at Sensitive noise receptors

All Along the project corridor certain sensitive receptors for noise have been identified which include Schools and Hospitals. Apart from the noise barriers designed for each location, there has been a special treatment given to all these sites in term of the plantation scheme. At these sites the innermost row planted is a tall shrub of 1.5-3m height for the purpose of maximum possible screening effect. Species like Cassia alata, Cassia biflora, Hemelia patens, etc are used for this purpose.

The locations where such plantation is proposed is given in the following table:

Table 17 Proposed Plantation for Noise mitigation at identified sensitive locations

Location Sensitive receptor	of Proposed Plantation				
	From	To	Location	Side of the road	Total area available for Plantation (sq. m)
Package 1A					
Km. 239.000	-	-	Inside the premises of the school	South	3012.7553
Km. 248.050	247.925	248.175	In the proposed RoW for a length of 100m on either side of the existing building	South	6250
Package 1B					
260.200	260.075	260.325	In the proposed RoW for a length of 100m on either side of the existing building as a future provision	North	10,000
284.800	284.675	284.925	In the proposed RoW for a length of 100m on either side of the existing building.	South	5250
290.200	290.075	290.325	In the proposed RoW for a length of 100m on either side of the existing building.	South	5250
292.400	292.275	292.525	In the proposed RoW for a length of 100m on either side of the existing building.	North	5250
297.600	297.475	297.725	In the proposed RoW for a length of 100m on either side of the existing building.	South	5250

Location Sensitive receptor	of Proposed Plantation				
	From	To	Location	Side of the road	Total area available for Plantation (sq. m)
302.200	302.075	302.325	In the proposed RoW for a length of 100m on either side of the existing building.	South	5250
Package 1C					
322.200	322.075	322.325	In the proposed RoW for a length of 100m on either side of the existing building.	North	NIL
334.400	334.275	334.525	In the proposed RoW for a length of 100m on either side of the existing building.	South	4350
336.100	335.975	336.225	In the proposed RoW for a length of 100m on either side of the existing building.	North	NIL
368.900	368.775	369.025	In the proposed RoW for a length of 100m on either side of the existing building as a future provision	South	2500
384.000	-	-	Inside the premises of the school	South	1551.0
Package 2B					
36.900	36.775	37.025	In the proposed RoW for a length of 100m on either side of the existing building	South	2125
Package 4A					
19.700	19.575	19.825	In the proposed RoW for a length of 100m on either side of the existing building	North	475
23.200	23.075	23.325	In the proposed RoW for a length of 100m on either side of the existing building	North	5000
27.400	27.275	27.525	In the proposed RoW for a length of 100m on either side of the existing building	North	5000
Package 5B					
274.800	274.675	274.925	In the proposed RoW for a length of 100m on either side of the existing building	North	NIL
276.500	276.475	276.625	In the proposed RoW for a length of 100m on either side of the existing building	North	NIL
290.900	290.775	291.025	In the proposed RoW for a length of 100m on either side of the existing building	North	NIL
Source: LASA Field Survey, October 2000.					

The detailed specifications for the Horticulture and landscaping works are given in the **Appendix 10**.

1.7 INSTITUTIONAL MECHANISM AND MONITORING

- For each consultancy package there will be an Environmental Manager who will be looking after the environmental activities before, during and after the construction.
- The environmental cell of the Corporate Office will coordinate monitor and administer the activities relating to environmental issues.
- The plantation in the median will be the responsibility of contractors. To stabilize the surface, the contractors will carry out turfing with grasses along with planting of low height shrubs. The contractor will be accountable for the quality of the seedlings, Survival percentage and maintenance of the plantation.
- The Forest Department will ensure the adequacy of plants before the beginning of plantation work.
- Forest Department Will be raising the seedlings and the money pertaining to this can be borne from the (cost of plants) as mentioned in the scheduled rate.
- The rates proposed in work plan are based on the schedule rates of Forest Department, quantum of work and the minimum wages. The Schedule rates of Forest Department will be applicable where plantation will be done by Forest Department. The Forest Department will follow the same technical specification as specified in the tree plantation scheme.
- The plantation is a phased activity therefore the amount will not be released on lumpsum basis. The concerned Environmental Manager along with Forest Department & Supervision Consultant will do the physical verification of the site. The contractor/forest Deptt. Will ensure 80% survival rates in the normal site and 70% in alkaline sites after the end of fourth year.

The following activities shall be verified: -

Phase	Monitoring Parameter	Monitoring by
1 st Year (Advance soil work)	No. of pits	Environmental Manger, Environmental Officer of Supervision Consultant & Representative of Forest Deptt.
2 nd Year (Plantation of Saplings)	Survival % of saplings	Environmental Manger, Environmental Officer of Supervision Consultant & Representative of Forest Deptt.
3 rd Year (Maintenance of Plantation)	Survival % of before & after Causality replacement	Environmental Manger, Environmental Officer of Supervision Consultant & Representative of Forest Deptt.
4 th Year (Maintenance of Plantation)	Survival % of before & after Causality replacement	Environmental Manger, Environmental Officer of Supervision Consultant & Representative of Forest Deptt.

Table 18 Activities Schedule For Plantation along the Highway

Executing Agency: Forest Department

Year	Final year	Month	Activities to be done	
1 st year			Surveying & cleaning of the area	
			Digging of Pits	
			Procurement of Angles Iron and barbed wire	
			Purchase of Farm yard manure	
			Fixing up Angle Iron	
			Stretching of Barbed Wire	
			Filling up of Pits with Farm Yard manure and Soil	
			Transportation of Plants	
	2 nd Year			Planting of Saplings
				Watering
			Weeding and hoeing	
			Weeding and hoeing	
			Watering 4 times a month	
			Weeding and hoeing	
			Maintenance	
			Watering 4 times a month	
			Watering 10 times a month	
			Casualty Replacement (20% of the total plants)	
			Weeding	
			Maintenance by Mali	
3 rd Year				Watering 2 times a month
			Maintenance by Mali	
			Maintenance by Mali	
			Watering 4 times a month	
			Maintenance by Mali	
			Watering	
4 th Year			Casualty Replacement (10% of the total plants)	
			Maintenance by Mali	

PART – B
THE TREE TRANSPLANTATION PLAN

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1.1 INTRODUCTION

The process of tree transplantation has been a keynote in the plantation strategy and landscaping in the GTRIP. Due to the widening of the project corridor a large number of trees are to be felled from the roadside. The transplantation of a grown-up tree involves the concept of saving a significant number of the locally and culturally important trees. This process involves physical lifting up of an entire tree to a more desirable and agreeable place and replanting them in a new soil.

Tree transplantation has been successfully carried out for the first time in highway projects in Vadodara-Halol and Ahmedabad-Mehsana Road Projects. The practical success of this process in these projects has been an encouragement to include transplantation as a key strategy in GTRIP.

A detailed exercise has been carried out in GTRIP for identification of suitable trees and marking them on site. Some of the locally significant species like *Azadirachta indica*, *Magnifera indica*, *Dalbergia sisso* etc. are to be saved by this transplantation exercise.

Transplanting involves to some extent at least a disturbance of plant's root system. There is a loosening of its attachment to the soil & progressive activities are arrested for the time being. Thus transplanting is a rather violent operation, considering the standpoint of the plant. And is required to be done with great care to be successful. Care is therefore to be taken that the plants recover from the set-back as rapidly as possible. Certain conditions are necessary for rapid recovery of plants to active growth. Some of these are dependent upon the nature & structure of the plants themselves & some on the prevailing weather & climatic conditions.

1.2 METHODOLOGY

The detailed methodology for transplanting of trees is divided into various steps, the details of which are as follows:

1.2.1 Side trenching

The plants have to be lifted with as many roots as possible and replaced in fresh soil with the least possible delay. For this purpose a trench 45 to 60 cm in width which is wide enough for working conveniently is opened out in a circle at a suitable distance away from stem, This operation is generally called as "Side trenching", which may vary from 4' to 10' according to the size of the tree or shrub, the soil is gradually removed in the trench approaching the centre of the circle as it descends, thus securing the ball of earth in the shape of an inverted cone. Care is taken not to injure the roots that cross the trench; these are clean sawed or cut with setaceous, if small enough at the outer edge of the trench. The taproot is also severed. With long crowbars the ball of earth

holding the roots is gently lifted and loosened from its attachment with the rest of the soil.

1.2.2 Root treatment

When the trench is sufficiently deep, the diameter of the ball of earth may be reduced to a convenient size with a fork, leaving the protruding roots uninjured. The root ball are continuously kept moist to keep tree active in new root growth & sprouting. If one is definite of success, the transplanting may be made safer thus: The ball of earth may be got ready in two stages, The roots may be severed on one-half of the circle in the trench & this portion is close down with light soil is known as "root treatment". After another week or fortnight, the roots sufficiently recovered from the shock of cuts & can be safely lifted & transplanted. All the roots with jagged cuts or bruises on them are to be cleaned cut back to healthy parts as bruises and bad cuts may bring on decay, which may spread to the plant, killing it.

1.2.3 Defoliation of tree

While it is well known that roots supply all of a plant's water it is less well known that 95 - 99% of a plant's water is rapidly lost as evaporation from the leaves. Therefore leaf surface of the Tree is reduced to limit transpiration, it is called "**defoliation of tree**"; the tree is cut back, if necessary, to concentrate the sap at the roots for formation of new roots to establish the tree. "**Heading in**" or cutting the top is most desirable in many species. If the tree has several strong branches starting from this leader, each a smaller branches may be cut back to half a dozen or more buds, -according to the tree; if there are only few branches, they may be reduced by one-thirds of their length maintaining its natural shape. The heading in done because first to keep balance between root system & the canopy (System underground & above ground should be same to reduce stress on either of it.)

1.2.4 Waxing

The cut surfaces are all covered with a paste "**Waxing**" mixture of water soaking & insecticide liquid to prevent evaporation & to prevent fungus & insect attacks.

1.2.5 Transplantation

The tree is then bodily lifted taking care not to break the ball of and not to bruise the bark of the stem in the operation. This is called "**Transplanting of Trees**". If the ball of earth may happen to be too large to prevent the earth from slipping away, it is tied with sacking or straw. Replanting is done to the same original depth if not 3 to 5 cm deeper. It is not safe to place any fresh manure in contact with the roots. If by chance the earth breaks away from the roots, these are immediately smeared well with a thin paste of 2/3 clay and 1/3 fresh cow dung and water and soaking spray of a fungicide is desirable. The entire plant is then lowered into the hole prepared for it, which is wide enough to take in all roots when spread out. Sand or fine soil is worked in between the roots and the hole filled with good soil which is pressed down layer by layer. After the tree is planted, if necessary, it is to be supported by being tied to a stout long stake, firmly fixed to the ground close to the trunk & protected from cattle by a tree guard. The

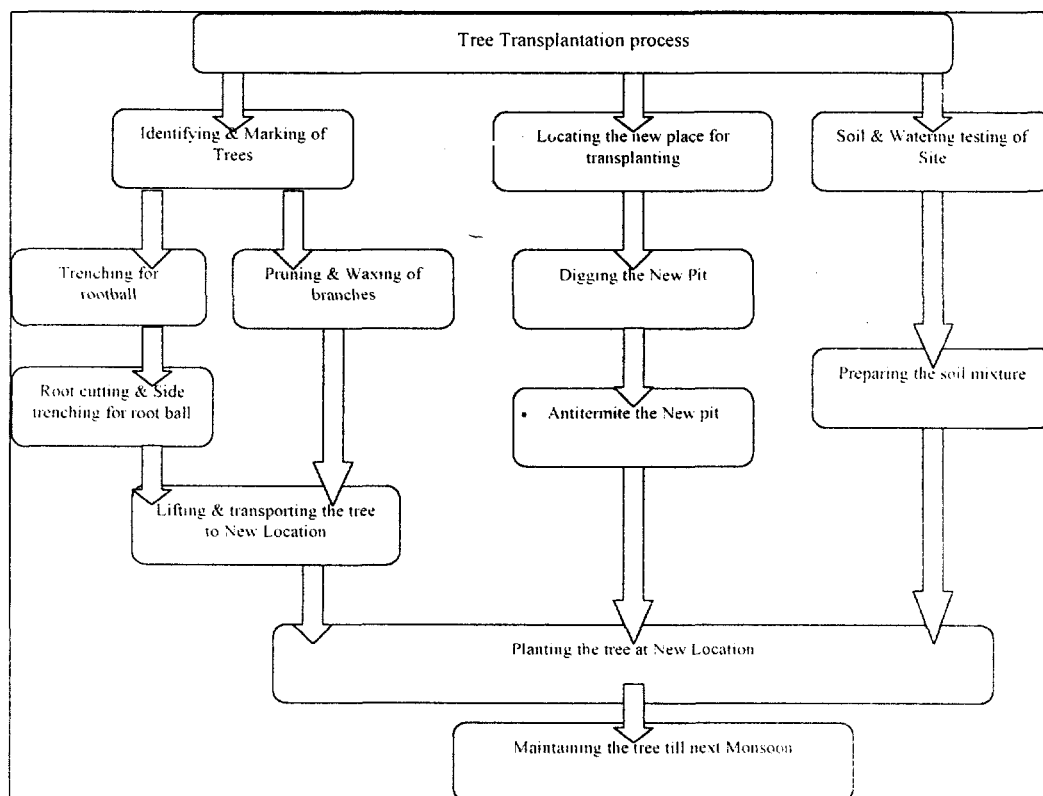
stem may be advantageously wrapped round with moist straw to limit loss of moisture from the tree, the tree is then copiously watered soon after planting, so that the entire ball of earth & the new soil under it, are well moistened.

1.2.6 Post-transplant treatment

After such liberal watering, it may not be necessary to water again for another three days or so. But the tree may be refreshed by spraying on it clear water. It might be provided with shade if the sun is severe. The ground around the stem is watered freely every week or so, in the absence of rain. Too much water is not however to be applied, forming puddles at the bottom of hole in which the tree is planted. Throughout summer, the transplanted tree should get its regular water supply, the soil being soaked through at each watering & not merely sprinkled on the surface. As the surface layer of earth is drying up each time after watering, it may be stirred to depth of 2 to 10 cm, forming mulch. This retards loss of moisture from the soil by evaporation & the tree is enabled to get the full benefit of the water supplied.

It is advisable to carry out all above operations in consultation with & under supervision of experienced horticulturists as soil strata, weather conditions, the plant characteristic & root systems may differ from place to place, Thus requiring modification in the transplanting operations.

1.2.7 Flow Chart for Process of Transplanting of Trees



1.2.8 Generic Guidelines for Tree Transplantation

- Soft-wooded plants transplant better than hardwood plants.
- Plants in dormant state transplant better than those in active growth.
- Young plants established sooner than old ones.
- All plants transplant better with a mass of original soil intact around its roots, which should be disturbed as little as possible.
- As the roots, till they establish themselves in fresh soil, will be unfit to absorb the full supply of moisture needed by the plant, exhalation from the leaves & shoots of the plant is to be kept as low as possible.
- Cool & cloudy weather are chosen for transplanting operations.
- Evenings are better suited than morning or afternoon, as plant refreshes themselves during the cool hours of the night.
- To overcome the dangers of transplanting the soil is well prepared & kept moist, not allowing it to run dry; part of the top of the plant is removed usually to minimise loss of water by transpiration.
- Some time shade is provided till the plants are established.
- Overhead watering by means of spray during the hot hours or occasionally when the leaves wilt, refreshes the plant to a great extent.
- The stems & branches of transplanted trees are wrapped with straw, which is kept moist by spraying water on it to remove loss of the water, by the plant as much as possible.
- If the soil is bad below, it is replaced with a mixture of three parts of manure, two parts of black fertile earth or Loam, and one part of sand for better growth of trees.
- If the soil is fairly good, only manure is mixed with it, in case soil is heavy sand and manure is added to it.
- Transporting or shifting of trees on trailer away from the existing location reduces the chances of success as the trees take more time to set in new conditions, transport may damage root system & trees are required to be cut down in size to make shifting possible through the road.
- A tree regains its original shape with in 4 to 10 years depending on the trunk diameter. Thumb rule is 6" tree regains it original shape in 6 x 12 months.
- Maintenance or Watering of trees is done till one or two monsoons — it is advised to carry out maintenance till the 1st monsoon after transplanting in area where monsoon is good or moderate.

1.3 TREE TRANSPLANTATION IN GTRIP

1.3.1 Criteria for Identification of suitable trees

There are two major criteria for selection of a tree for transplantation. The physical character of the tree, its age and girth become the scientific basis of its suitability and the importance of the tree in its social context is the other important aspect.

1.3.2 Physical criteria

The physical criteria for transplantation of a tree are derived upon by the success rate of the process, which depends upon the survival rate of the tree that is transplanted. Transplanting of fully-grown trees can only be successfully done with the help of machinery, such as the tree lifter. Success rate of trees having trunk diameter less than 1' would be 90%. Success rate of trees having trunk diameter above 1' to 2' would be 60%. Success rate of trees above 2' trunk diameter can only guaranteed for specific species, in specific transplanting season provided that the surrounding conditions like soil & weather of the relocated tree are also taken into consideration. Therefore, trees that are suitable for transplantation are identified on the basis of their size and age.

1.3.3 Local significance

The species of the trees to be transplanted are identified in accordance with their local and social significance. *Azadirachta indica*, *Magnifera indica*, *Dalbergia sisso* etc are some of the important species existing in the area, and therefore are selected as suitable for transplantation.

The detailed chainage wise list of trees identified on site that are suitable for transplantation is given in **Annexure 10**.

1.4 TRANSPLANTATION STRATEGY

The transplantation shall be carried out in each of the packages for the identified and marked trees and the number of trees to be transplanted has been decided upon as 100 in each package. Though the number of trees identified for each package is much larger, it will be decided upon the site itself as to which trees out of the marked ones are to be transplanted.

Table 1 Number of trees to be transplanted in different Packages

S. No	Package	No of Trees to be Transplanted
1	IA	100
2	IB	100
3	IC	100
4	IIB	100
5	IVA	100
6	IVC	100
7	VB	100
	Total	700

In each of the Package some incidental spaces have been identified for enhancement as described in the following section, which shall be used as transplantation sites. The site for

transplantation shall be on both sides within a range of 50-100m of the identified incidental space in each package or it shall be at the discretion of the site engineer to decide regarding the exact tree to be transplanted and its location.

1.4.1 Incidental Spaces for Landscaping using Transplanted Trees

The proposed four laning on the NH2 has been influenced by various factors such as availability of land, existing constraints such as environmental or social features along the road. The new two-lane pavement to be added to the existing road has been proposed either on the north or south based on the above constraints.

Due to the realignment of the alignment within the RoW and the proposed new bypasses many incidental or irregular spaces have been created along the NH2 especially at curves, at start and end of bypasses etc. These micro spaces have potential to add to the visual quality of the road landscape and have been considered from the point of enhancement. The plantation in these areas is to be done only by the transplanted trees.

The following table lists the locations of incidental spaces identified for landscaping:

Table 2 Identified Incidental Spaces

S. No.	Package	Side of Road	Location/ Chainage	Size/ Shape	Existing condition / land use / remarks
1	1A	Median	199.200	Median design	Space b/w 2 bridges
2	1A	Left	200.000	Linear space along Rambagh wall	Neglected space, garbage being dumped, inside RoW
3	1B	South	263.000	Triangular space available at a Junction	One small shrine and three big trees make it an interesting space
4	1B	South	269.400	Triangular space	A Small Temple at the start of Sirsaganj Bypass
5	IVC	South	111.5	Triangular	Agriculture/Land
6	IVC	South	130.5	Triangular	Agriculture/Land
7	IVC	South	133	Triangular	Agriculture/Land
8	IVC	North	132	Triangular	Agriculture/Land
9	V-B	South	310.900	Village Gate	Surajkund gate
10	V-B	South	307.200	Ghat	Entrance enhancement
11	V-B	South	292.700	Crematorium	
12	V-B	South	292.400	Temple & market	
13	V-B	North & South	279.150	Near alignment	Incidental space
14	V-B	North & South	277.500		

Source: LASA Field Survey, October 2000.

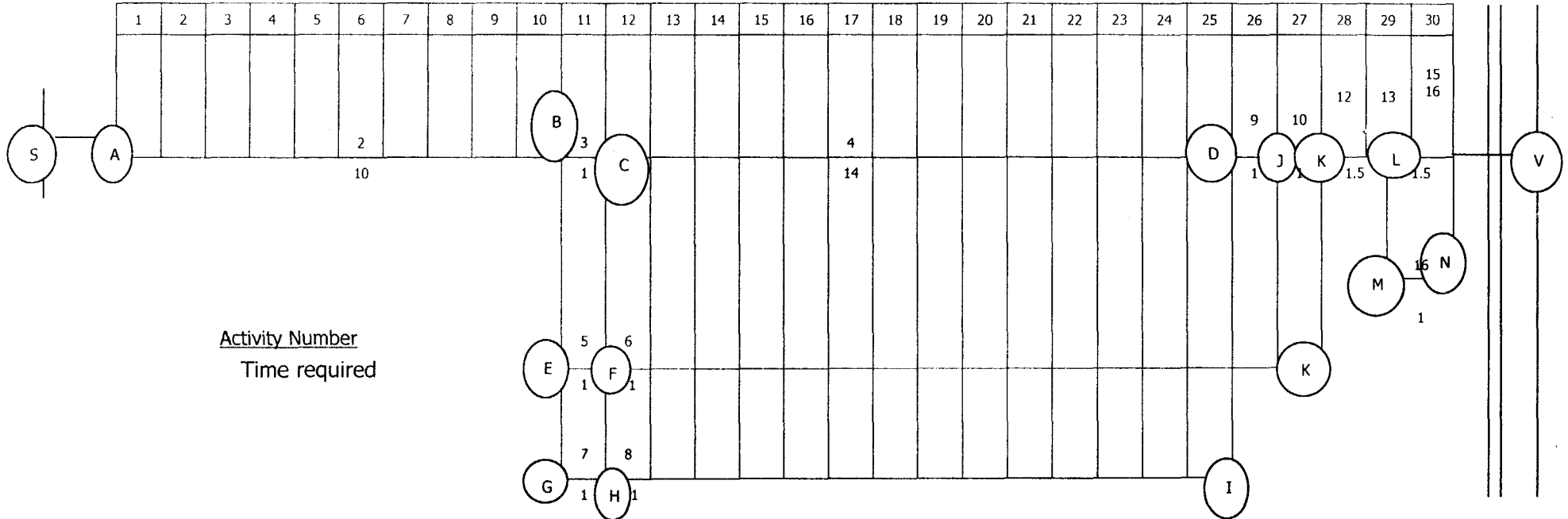
1.4.2 Activities Schedule for tree transplantation

There are various activities involved in the Process of transplantation. Before the actual transplant can take place, the site preparations and planning requires about 10 days and then the actual transplant is carried out in two phases. The first phase includes digging up a trench around the existing tree, after which the tree is waxed and defoliated, it around 14 days for recovery of its roots. In the meantime a new pit is dug where the tree is to be replanted. In the second phase, the tree is uprooted lifted with the help of cranes, its root ball capped, it is placed in the new pit and the pit is refilled. After the entire process of transplant the tree requires a rigorous maintenance for a minimum of 180 days. The following table and schedule chart show the activities involved in transplantation and the time required for each activity.

Table 3 Schedule Chart for Different Activities Involved in Transplantation

S No.	Activity	Time Required Days	Start End
1.	Order confirmation		SA
2.	Preparation & Planning of site work	10	AB
3.	Phase I- Side trenching of the tree	1	BC
4.	Recovery of roots	14	CD
5.	Digging of New pit where tree is to transplanted	1	EF
6.	Antitermiting of pit	1	FK
7.	"Heading in" of the tree	1	GH
8.	Waxing of the tree	1	HI
9.	"Defoliation of leaves"	1	DJ
10.	Phase II- Side trenching of the tree & digging the	1	JK
11.	Root treatment	0.5	KL
12.	Lifting of the tree	0.5	KL
13.	Packing of the root ball	0.5	KL
14.	Transplanting & Planting of the Tree in New pit	0.5	LQ
15.	Refilling the pit	1	LQ
16.	Spreading the soil & refilling the old pit	0.5	MN
17.	Watering the Tree	0.5	LQ
18.	Maintenance of the tree	180	QV

SCHEDULE CHART FOR DIFFERENT ACTIVITIES INVOLVING IN TRANSPLANTING OF TREES



Activity Number
Time required

Quantity of tree transplanted in one month: With one unit consisting Crane, JCB, Water tanker, Trailer & Labour force
 Total time required to Transplant 1st 10 trees (1+14+1+1+1.5+1.5)
 = 20 days
 Transplanting quantity
 = 10 trees / day

Maintenance of Trees till Monsoon

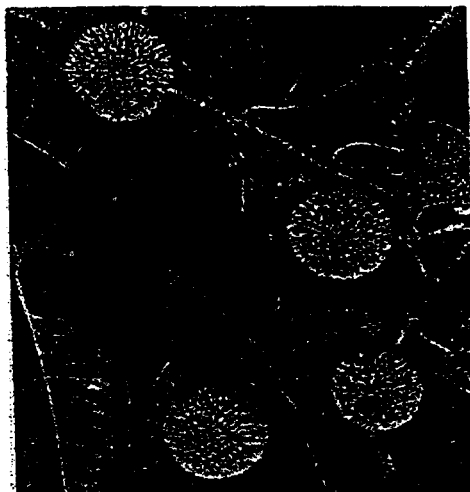
More than one unit could be deployed as per situation demands

Maintenance of trees

Appendix 1

**Description of Locally Significant Species Available Along the Project
Corridor**

Kadamb



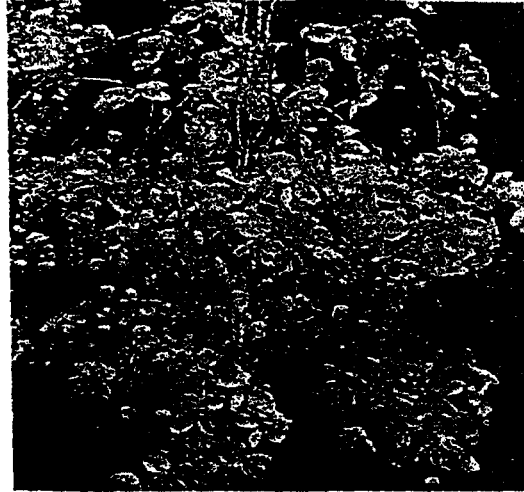
- A. Botanical name : Anthocephalus indica
- B. Local name : Kadamb(Hindi), Heddu (Marathi)
- C. Family : Rubiaceae
- D. Origin/ History : India
- E. Tree Size : Medium - Large
- F. Leaves : Oval or circular in shape comes out in pairs
- G. Fruiting : Solid ball shaped
- H. Flowering : Insignificant singly comes out in ball –June-Aug
- I. Root System : Deep Rooted
- J. Soil Suitability : Rich loamy soil
- K. Water : Optimum
- L. Weather condition: Tropical humid climate
- M. Value : Bark of the trees is used as antiseptic,
Mythological (Gautam Buddha)
- N. Propagation : By seeds
- O. Suitability : Road side
- P. Remark : Shady tree

Palas



- A. Botanical name : Butea monosperma
- B. Local name : Palas (Marathi), Flame of the Forest (Eng)
- C. Family : Papilionaceae / fabaceae
- D. Origin/ History : India
- E. Tree Size : Medium decedious
- F. Leaves : Trifoliate, Leathery leaflets, Leaf fall during winter
- G. Fruiting : Profuse pods, pendulous
- H. Flowering : Large 5 cm long recemes, Standard Fleming orange
- I. Root System : Shallow &. Deep also
- J. Soil Suitability : Poor sandy soil
- K. Water : Less
- L. Weather condition: Tropical climate
- M. Value : In many parts of India this tree is used for cultivation LAC insects
Botanical, economical
- N. Propagation : Seeds & cutting
- O. Suitability : Road side, Parks
- P. Species : B.frondosa

Casia Fistula



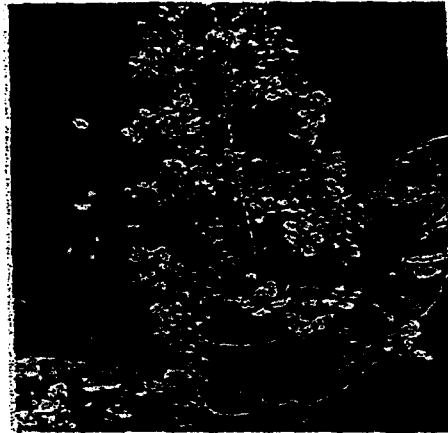
- A. Botanical name : *Casia fistula*
- B. Local name : Amaltas (Hindi), Bahawa (Marathi) Indian lebrnum (Eng)
- C. Family : Caesalpiniaceae
- D. Origin/ History : India, Burma, Thailand
- E. Tree Size : Medium
- F. Leaves : Large, paripinnate opposite leaflets
- G. Fruiting : Long pod turns black after ripening
- H. Flowering : Large yellow, in lacs pendunt racemes
- I. Root System : Deep rooted
- J. Soil Suitability : Well drained soil of moist locality is also suitable
- K. Water : Requires less water.
- L. Weather condition : Drought tolerant
- M. Value : Botanical
- N. Propagation : Seed
- O. Suitability : Road side and Parks
- P. Remark : Timber used in ship building

Casia Fistula



- A. Botanical name : *Casia fistula*
- B. Local name : Amaltas (Hindi), Bahawa (Marathi) Indian lebrnum (Eng)
- C. Family : Caesalpiniaceae
- D. Origin/ History : India, Burma, Thailand
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- N. Propagation : Seed
- O. Suitability : Road side and Parks
- P. Remark : Timber used in ship building

Casia



- A. Botanical name : Casia siamea
- B. Local name : Kassod
- C. Family : Caesal piniaceae
- D. Origin/ History : Burma
- E. Tree Size : Medium
- F. Leaves : 20-30 cms. Long, eliptic oblong
- G. Fruiting : Flat pod
- H. Flowering : Yellow flowers occurs Jun-Jan
- I. Root System : Shallow
- J. Soil Suitability : All Type
- K. Water : Optimum
- L. Weather condition : Humid Condition
- M. Value : Handsom foliage, Ornamental, Botanical
- N. Propagation : By seeds
- O. Suitability : Road side, garden
- P. Remark : Used for road side landscaping

Karanj

- A. Botanical name : Pongamia glabra
- B. Local name : Indian beach(Eng), Karanj (Marathi)
- C. Family : Fabaceae
- D. Origin/ History : Fiji Island, Australia
- E. Tree Size : Medium
- F. Leaves : Pinate 25 cms long, shiny dark leaflets
- G. Fruiting : Pods
- H. Flowering : Rose & lilac coloured flower April - June
- I. Root System : Shallow Roots
- J. Soil Suitability : Moist soil
- K. Water : Optimum
- L. Weather condition: Tropical condition, warm humid climate
- M. Value : Medicine – Oil extract from seeds used for skin, botanical
- N. Propagation : Byseeds
- O. Suitability : Along the Road side
- P. Remark : Evergreen plant
- Q. Species : P.juliflora

Jackfruit

- A. Botanical name : Artocarpus heterophyllus
- B. Local name : Fanas (Marathi), Jackfruit (English), Kathal (Hindi)
- C. Family : Moraceae
- D. Origin/ History : All Native of East Asia
- E. Tree Size : Medium to Large evergreen
- F. Leaves : 10 to 20 cms Long, Elliptic shape
- G. Fruiting : April, June
- H. Flowering : Individual flowers white in colour & numerous
- I. Root System : Shallow/ Deep rooted
- J. Soil Suitability : Deep rich soil
- K. Water : Optimum
- L. Weather condition: Moist tropical climate
- M. Value : Fruit tree, Wood also used for high class furniture.
- N. Propagation : By seeds
- O. Suitability : Road Side & fruit Gardens
- P. Remark : Fruit appears on trunk upto 2 feet long Oblong shaped.

Jackfruit

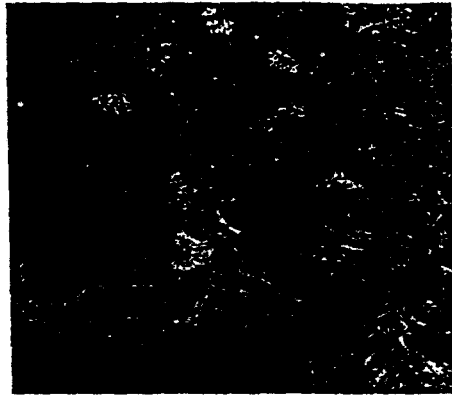
- A. Botanical name : Artocarpus heterophyllus
- B. Local name : Fanas (Marathi), Jackfruit (English), Kathal (Hindi)
- C. Family : Moraceae
- D. Origin/ History : All Native of East Asia
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- F. Leaves : 10 to 20 cms Long, Elliptic shape
- G. Fruiting : April, June
- H. Flowering : Individual flowers white in colour & numerous
- I. Root System : Shallow/ Deep rooted
- J. Soil Suitability : Deep rich soil
- K. Water : Optimum
- L. Weather condition: Moist tropical climate
- M. Value : Fruit tree, Wood also used for high class furniture.
- N. Propagation : By seeds
- O. Suitability : Road Side & fruit Gardens
- P. Remark : Fruit appears on trunk upto 2 feet long Oblong shaped.

Shisam



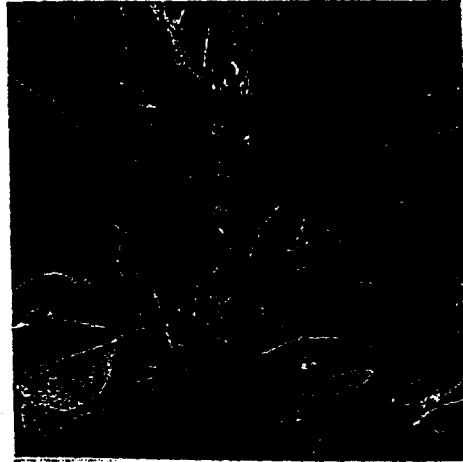
- A. Botanical name : Dulbergia latifolia
- B. Local name : Shisam (Marathi) Biti (Kannad), Sitral (Bengali)
Bombay rosewood (English)
- C. Family : Papilionaceae
- D. Origin/ History : Native of India (Himalyan foot hills to Central/
S.India)
- E. Tree Size : Medium (10 – 25 mt) Spreading Branches
- F. Leaves : Deciduous / leaf shedding end of winter
- G. Fruiting : Strap shaped flat pod with 1 to 3 seeds
- H. Flowering : White colour flowers in summer
- I. Root System : Advantious
- J. Soil Suitability : Most suitable well drained moist soil, also can
stand in poor dry soil.
- K. Water : Optimum
- L. Weather condition: Open sunlight / well in draught
- M. Value : Botanical – specially for valuable Timber
- N. Propagation : Fresh Seeds
- O. Suitability : Road side/Afforestation

Gulmohor



- A. Botanical name : Delonix regia
- B. Local name : Goldmohor, Royal peacock flower/ fire tree
- C. Family : Caesalpinaceae
- D. Origin/ History : Native of Tropical Africa /Asia
- E. Tree Size : Medium Size (5 – 10mts.)
- F. Leaves : Feathery/Elegant/compound Leaves
- G. Fruiting : 50 cms long 5 to 8 cms broad
- H. Flowering : February to March
- I. Root System : shallow and spreading
- J. Soil Suitability : Variety of Soil/ well in rocky soil
- K. Water : Optimum
- L. Weather condition: Well in all climatic condition
- M. Value : Botanical
- N. Propagation : By seeds
- O. Suitability : Road side, Parks
- P. Remark : Fast Growing Tree
- Q. Species : D. elata

Banyan Tree



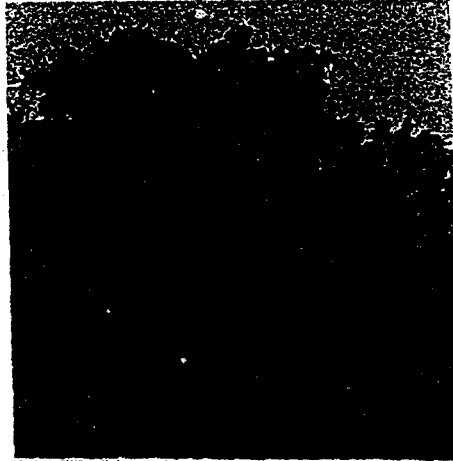
- A. Botanical name : *Ficus bengalensis*
- B. Local name : Vad (Marathi) Bargat / Bar (Hindi)
- C. Family : Moraceae
- D. Origin/ History : Indigenous
- E. Tree Size : Large /enormous tree 30 to 40 Mtrs high
- F. Leaves : Broadly oval in shape smooth & Shiny
- G. Fruiting : Fruits are inconspicuous, Very minute
- H. Flowering : Flowering inconspicuous, Very minute
- I. Root System : Spready Deep rooted
- J. Soil Suitability : Deep rich soil
- N. Water : Optimum
- L. Weather condition: Humid Climate
- M. Value : Botanical & religious
- N. Propagation : Seeds / Cutting
- O. Suitability : Planting along road side
- P. Remark : Huge shady tree.
- Q. Speceis : *F. infectoria*, *F. hispida*

Pipal



- A. Botanical name : *Ficus religiosa*
- B. Local name : Pimpal (Marathi) Pipal (Hindi)
- C. Family : Moraceae
- D. Origin/ History : India & Burma
- E. Tree Size : Large Glabrous
- F. Leaves : Shiny Green Simple
- G. Fruiting : Red colour Rounded fruits
- H. Flowering : Male/ Female same receptacle mananadrous Jan to Feb
- I. Root System : Spready & Deep Rooted
- J. Soil Suitability : Deep rich Soil
- M. Water : Optimum
- L. Weather condition: humid Climate
- M. Value : Botanical / religious
- N. Propagation : Seed & Cutting
- O. Suitability : Road side & parks
- P. Remark : Very Good Shady Tree & religious
- Q. Species : *F. rumphii*

Mango



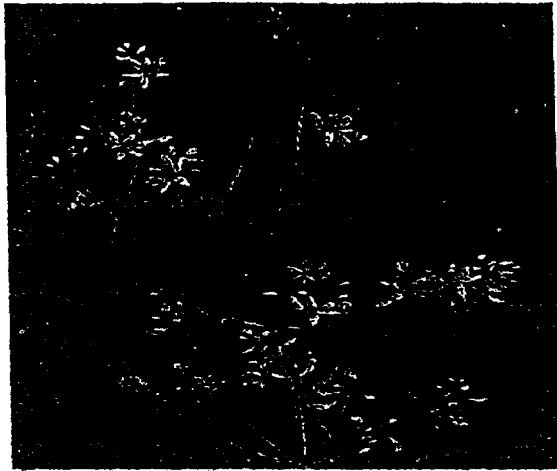
- A. Botanical name : *Mangifera Indica*
- B. Local name : Aamba(Marathi), Aam(Hindi)
- C. Family : Anacardiaceae
- D. Origin/ History : Indo-Malaysia region
- E. Tree Size : Medium to large
- F. Leaves : lanceolate 10-25 cm long and narrow
- G. Fruiting : May-July , Most delicious fruits among the tropical fruits
- H. Flowering : End of January
- I. Root System : Deep rooted
- J. Soil Suitability : Well drained soil
- L. Water : Frequent water during early stages
- L. Weather condition: Dried and humid/tropical condition
- M. Value : Botanical/Commercial
- N. Propagation : Seed, Grafting
- O. Suitability : Fruit gardens and road side
- P. Species : Alphonso, Totapuri, Dasherri, Langra

Arjun



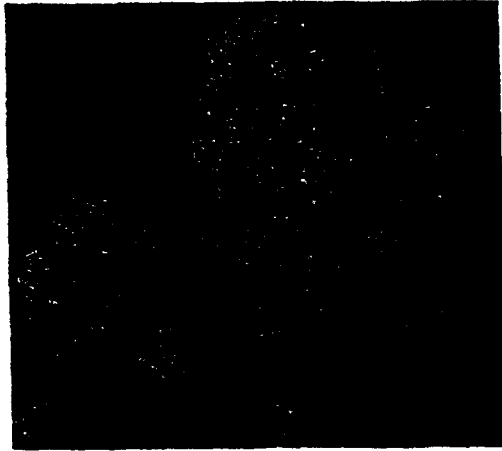
- A. Botanical name : Terminalia arjuna
- B. Local name : Arjun(Marathi)
- C. Family : Combretaceae
- D. Origin/ History : India
- E. Tree Size : Large
- F. Leaves : Sub opposite oblong
- G. Fruiting : 3 to 6 cms long ovoid
- H. Flowering : Yellow racemes April-May
- I. Root System : Deep rooted
- J. Soil Suitability : Clay soil
- K. Water : Requires plenty of water
- L. Weather condition: Humid tropical climate
- M. Value : Botanical
- N. Propagation : Seed
- O. Suitability : Forest plants

Emli



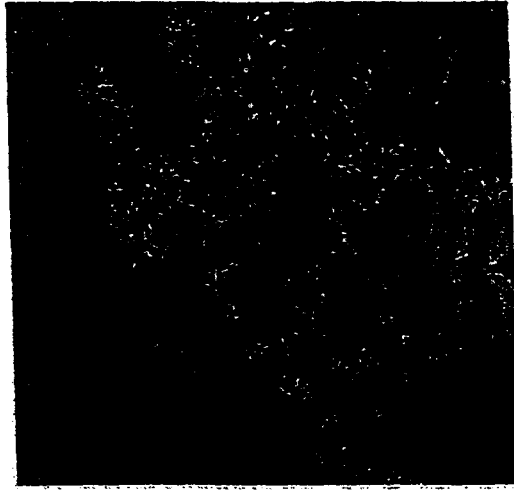
- A. Botanical name : Tamarindus indica
- B. Local name : Tamarind (Eng), Chinch (Marathi), Emli (Hindi)
- C. Family : Casealpineaceae
- D. Origin/ History : India, tropical africa
- E. Tree Size : Large
- F. Leaves : Feathery & cpomound leaves
- G. Fruiting : Fruits are in pod brown in colour
- H. Flowering : Dirty White, small loose clusters May- June
- I. Root System : Deep Rooted
- J. Soil Suitability : Any type of soil
- K. Water : Optimum
- L. Weather condition: Tropical Climate
- M. Value : Several hundred year life, Botanical,
Commercial, Meicinal
- N. Propagation : By seeds
- O. Suitability : Road Side
- P. Remark : Used in making of Spirit

Jamun Tree



- A. Botanical name : Syzygium cumini
- B. Local name : Java Plum (Eng), Jambhul (Marathi), Jamun (Hindi)
- C. Family : Myrtaceae
- D. Origin/ History : India, Indonesia, Burma
- E. Tree Size : Medium to Large
- F. Leaves : Oval to lanceolate in shape
- G. Fruiting : Colour of fruit changes from green to astringent to purplish, Finally dark purple May- June
- H. Flowering : White or Dirty white - March to June
- I. Root System : Deep rooted
- J. Soil Suitability : any type
- K. Water : Optimum
- L. Weather condition: Arid & Humid season
- M. Value : Hardy tree, Fruit Tree, Botanical
- N. Propagation : By Seeds
- O. Suitability : Road Side, Garden

Neem



- A. Botanical name : Azadirachta indica
- B. Local name : Neem/ Margoso tree
- C. Family : Meliaceae
- D. Origin/ History : Derived From Percian name, Native of India/Malaysia
- E. Tree Size : Medium To Large (10 to 16 Mt)
- F. Leaves : Shiny foliage shady tree
- G. Fruiting : 2-3 cm long oblong shaped. Turns Yellow when ripped.
- H. Flowering : White honey scented flowering (March-April)
- I. Root System : Deep
- J. Soil Suitability : Saline Soil
- K. Water : Less
- L. Weather condition: Hardy tree stand well in draught
- M. Value : Medicinal
- N. Propagation : By seeds
- O. Suitability : Road side, Parks and Garden
- P. Remark : In Drier region it attens much larger size than in humid.

Rain Tree



- A. Botanical name : *Samanea saman*
- B. Local name : Monkey Pod (English)
- C. Family : Mimosaceae
- D. Origin/ History : Tropical America
- E. Tree Size : Very large
- F. Leaves : Bipinnate
- G. Fruiting : Fruit pod straight
- H. Flowering : Corolla, tabular, yellowish
- I. Root System : Spreading
- J. Soil Suitability : Any type of soil
- K. Water : More water
- L. Weather condition: Warm humid climate
- M. Value : Botanical
- N. Propagation : Seed and Cuttings
- O. Suitability : Road side and Parks

Scope of Machines involved & Space of transplanting Trees

1. Trees above girth size 115" or diameter more than 36" has weight more than 20 tons. Crane required lifting the tree along with the root ball & working radius 40' to 50', will be more than 200T capacity. This crane cannot be operated on loose or ordinary ground, as their counter weight itself is 200T.
2. All cranes require minimum space of 20' x 20' flat land to set its support while lifting the load. JCB & Water tanker are simultaneously working while transplanting of trees.
3. The space around the tree should have compaction capacity of 10T to bare the dead weight of crane.
4. Generally tree root ball size is 8' to 10' diameter & 7' to 8' in depth (to save 70% of the root system). Therefore 15' area should be clear from telephone cables, water pipeline & other underground utilities.
5. Trees to be transplanted have height of 30' & crane required to lift these trees has boom of 70'. The space above trees should be clear from electric or other overhead wires.
6. Water logging around the tree is harmful for transplanted trees & it loosen the soil & becomes difficult for crane to operate, hence avoided.
7. Urban area has lot of underground and overhead utilities, hence avoided for transplanting.
8. Trees along the road-side or on the road slops are avoided as the original level of the tree is much more deep than existing level. The trench around the tree has to be deeper or larger, which is dangerous for the existing road and unsafe for pedestrians and cyclists.

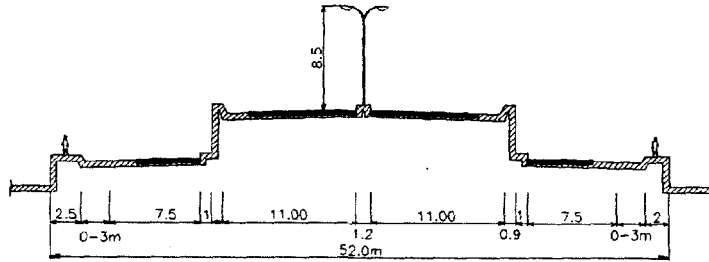
9. New location of the tree within boom length is preferred, as it does not damage the root system.
10. Damage of OFCables are costing very high due to its utility & rejoining cost, so trees on the side of OFCables can be avoided.

List of Other Species Found

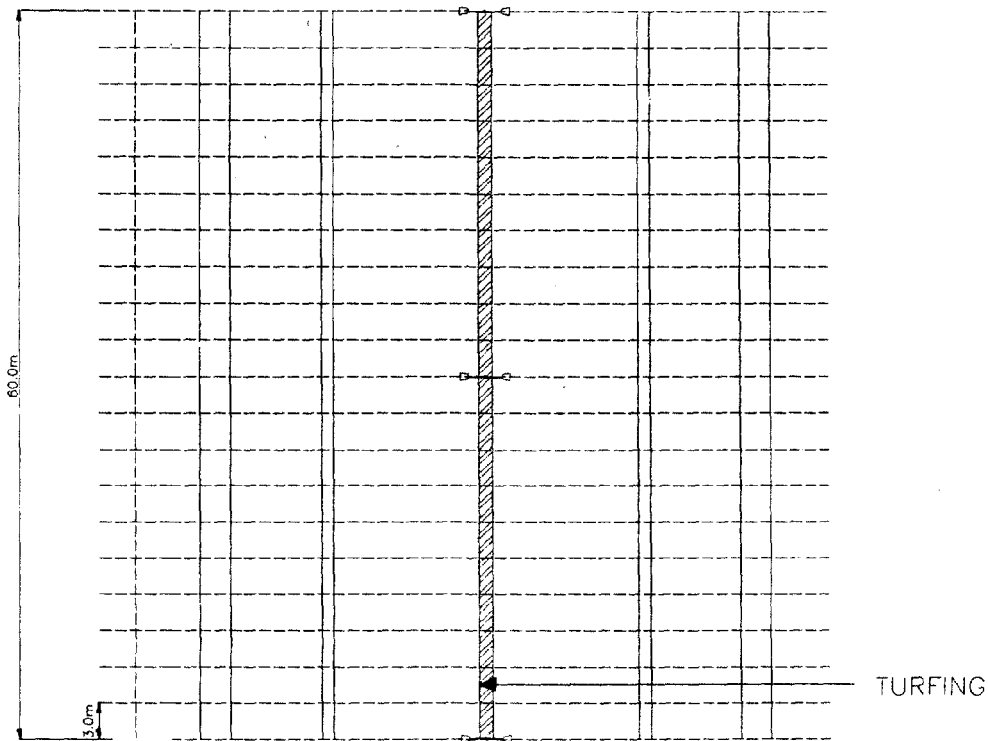
1. Erethrenica indica (Pangera)
2. Bhahunia spp. (White Kanchan)
3. Soo babcol
4. Drumstick (Shevga)
5. Sterculia alta
6. Millingtonia
7. Bamboo spp.
8. Guler
9. Bel
10. Umbar
11. Cassia fistula (Labernum- Bhavua)
12. Cassia auriculiformis
13. Allay

Appendix 2

Landscape Drawings and Tree Plantation Table for Package I-A



SECTION: TCS-1, TCS-9



PLAN: TCS-1, TCS-9

PKG:1-A, CH: 0.7-1.4, CONCENTRIC WIDENING ROAD LANDSCAPE SECTION: 199.66-205.51
 TCS-9, CH: 21.4-23.2, CONCENTRIC WIDENING ROAD LANDSCAPE SECTION: 205.51-231.66

URBAN SECTION
 Average ROW available = 52m
 Space for plantation = 0-3m on each side

LEGEND:-
 SHADE/ORNAMENTAL TREES
 TALL/CONICAL AVENUE TREES
 MEDIAN SHRUBS
 GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
 INDEPENDENT ENVIRONMENTAL REVIEW

Scale
 NTS

National Highways Authority Of India
 1, Madan Avenue
 Indraprastha Complex
 New Delhi - 110002



Notes:-
 1) No tree is to be planted within 2.5m of an existing tree.
 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
 TCS 01

Lee Associates South Asia Pvt. Ltd.
 A-202, New Friends Colony,
 New Delhi - 110026
 Phone - 6226000, 6226000



LANDSCAPE PLAN FOR PACKAGE: 1A, TCS-1&9(Urban)

Landscape Section: 199.66 - 205.51, 205.51-231.66

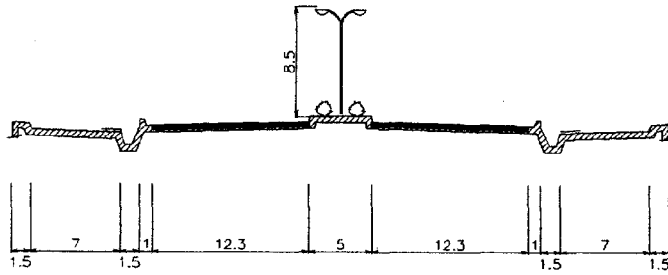
Design Chainage for TCS: 0.7-1.4, 21.4-23.2

Length (m): 2500

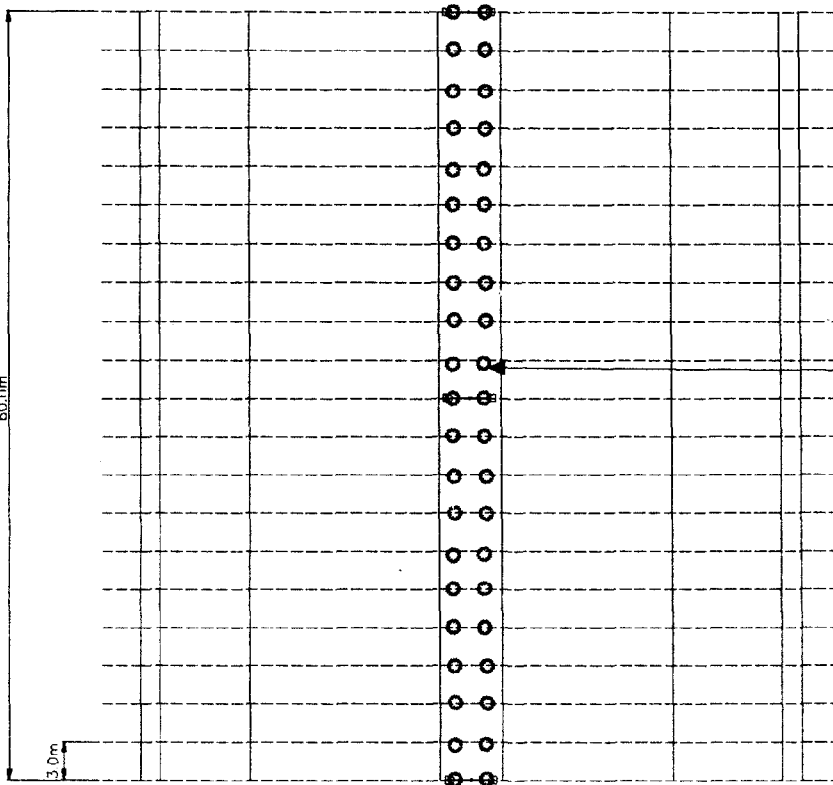
Average ROW available: 52m

Space for Plantation: 0-3m Both sides

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
South	Beyond Daylight Line					
Median (1.2m)	Median					
	Grass					3000
Total Section						
Total	Trees			0		
Total	Shrubs				0	
Total	Grass					3000



SECTION: TCS-2



THAVETIA NERIFOLIA
@ 3Mc/c

PLAN: TCS-2

PKG:1-A, CH-1.4-4.18, CONCENTRIC WIDENING
ROAD LANDSCAPE SECTION: 199.66-205.51

URBAN SECTION
Average ROW available=52m
Space for plantation=None

LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority of India
1, Eastern Avenue
Mahatma Road
New Delhi - 110002



Notes:-
1) No tree is to be planted within 2.5m of an existing tree.
2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS 02

Leo Associates South Asia Pvt. Ltd.
A-22, New Friends Colony,
New Delhi - 110026
Phone - 622200, 622202



LANDSCAPE PLAN FOR PACKAGE: 1A, TCS-2 (Urban)

Landscape Section: 199.66 - 205.51

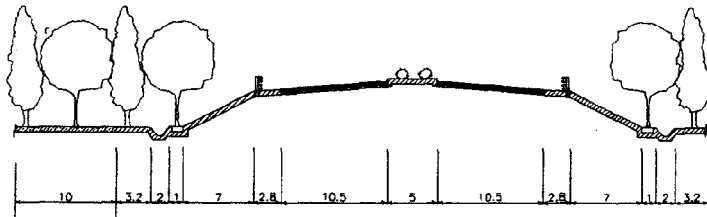
Design Chainage for TCS: 1.4-4.18

Length (m): 2780

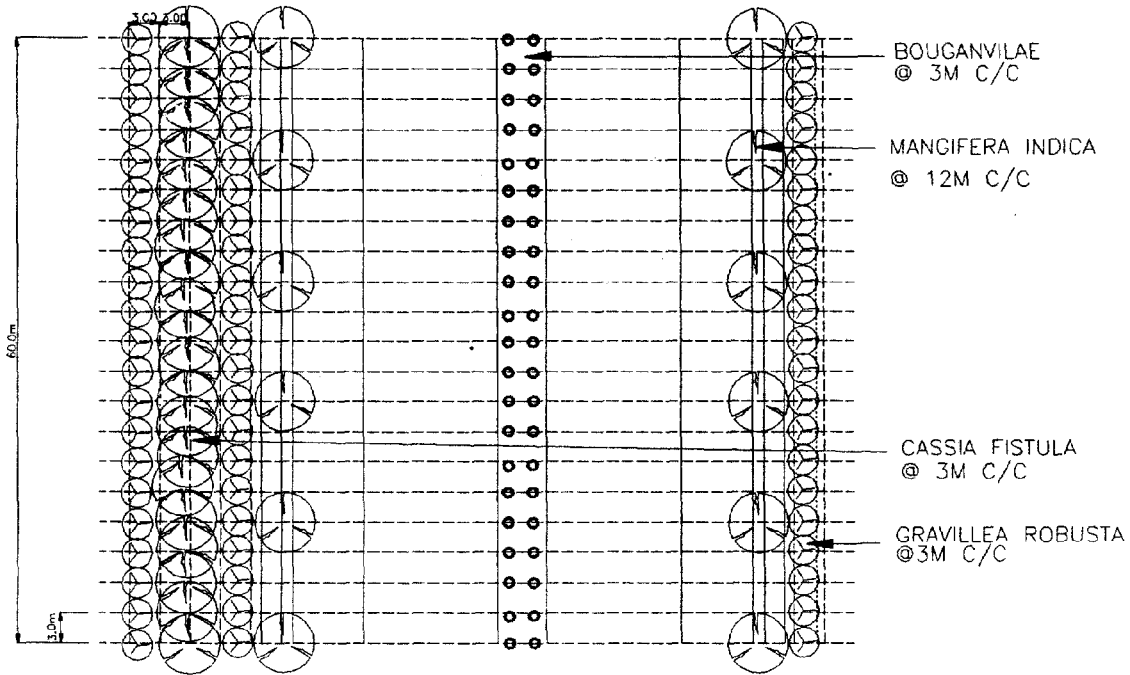
Average ROW available: 52m

Space for Plantation: None On sides

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
South	Beyond Daylight Line					
Median (5m)	Median					
	1st row	Thavetia nerifolia	3		927	
	2nd row	Thavetia nerifolia	3		927	
Total Section						
Total	Trees			0		
	Total	Thavetia nerifolia			1853	
Total	Shrubs				1853	
Total	Grass					0



SECTION: TCS-3



PLAN: TCS-3

PKG:1-A, CH-4.18-5.15, NEW ALIGNMENT
THROUGH AGRA RESERVE FOREST
ROAD LANDSCAPE SECTION: 199.66-205.51

RURAL SECTION
Average ROW available =58m
Space for plantation =3.2m on each side
+ 10m strip on Left

- LEGEND:-**
- SHADE/ORNAMENTAL TREES
 - TALL/CONICAL AVENUE TREES
 - MEDIAN SHRUBS
 - GRASS TURVING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Rashtrapati Avenue
Minister's Office
New Delhi - 110002.



- Notes:-**
- 1) No tree is to be planted within 2.5m of an existing tree.
 - 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS 03

Leo Associates South Asia Pvt. Ltd.
A-225, Near Pitamba Colony,
New Delhi - 110005.
Phone - 6622904, 6622909



LANDSCAPE PLAN FOR PACKAGE: 1A, TCS-3 (Urban)

Landscape Section: 199.66 - 205.51

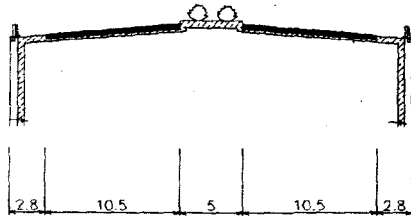
Design Chainage for TCS: 4.18 - 5.15

Length (m): 970

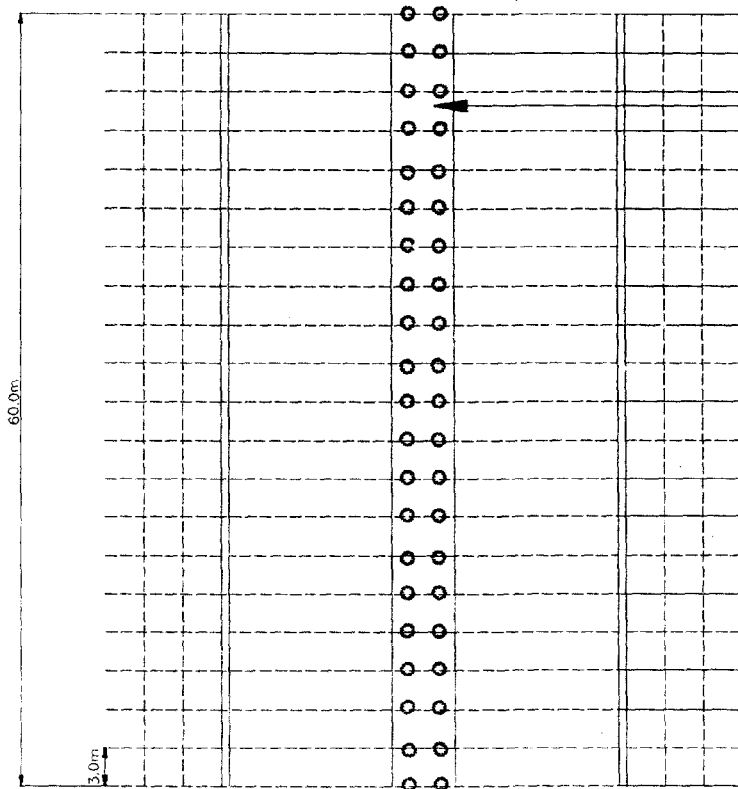
Average ROW available: 58m

Space for Plantation: 13.2m Left
3.2m Right

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Mangifera indica	12	81		
	2nd row	Gravillea robusta	3	323		
	3rd row	Cassia fistula	3	323		
	4th row	Gravillea robusta	3	323		
South	Beyond Daylight Line					
	1st row	Mangifera indica	12	81		
	2nd row	Gravillea robusta	3	323		
Median (5m)	Median					
	1st row	Bouganvillae	3		323	
	2nd row	Bouganvillae	3		323	
Total Section						
	Total	Mangifera indica		162		
	Total	Gravillea robusta		970		
	Total	Cassia fistula		323		
Total	Trees			1455		
	Total	Bouganvillae			647	
Total	Shrubs				647	



SECTION TCS-4



THAVETIA NERIFOLIA
@ 3M C/C

PLAN TCS-4

PKG:1-A, CH-5.15-5.95, NEW ALIGNMENT THROUGH AGRA RESERVE FOREST ROAD LANDSCAPE SECTION: 199.66-205.51	RURAL SECTION Average ROW available =32m Space for plantation =None
--	---

LEGEND:- SHADE/ORNAMENTAL TREES TALL/CONICAL AVENUE TREES MEDIAN SHRUBS GRASS TURFING	Project GRAND TRUNK ROAD IMPROVEMENT PROJECT INDEPENDENT ENVIRONMENTAL REVIEW	Scale NTS	National Highways Authority Of India 1, Eastern Avenue Mahatma Bhagat New Delhi - 110008.
	Notes:- 1) No tree is to be planted within 2.5m of an existing tree. 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.	Fig. No. TCS 04	Lee Associates South Asia Pvt. Ltd. A-203, New Friends Colony, New Delhi - 110029. Phone - 6222634, 6222635

LANDSCAPE PLAN FOR PACKAGE: 1A, TCS-4 (Rural)

Landscape Section: 199.66 - 205.51

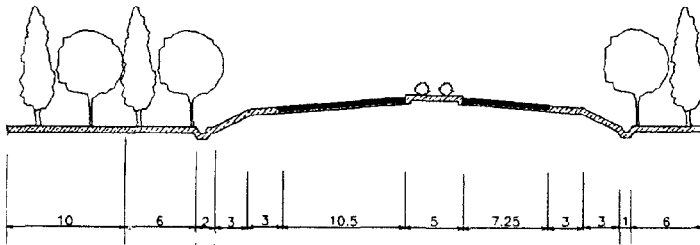
Design Chainage for TCS: 5.15 - 5.95 (New Allignment)

Length (m): 970

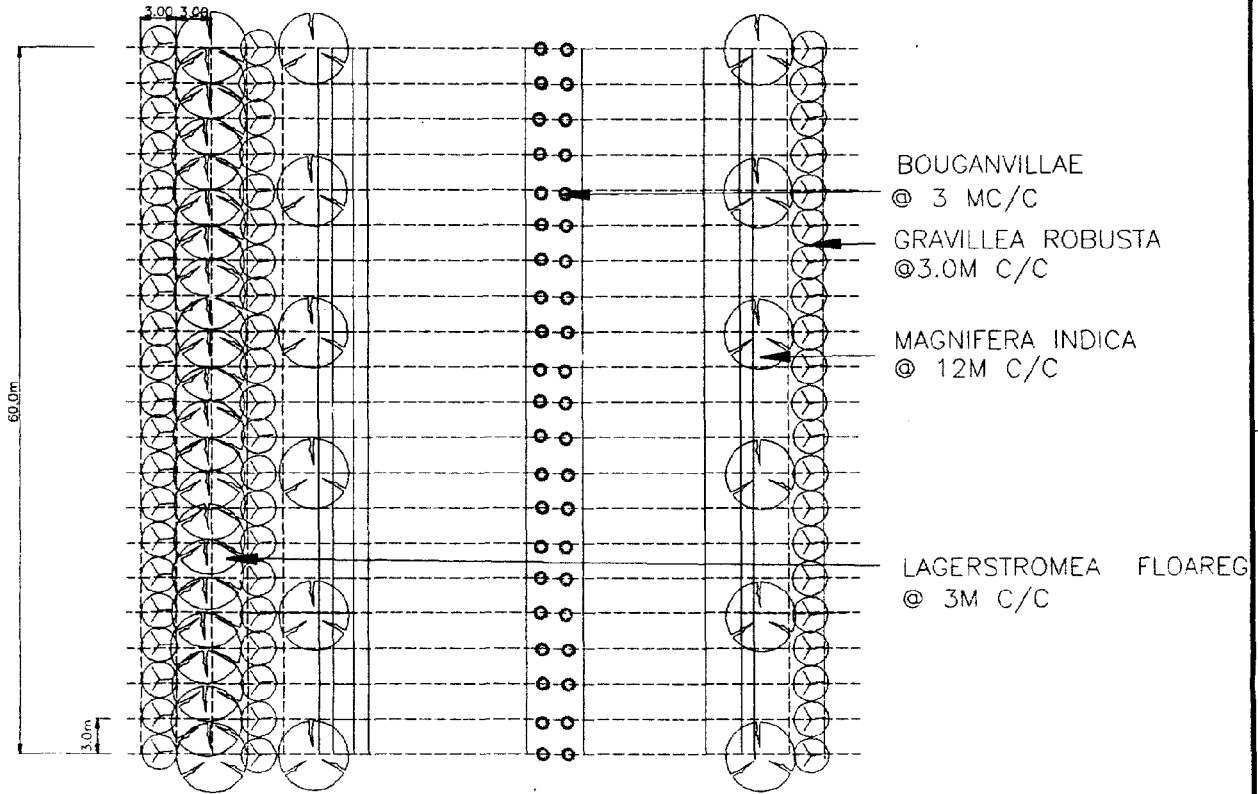
Average ROW available:32m

Space for Plantation: None Both sides

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
South	Beyond Daylight Line					
Median (5m)	Median					
	1st row	Thavetia nerifolia	3		323	
	2nd row	Thavetia nerifolia	3		323	
Total Section						
Total	Trees			0		
	Total	Thavetia nerifolia			647	
Total	Shrubs				647	



SECTION: TCS-5



BOUGANVILLAE
@ 3 MC/C
GRAVILLEA ROBUSTA
@ 3.0M C/C

MAGNIFERA INDICA
@ 12M C/C

LAGERSTROMEA FLOAREA
@ 3M C/C

PLAN: TCS-5

PKG:1-A, TCS:5, CH-5.95-7.3, CONCENTRIC WIDENING
ROAD LANDSCAPE SECTION: 205.51-231.66

RURAL SECTION
Average ROW available = 49m
Space for plantation = 6m on each side
+10m strip on Left

- LEGEND:-**
- SHADE/ORNAMENTAL TREES
 - TALL/CONICAL AVENUE TREES
 - MEDIAN SHRUBS
 - GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Eastern Avenue
Mahatma Singh
New Delhi - 110002



Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS 05

Leo Associates South Asia Pvt. Ltd.
A/28, New Friends Colony,
New Delhi - 110029,
Phone - 8822888, 8822808



LANDSCAPE PLAN FOR PACKAGE: 1A, TCS-5 (Rural)

Landscape Section: 205.51-231.66

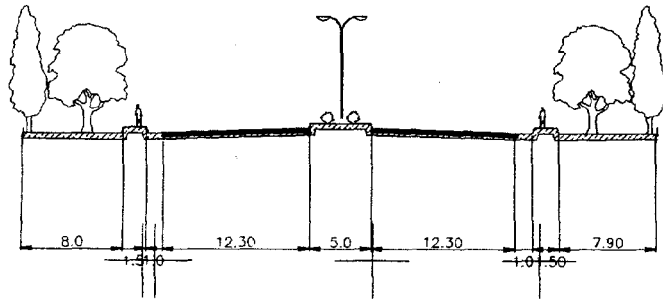
Design Chainage for TCS: 5.95 - 7.3

Length (m): 1350

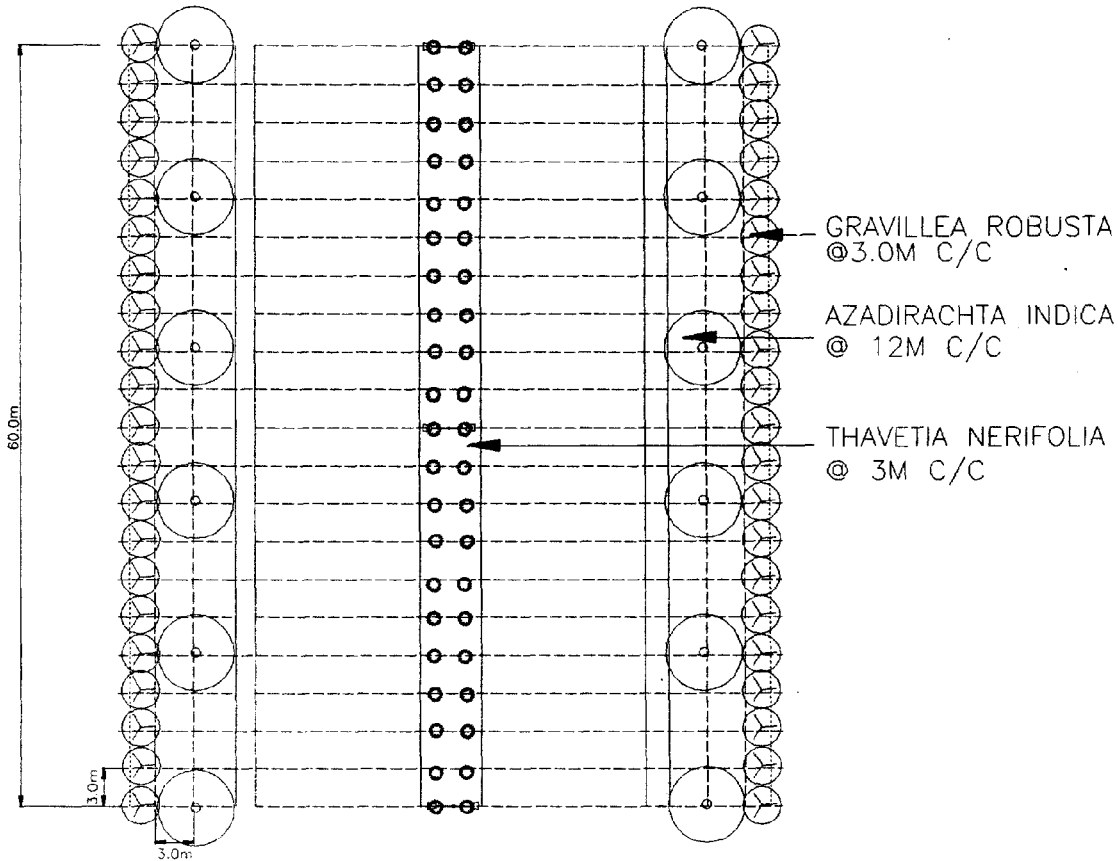
Average ROW available: 49m

Space for Plantation: 6m Right
16m Left

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Mangifera indica	12	113		
	2nd row	Gravillea robusta	3	450		
	3rd row	Lagerstromea flosreginea	3	450		
	4th row	Gravillea robusta	3	450		
South	Beyond Daylight Line					
	1st row	Mangifera indica	12	113		
	2nd row	Gravillea robusta	3	450		
Median (5m)	Median					
	1st row	Bouganvillae	3		450	
	2nd row	Bouganvillae	3		450	
Total Section						
	Total	Mangifera indica		225		
	Total	Gravillea robusta		1350		
	Total	Lagerstromea flosreginea		450		
Total	Trees			2025		
	Total	Bouganvillae			900	
Total	Shrubs				900	



SECTION(d) OF TCS-6



PLAN(d) OF TCS-6

PKG:1-A, CH-7.3-7.7, 10.4-11.0, CONCENTRIC WIDENING
ROAD LANDSCAPE SECTION: 205.51-231.66

URBAN SECTION
Average ROW available =49.25m
Space for plantation=6.7-8.0 m on each side

LEGEND-

- SHADE/ORNAMENTAL TREES
- TALL/CONICAL AVENUE TREES
- MEDIAN SHRUBS
- GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
MTB

National Highways Authority Of India
1, Easton Avenue
Sector 10, Connaught Place
New Delhi - 110028



Notes-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS 06A

Leo Associates South Asia Pvt. Ltd.
A-203, New Preeto Colony,
New Delhi - 110002.
Phone - 8822668, 8822669



LANDSCAPE PLAN FOR PACKAGE: 1A, TCS-6a (Urban)

Landscape Section: 199.66 - 205.51

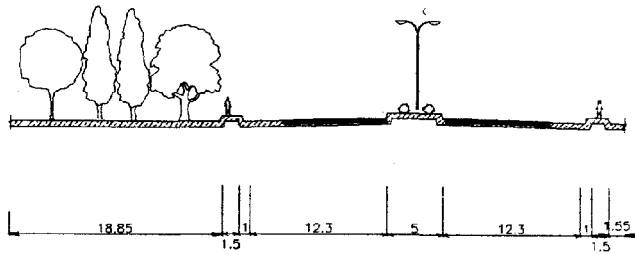
Landscape Section: 205.51-231.66

Length (m): 1000

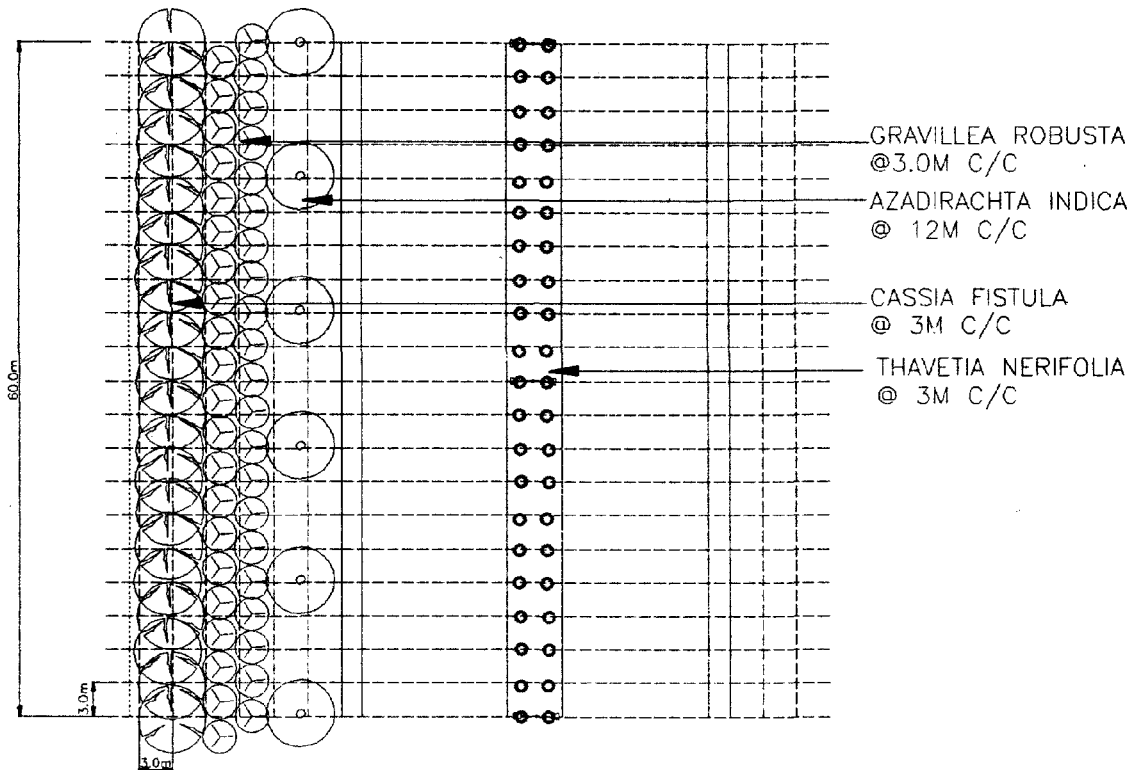
Average ROW available: 49.25m

Space for Plantation: 6.7-8m Both sides

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m ²)
	1st row	Azadirachta indica	12	83		
	2nd row	Gravillea robusta	3	333		
South	Beyond Daylight Line					
	1st row	Azadirachta indica	12	83		
	2nd row	Gravillea robusta	3	333		
Median (5m)	Median					
	1st row	Thavetia nerifolia	3		333	
	2nd row	Thavetia nerifolia	3		333	
Total Section						
	Total	Azadirachta indica		167		
	Total	Gravillea robusta		667		
Total	Trees			833		
	Total	Bouganvillae			667	
Total	Shrubs				667	



SECTION(b) OF TCS-6



PLAN(b) OF TCS-6

PKG:1-A, CH-18.2-20.2. RIGHT SIDE WIDENING
ROAD LANDSCAPE SECTION: 205.51-231.66

URBAN SECTION
Average ROW available= 55m
Space for plantation =1.55m on right
18.85m on left

LEGEND:-

	SHADE / ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Eastern Avenue
Ministerial Bldg
New Delhi - 110002

Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS 008

Lee Associates South Asia Pvt. Ltd.
A-020, New Friends Colony,
New Delhi - 110026.
Phone - 6622804, 6622803

LANDSCAPE PLAN FOR PACKAGE: 1A, TCS-6b (Urban)

Landscape Section: 205.51-231.66

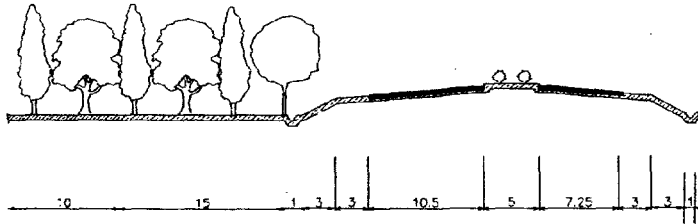
Design Chainage for TCS: 18.2-20.2

Length (m): 2000

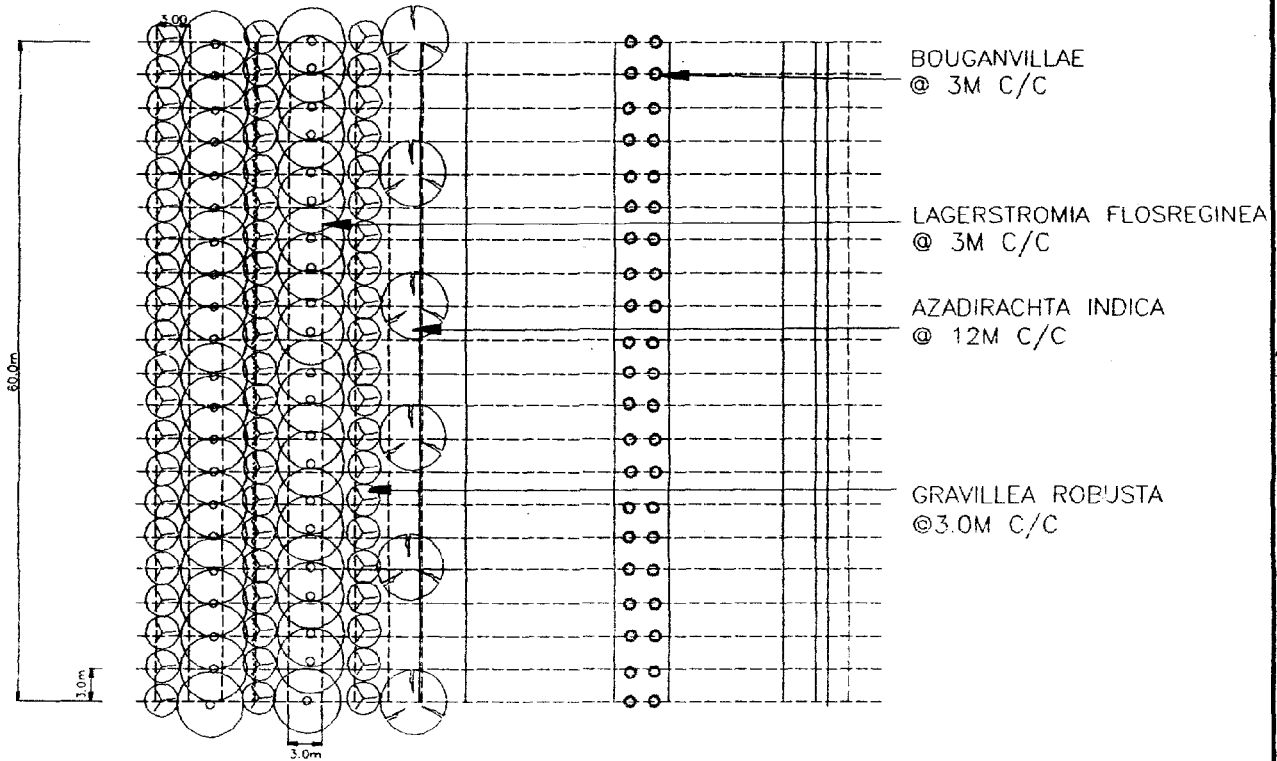
Average ROW available: 55m

Space for Plantation: 1.55m Right
18.85m Left

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Azadirachta indica	12	167		
	2nd row	Gravillea robusta	3	667		
	3rd row	Gravillea robusta	3	667		
	4th row	Cassia fistula	3	667		
South	Beyond Daylight Line					
Median (5m)	Median					
	1st row	Thavetia nerifolia	3		667	
	2nd row	Thavetia nerifolia	3		667	
Total Section						
	Total	Azadirachta indica		167		
	Total	Gravillea robusta		1333		
	Total	Cassia fistula		667		
Total	Trees			2167		
	Total	Bouganvilleae			1333	
Total	Shrubs				1333	



SECTION: TCS-7



PLAN: TCS-7

PKG:1-A, TCS.7, CH-7.7-10.4, RIGHT SIDE WIDENING
ROAD LANDSCAPE SECTION: 205.51-231.66

RURAL SECTION
Average ROW available = 51m
Space for plantation = 15.0m on left
 none on right
 + 10m strip on left

LEGEND:-
 SHADE/ORNAMENTAL TREES
 TALL/CONICAL AVENUE TREES
 MEDIAN SHRUBS
 GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
 INDEPENDENT ENVIRONMENTAL REVIEW

Scale
 NTS

National Highways Authority Of India
 1, Eastern Avenue
 New Delhi - 110002



Notes:-
 1) No tree is to be planted within 2.5m of an existing tree.
 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
 TCS 07

Lee Associates South Asia Pvt. Ltd.
 A-820, New Pritanagar Colony,
 New Delhi - 110025
 Phone - 622200, 622208



LANDSCAPE PLAN FOR PACKAGE: 1A, TCS-7 (Rural)

Landscape Section: 205.51-231.66

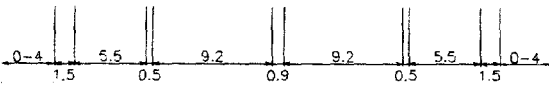
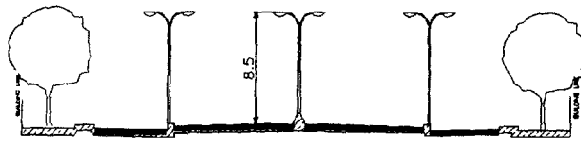
Design Chainage for TCS: 7.7-10.4

Length (m): 2700

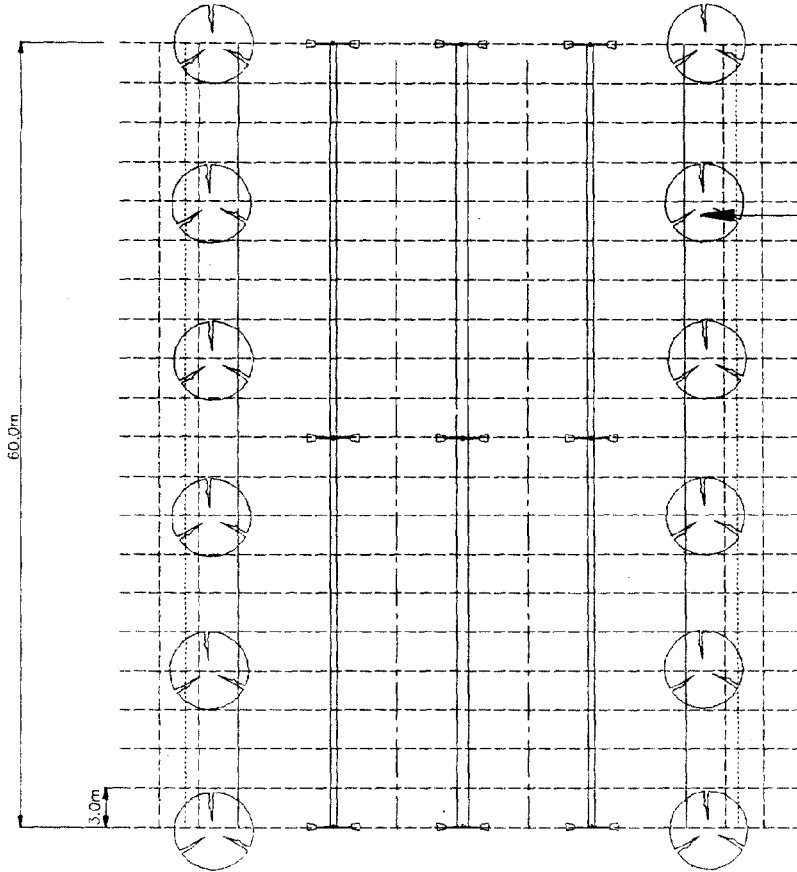
Average ROW available: 51m

Space for Plantation: 15m Left

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Azadirachta indica	12	225		
	2nd row	Gravillea robusta	3	900		
	3rd row	Lagerstromea flosreginea	3	900		
	4th row	Gravillea robusta	3	900		
	5th row	Lagerstromea flosreginea	3	900		
	6th row	Gravillea robusta	3	900		
South	Beyond Daylight Line					
Median (5m)	Median					
	1st row	Bouganvilleae	3		900	
	2nd row	Bouganvilleae	3		900	
Total Section						
	Total	Azadirachta indica		225		
	Total	Gravillea robusta		2700		
	Total	Lagerstromea flosreginea		1800		
Total	Trees			4725		
	Total	Bouganvilleae			1800	
Total	Shrubs				1800	



SECTION: TCS-8



MADHUCA INDICA
@ 12M C/C

PLAN: TCS-8

PKG:1-A, TCS-8: CH: 16.5-18.2, CONCENTRIC WIDENING
ROAD LANDSCAPE SECTION: 234.96-245

URBAN SECTION
Average ROW available = 42.5m
Space for plantation = 0-4m on each side

LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFS

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Scale
NTS

Fig. No.
TCS 05

National Highways Authority Of India
1, Eastern Avenue
Marshall Road
New Delhi - 110002.

Lee Associates South Asia Pvt. Ltd.
A-220, New Friends Colony,
New Delhi - 110002.
Phone - 6622800, 6622808



LANDSCAPE PLAN FOR PACKAGE: 1A, TCS-8 (Urban)

Landscape Section: 234.96-245

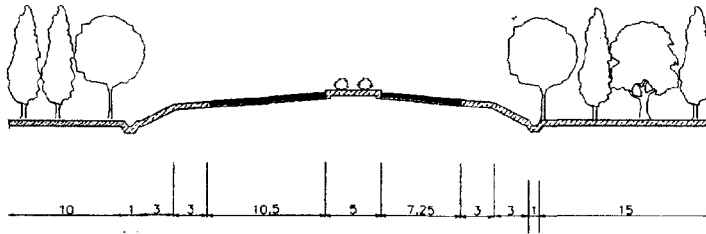
Design Chainage for TCS: 16.5-18.2

Length (m): 17000

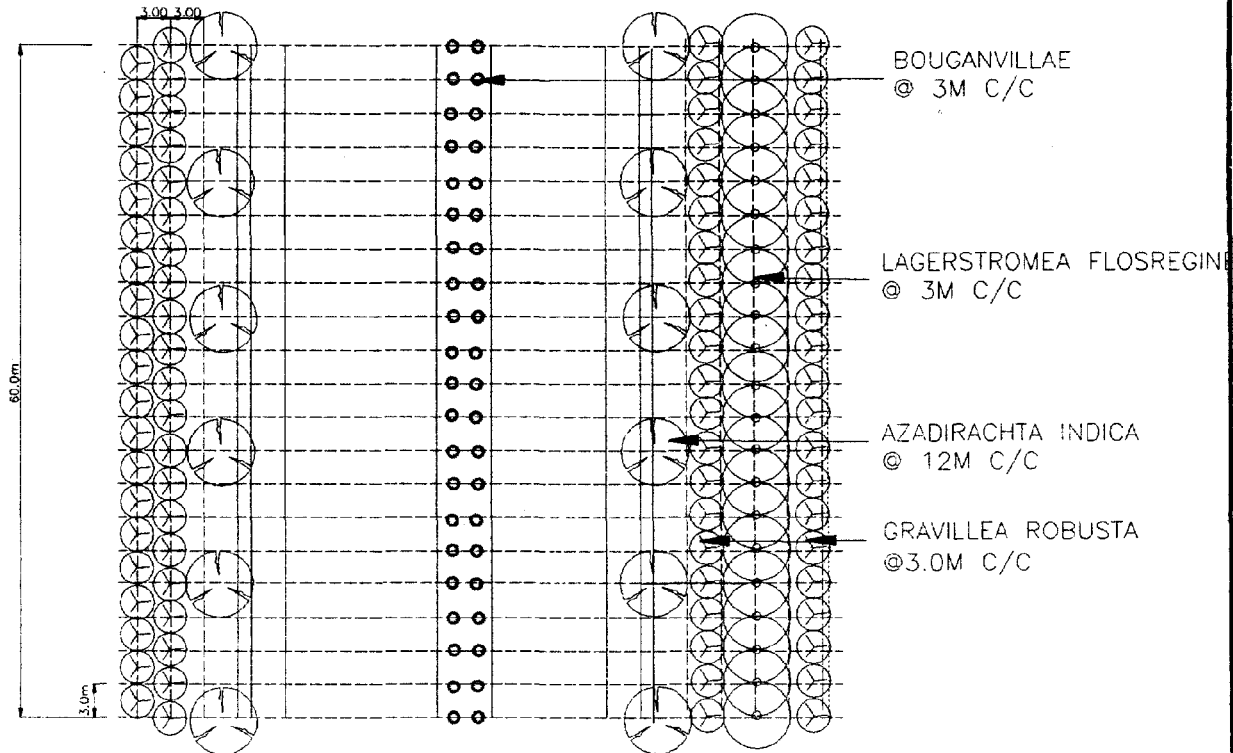
Average ROW available: 58m

Space for Plantation: 0-4m Left
0-4m Right

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Madhuca indica	12	1417		
South	Beyond Daylight Line					
	1st row	Madhuca indica	12	1417		
Median (5m)	Median					
Total Section						
	Total	Madhuca indica		2833		
Total	Trees			2833		
Total	Shrubs				0	



SECTION: TCS-10



PLAN: TCS-10

PKG:1-A, TCS:10, CH-7.7-10.4, 30.3-32.1, 46.5-50.8 LEFT SIDE WIDENING
 ROAD LANDSCAPE SECTION: 205.51-231.66
 At Ch. 247.925-248.175, *Hemelia patens* (tall shrub) to be planted
 @3m c/c in inner row for noise mitigation on South side

RURAL SECTION
 Average ROW available =52m
 Space for plantation =none on left
 15.0m on right
 + 10m strip on Left

LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/COLONIAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
 INDEPENDENT ENVIRONMENTAL REVIEW

Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Scale
 NTS

Fig. No.
 TCS 05

National Highways Authority Of India
 1, Eastern Avenue
 Mahatma Road
 New Delhi - 110002.

Lee Associates South Asia Pvt. Ltd.
 A-202, New Feroz Colony,
 New Delhi - 110008.
 Phone - 8822808, 8822809

LANDSCAPE PLAN FOR PACKAGE: 1A, TCS-10 (Rural)

Landscape Section: 205.51-231.66

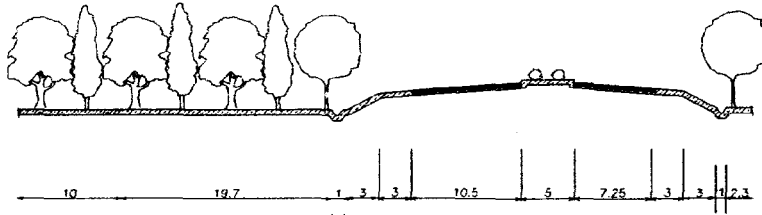
Design Chainage for TCS: 30.3-32.1, 46.5-50.8

Length (m): 6100

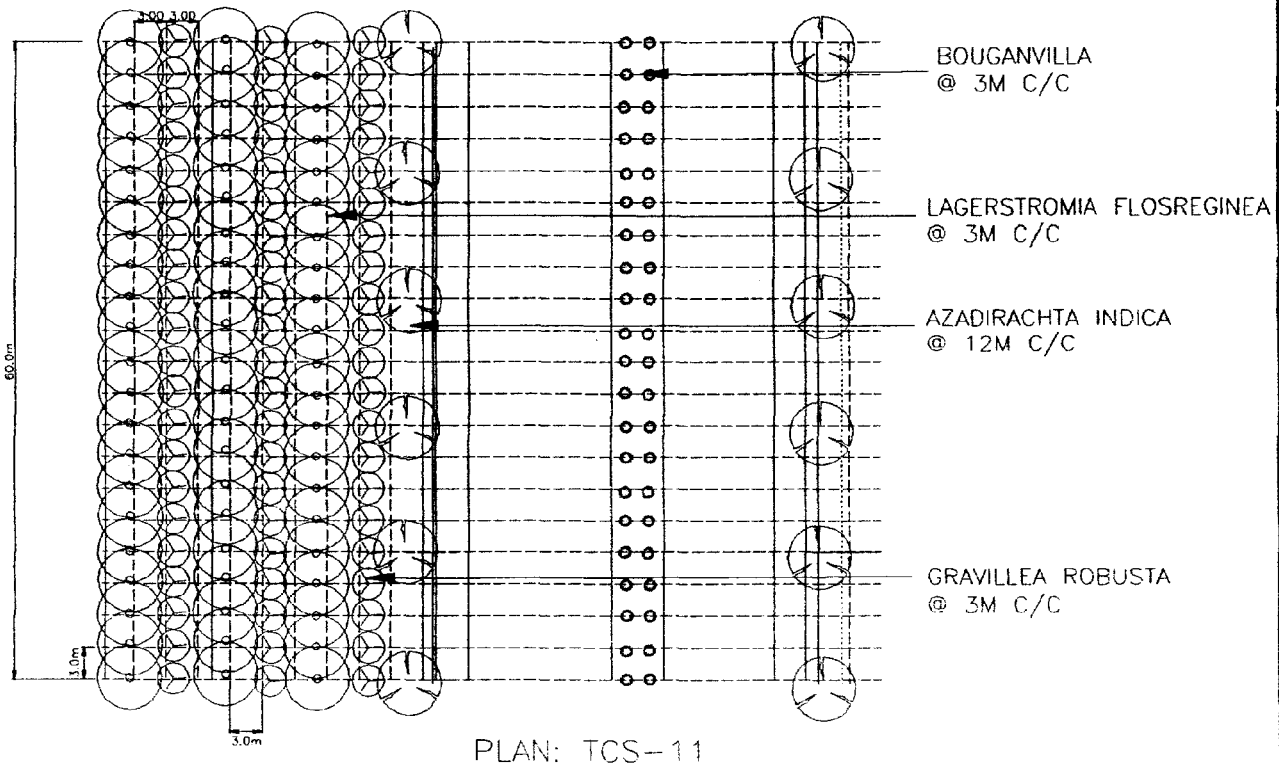
Average ROW available: 52m

Space for Plantation: 15m Right
10m Left

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Azadirachta indica	12	508		
	2nd row	Gravillea robusta	3	2033		
	4th row	Gravillea robusta	3	2033		
South	Beyond Daylight Line					
	1st row	Azadirachta indica	12	508		
	2nd row	Gravillea robusta	3	1950		
	2nd row (247.925-248.175)	Hemelia patens	3	83		
	3rd row	Lagerstromea flosreginea	4	1525		
	4th row	Gravillea robusta	3	2033		
Median (5m)	Median					
	1st row	Bouganvillae	3		2033	
	2nd row	Bouganvillae	3		2033	
Total Section						
	Total	Azadirachta indica		1017		
	Total	Gravillea robusta		8050		
	Total	Hemelia patens		83		
	Total	Lagerstromea flosreginea		1525		
Total	Trees			10675		
	Total	Bouganvillae			4067	
Total	Shrubs				4067	



SECTION: TCS-11



PLAN: TCS-11

PKG:1-A, TCS: 11, CH-27.5-30.3, RIGHT SIDE WIDENING
ROAD LANDSCAPE SECTION: 205.51-231.66

RURAL SECTION
Average ROW available = 58.75m
Space for plantation = 19.7m on left
2.3m on right
+ 10m strip on left

LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Eastern Avenue
Meharand Singh
New Delhi - 110006.

Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS 06

Lea Associates South Asia Pvt. Ltd.
A-226, New Friends Colony,
New Delhi - 110006.
Phone - 6222603, 6222609

LANDSCAPE PLAN FOR PACKAGE: 1A, TCS-11 (Rural)

Landscape Section: 205.51-231.66

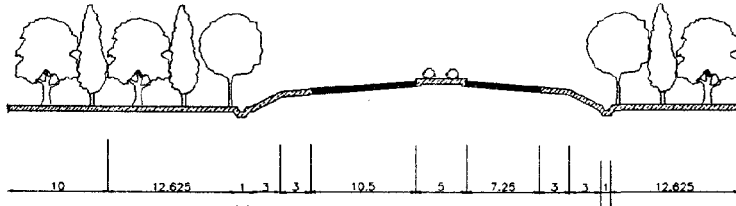
Design Chainage for TCS: 27.5-30.3

Length (m): 2800

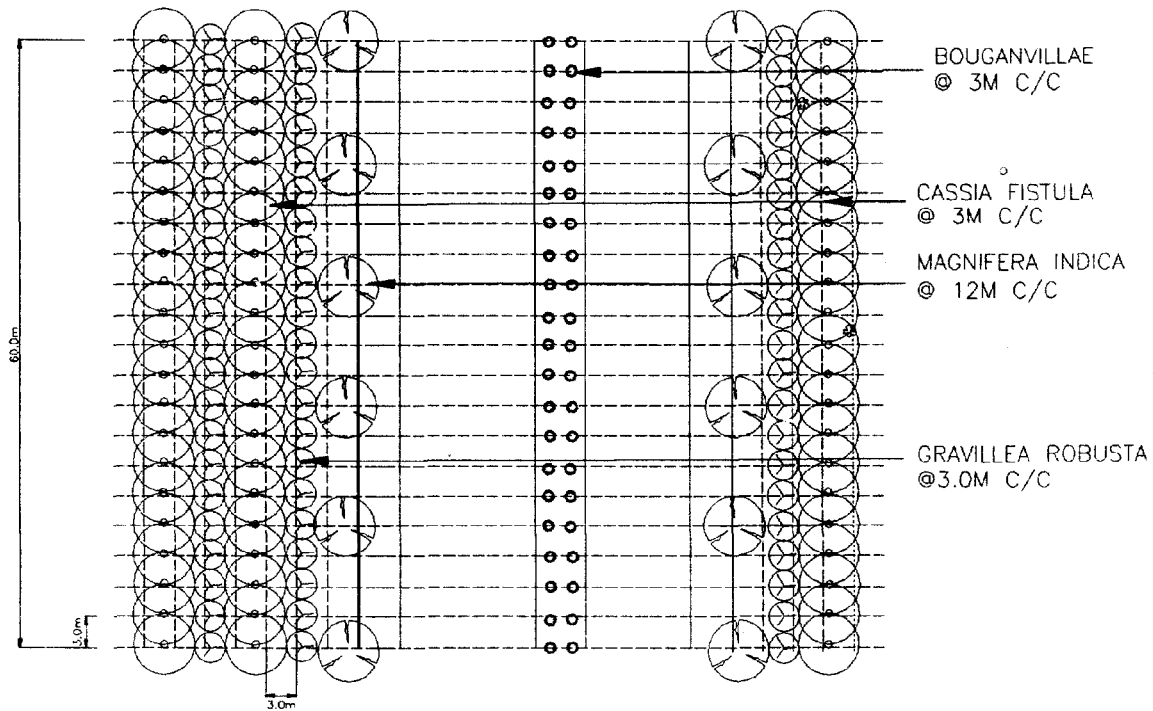
Average ROW available: 58.75m

Space for Plantation: 19.7 Left
12.3m Right

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Azadirachta indica	12	233		
	2nd row	Gravillea robusta	3	933		
	3rd row	Lagerstromea flosreginea	3	933		
	4th row	Gravillea robusta	3	933		
	5th row	Lagerstromea flosreginea	3	933		
	6th row	Gravillea robusta	3	933		
	7th row	Lagerstromea flosreginea	3	933		
South	Beyond Daylight Line					
	1st row	Azadirachta indica	12	233		
Median (5m)	Median					
	1st row	Bouganvillae	3		933	
	2nd row	Bouganvillae	3		933	
Total Section						
	Total	Azadirachta indica		467		
	Total	Gravillea robusta		2800		
	Total	Lagerstromea flosreginea		2800		
Total	Trees			6067		
	Total	Bouganvillae			1867	
Total	Shrubs				1867	



SECTION: TCS-12



PLAN: TCS-12

PKG:1-A, TCS: 12, CH-32.10-35.4, NEW ALIGNMENT
ROAD LANDSCAPE SECTION: 205.51-231.66

RURAL SECTION
Average ROW available =60.0m
Space for plantation=12.625m on each side
+ 10m strip on Left

LEGEND:

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURVING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority of India
1, Bandra Avenue
Mumbai 400 050
New Delhi - 110002

Notes:

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS 06

Leo Associates South Asia Pvt. Ltd.
A-420, New Friends Colony,
New Delhi - 110029
Phone - 4342001, 4342002



LANDSCAPE PLAN FOR PACKAGE: 1A, TCS-12 (Rural)

Landscape Section: 205.51-231.66

Design Chainage for TCS: 32.1-35.4

Length (m): 3300

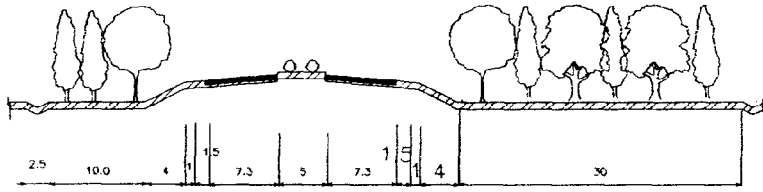
Average ROW available:60m

Space for Plantation: 12.6 Right
22.6 Left

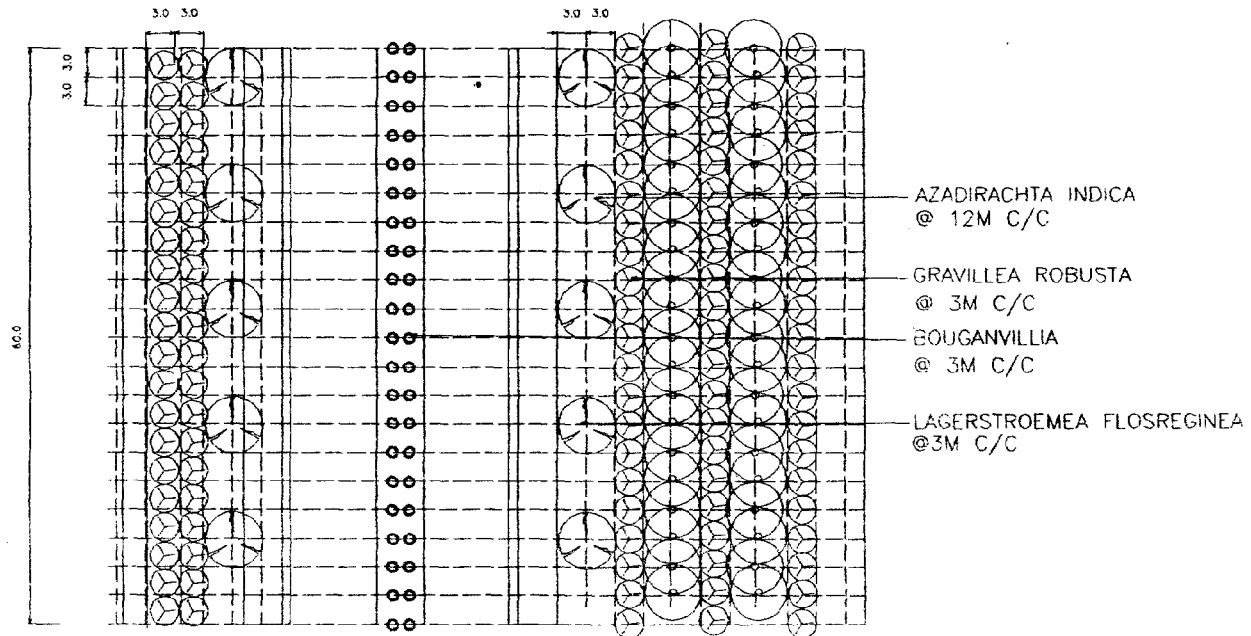
North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Mangifera indica	12	275		
	2nd row	Gravillea robusta	3	1100		
	3rd row	Cassia fistula	3	1100		
	4th row	Gravillea robusta	3	1100		
	5th row	Cassia fistula	3	1100		
South	Beyond Daylight Line					
	1st row	Mangifera indica	12	275		
	2nd row	Gravillea robusta	3	1100		
	3rd row	Cassia fistula	3	1100		
Median (5m)	Median					
	1st row	Bouganvilleae	3		1100	
	2nd row	Bouganvilleae	3		1100	
Total Section						
	Total	Mangifera indica		550		
	Total	Gravillea robusta		3300		
	Total	Cassia fistula		3300		
Total	Trees			7150		
Total	Total	Bouganvilleae			2200	
Total	Shrubs				2200	

Appendix 3

Landscape Drawings and Tree Plantation Table for Package I-B



SECTION: TCS-1,1a-a



PLAN: TCS-1,1c-c

PKG:1-B, Design CH. 12-19.4, LEFT SIDE WIDENING
ROAD LANDSCAPE SECTION: 250-307

At Ch: 260.075-260.325, one row of homelia patens @ 3m c/c to be planted in inner row on the North embankment for noise mitigation

PURAL SECTION
Average ROW available = 62m
Space for plantation = 0-30 m on right side + 10m strip on Left

LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/ROADSIDE AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTB

National Highways Authority Of India
1, Eastern Avenue
Mahatma Bhagat
New Delhi - 110005.

Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS 1A-A

Lee Associates South Asia Pvt. Ltd.
A-280, New Friends Colony,
New Delhi - 110002.
Phone - 6222800, 6222800

LANDSCAPE PLAN FOR PACKAGE: 1B, TCS-1,1a -a (Rural)

Landscape Section: 250-307

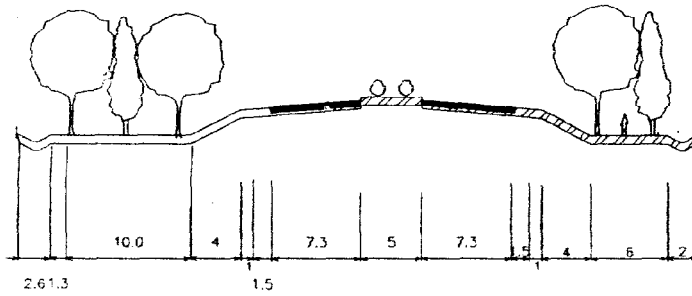
Design Chainage for TCS: 12-19.4

Length (m): 7400

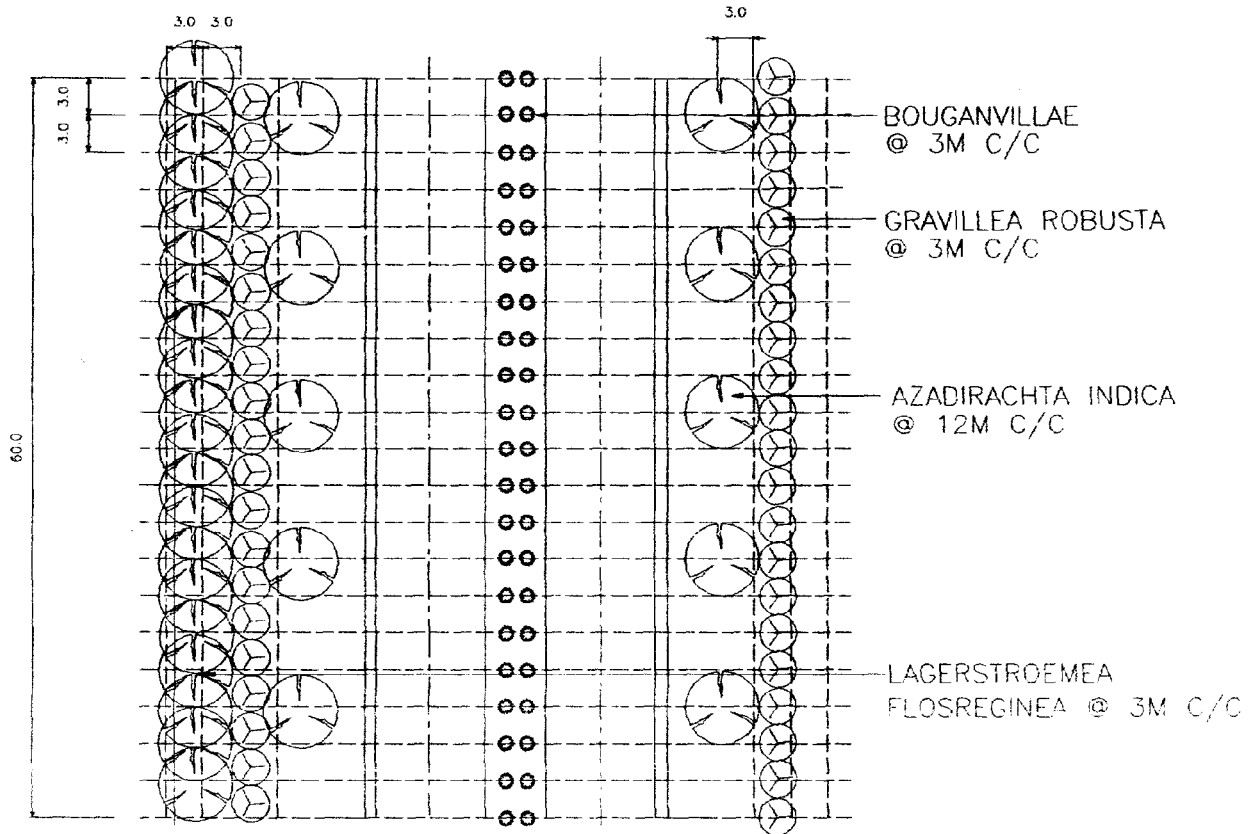
Average ROW available: 62m

Space for Plantation: 0-30 Right
10 Left

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Azadirachta indica	12	617		
	2nd row	Gravillea robusta	3	2383		
	2nd row(260.075-260.325)	Hamelia patens	3	83		
	3rd row	Gravillea robusta	3	2467		
South	Beyond Daylight Line					
	1st row	Azadirachta indica	12	617		
	2nd row	Gravillea robusta	3	2467		
	3rd row	Largerstroemea flosreginea	3	2467		
	4th row	Gravillea robusta	3	2467		
	5th row	Largerstroemea flosreginea	3	2467		
	6th row	Gravillea robusta	3	2467		
Median (5m)	Median					
	1st row	Bouganvillae	3		2467	
	2nd row	Bouganvillae	3		2467	
Total Section						
	Total	Azadirachta indica		1233		
	Total	Gravillea robusta		12250		
	Total	Largerstroemea flosreginea		4933		
	Total	Hamelia patens		83		
Total	Trees			18500		
	Total	Bouganvillae			4933	
Total	Shrubs				4933	



SECTION: TCS-1,1a-b



PLAN: TCS-1,1a-b

PKG:1-B,Design CH: 28.7-52.25, 34.05-57.0, LEFT SIDE WIDENING
 ROAD LANDSCAPE SECTION: 250-307
 At Ch.284.675-284.925(South), 290.075-290.325(South),
 292.275-292.575(North), 297.475-297.725(South),
 302.075-302.325(south), one row of Homelia patens(tall shrub)
 is to be planted in the inner row for noise mitigation

RURAL SECTION
 Average ROW available =45m
 Space for plantation =C-11m on right side
 + 10m strip on Left

- LEGEND:-**
- SHADE/ORNAMENTAL TREES
 - TALL/CONICAL AVENUE TREES
 - MEDIUM SHRUBS
 - GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
 INDEPENDENT ENVIRONMENTAL REVIEW

Scale
 NTS

National Highways Authority Of India
 1, Eastern Avenue
 Mahatma Bhagat
 New Delhi - 110002



Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
 TCS 1A-B

Leo Associates South Asia Pvt. Ltd.
 A-229, Near Preetoia Colony,
 New Delhi - 110028.
 Phone - 8828008, 8822800



LANDSCAPE PLAN FOR PACKAGE: 1B, TCS-1,1a -b (Rural)

Landscape Section: 250-307

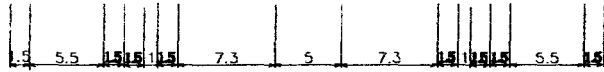
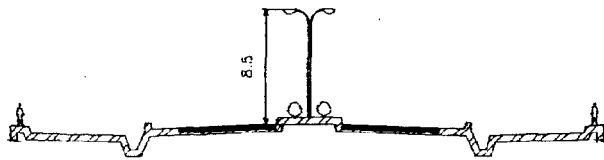
Design Chainage for TCS: 28.7-52.25, 34.05-57

Length (m): 48500

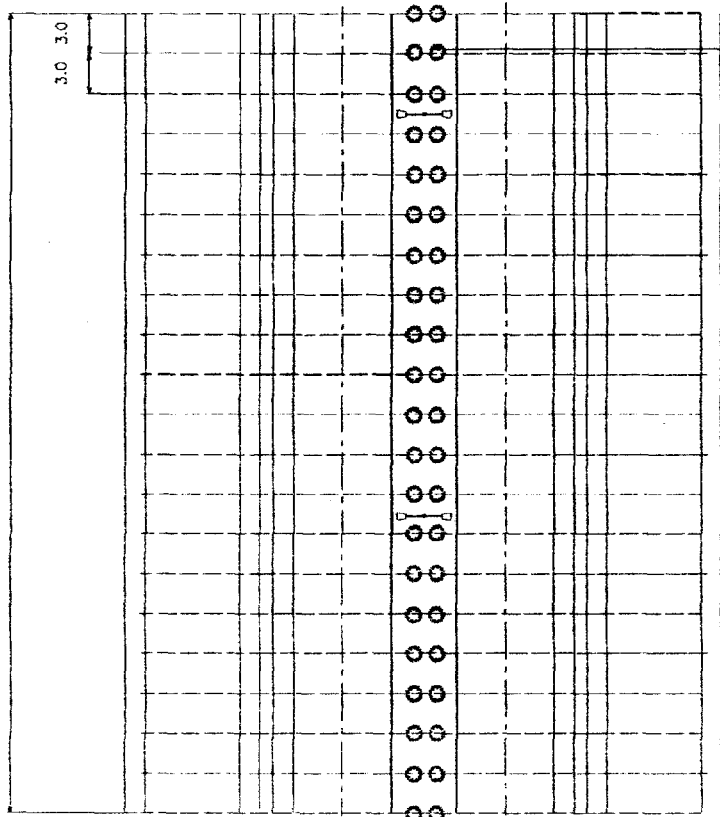
Average ROW available: 45m

Space for Plantation: 0-11 Right
10 Left

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Azadirachta indica	12	3875		
	2nd row	Gravillea robusta	3	15417		
	2nd row(292.275-292.575)	Hamelia patens	3	83		
	3rd row	Largerstroemea flosreginea	3	15500		
South	Beyond Daylight Line					
	1st row	Azadirachta indica	12	3875		
	2nd row	Gravillea robusta	3	15167		
	2nd row(284.675-284.925, 290.075-290.325, 297.475-297.725, 302.075-302.325)	Hamelia patens	3	333		
Median (5m)	Median					
	1st row	Bouganvillae	3		15500	
	2nd row	Bouganvillae	3		15500	
Total Section	Total	Azadirachta indica		7750		
	Total	Gravillea robusta		30583		
	Total	Largerstroemea flosreginea		15500		
	Total	Hamelia patens		417		
Total	Trees			54250		
Total	Total	Bouganvillae			31000	
Total	Shrubs				31000	



SECTION: TCS-2



THAVETIA NERIFOLIA
@ 3M C/C

PLAN: TCS-2

PKG.1-B.Design CH. 7-12, CONCENTRIC WIDENING
ROAD LANDSCAPE SECTION: 250-307

URBAN SECTION
Average ROW available =50m
Space for plantation =None on each side

LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/COASTAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Easton Avenue
Mineral Singh
New Delhi - 110008.

Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS 2

Leo Associates South Asia Pvt. Ltd.
A-220, New Friends Colony,
New Delhi - 110008.
Phone - 6228708, 6228808



LANDSCAPE PLAN FOR PACKAGE: 1B, TCS-2 (Urban)

Landscape Section: 250-307

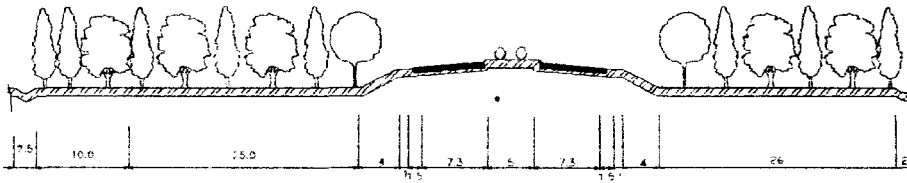
Design Chainage for TCS: 7-12

Length (m): 5000

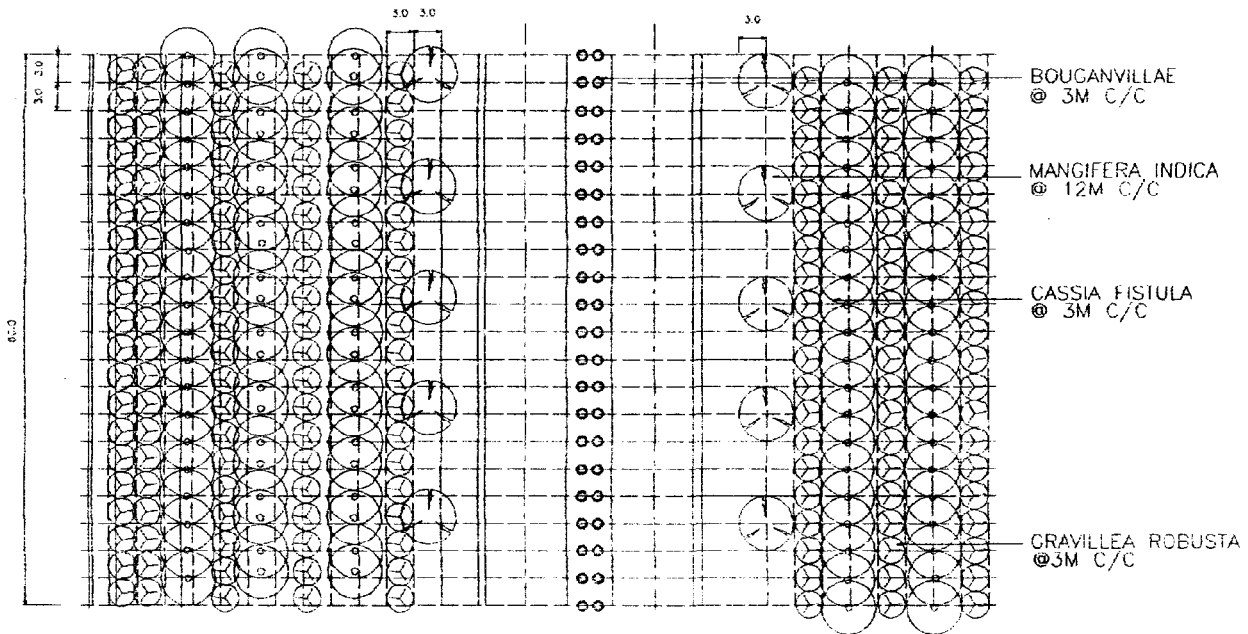
Average ROW available: 50m

Space for Plantation: None Both Sides

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
South	Beyond Daylight Line					
Median (5m)	Median					
	1st row	Thavetia nerifolia	3		1667	
	2nd row	Thavetia nerifolia	3		1667	
Total Section						
Total	Trees			0		
	Total	Thavetia nerifolia			3333	
Total	Shrubs				3333	
	Grass					0



SECTION: TCS-3-a



PLAN: TCS-3-a

PKG:1-B, Design CH: 19.4-28.7 New ALIGNMENT
ROAD LANDSCAPE SECTION: 250-307

RURAL SECTION
Average ROW available = 90m
Space for plantation = 0-25m on each side
+ 10m strip on Left

LEGEND:

	SHADE/ORIENTAL TREES
	TALL/CORONAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Eastern Avenue
Meharood Bagh
New Delhi - 110005.



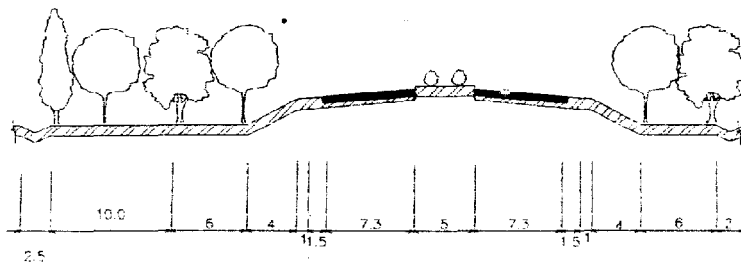
Notes:

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

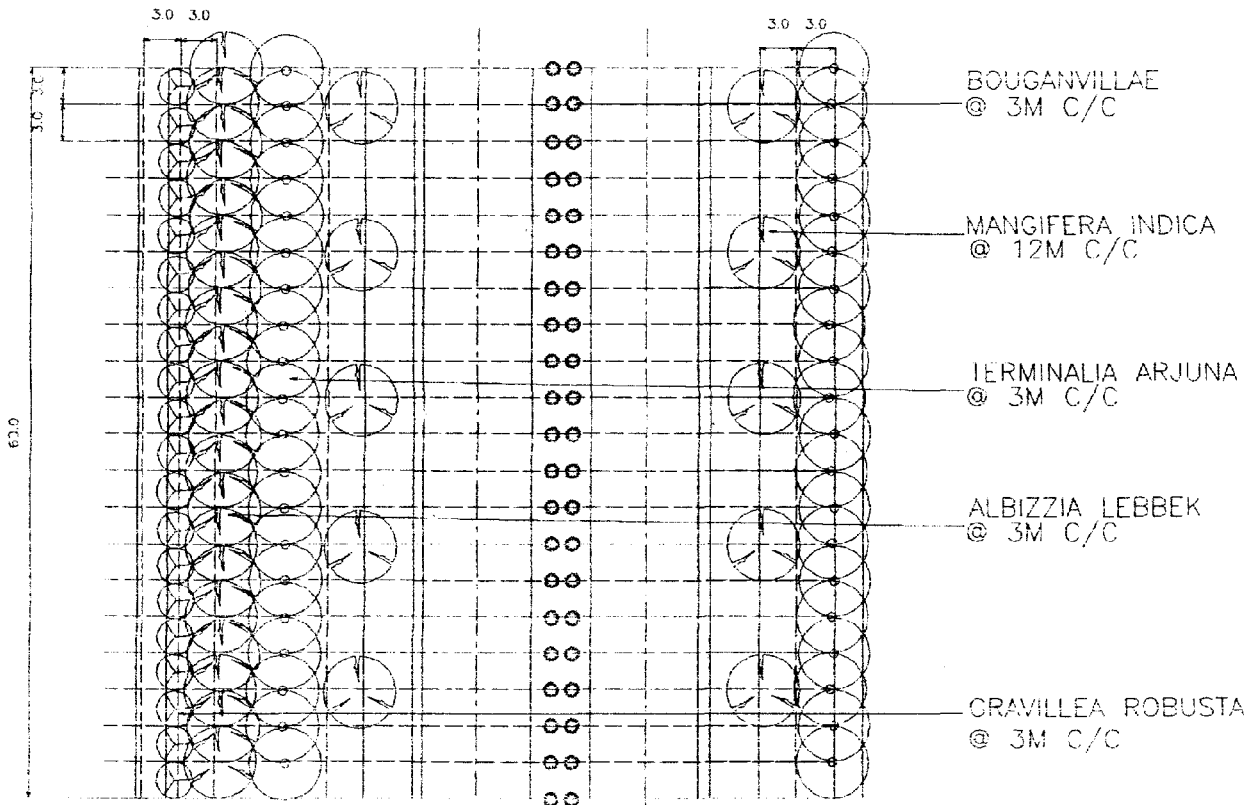
Fig. No.
TCS 3A

Lea Associates South Asia Pvt. Ltd.
A-220, New Friends Colony,
New Delhi - 110005.
Phone - 6622906, 6622600





SECTION: TCS-3-b



PLAN: TCS-3-b

PKG-1-B Design, CH: 32.25-34.05, NEW ALIGNMENT
ROAD LANDSCAPE SECTION: 250-307

RURAL SECTION
Average ROW available - 45m
Space for plantation = 0-5m on each side
+ 10m strip on Left

<p>LEGEND:-</p> <p> ENVIRONMENTAL TREES</p> <p> FULL CANOPY AVENUE TREE</p> <p> MEDIAN SHRUBS</p> <p> CROSS-TURNING</p>	<p>Project</p> <p>GRAND TRUNK ROAD IMPROVEMENT PROJECT INDEPENDENT ENVIRONMENTAL REVIEW</p> <p>Note:-</p> <p>1) No tree is to be planted within 2.5m of an existing tree. 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.</p>	<p>Scale</p> <p>NTB</p> <p>Fig. No.</p> <p>TCS 28</p>	<p>National Highways Authority of India 1, Eastern Avenue Minister's Bldg. New Delhi - 110005.</p> <p>Lea Associates South Asia Pvt. Ltd. A-230, New Friends Colony, New Delhi - 110005. Phone - 6622808, 6622809</p>
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LANDSCAPE PLAN FOR PACKAGE: 1B, TCS-3-b (Rural)

Landscape Section: 250-307

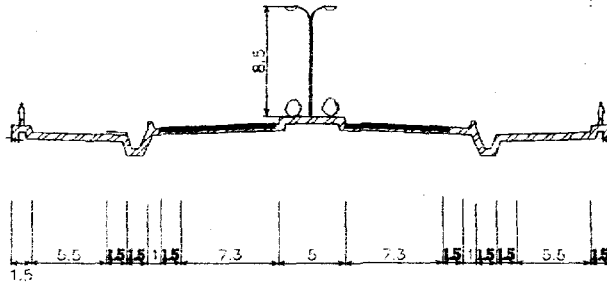
Design Chainage for TCS: 32.25-34.05

Length (m): 1800

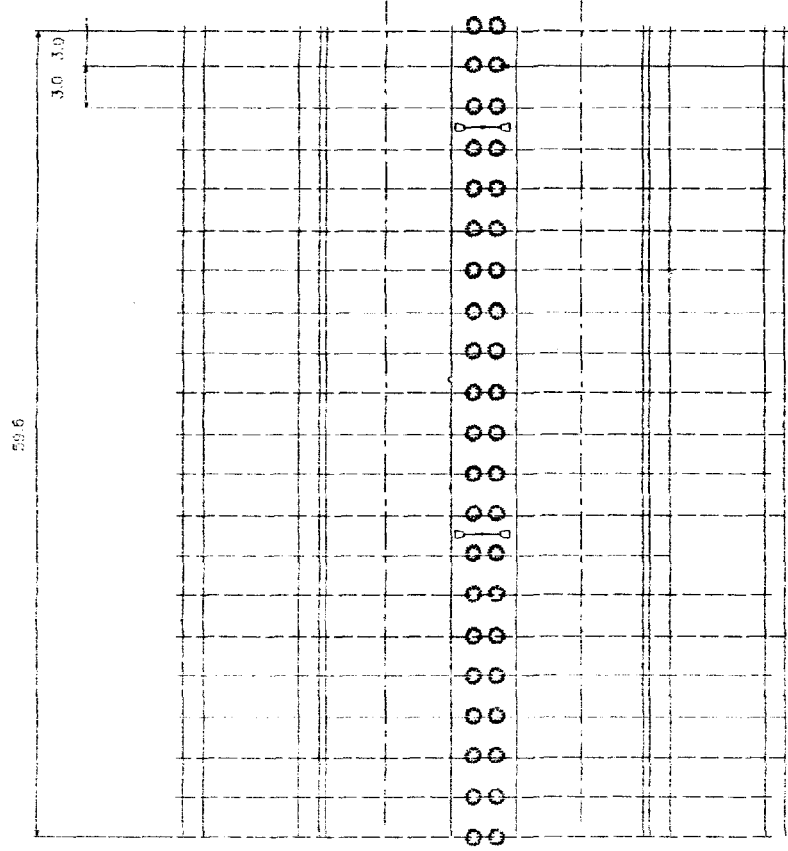
Average ROW available: 45m

Space for Plantation: 6 Right
 10 Left

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Magnifera indica	12	150		
	2nd row	Terminalia arjuna	3	600		
	3rd row	Albezzia Lebbek	3	300		
	4th row	Gravillea robusta	3	300		
South	Beyond Daylight Line					
	1st row	Magnifera indica	12	150		
	2nd row	Terminalia arjuna	3	600		
Median (5m)	Median					
	1st row	Bouganvillae	3		600	
	2nd row	Bouganvillae	3		600	
Total Section						
	Total	Magnifera indica		300		
	Total	Terminalia arjuna		1200		
	Total	Albezzia Lebbek		300		
	Total	Gravillea robusta		300		
Total	Trees			2100		
	Total	Bouganvillae			1200	
Total	Shrubs				1200	



SECTION: TCS-4



THAVETIA NERIFOLIA
@ 3M C/C

PLAN: TCS-4

Part I-B, Design CH - 49.1-43.3, 51.8-54.3, RIGHT SIDE WIDENING
ROAD LANDSCAPE SECTION: 250/30

URBAN SECTION
Average ROW available = 45m
Space for plantation = None

LEGEND:-

	SHADE/ORNAMENTAL TREE
	TROPICAL AERIAL TREE
	MULBERRY TREE
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Eastern Avenue
Maharaj Bagh
New Delhi - 110002.

Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

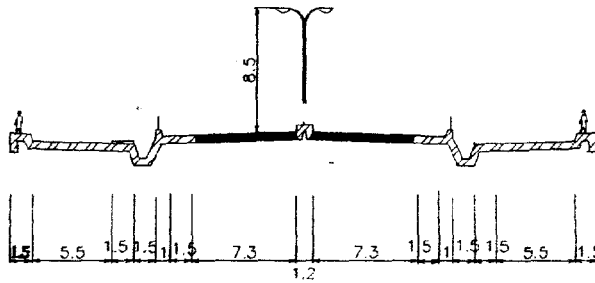
Fig. No.
TCS 4

Leo Associates South Asia Pvt. Ltd.
A-220, New Pataudi Colony,
New Delhi - 110028.
Phone - 6222803, 6228800

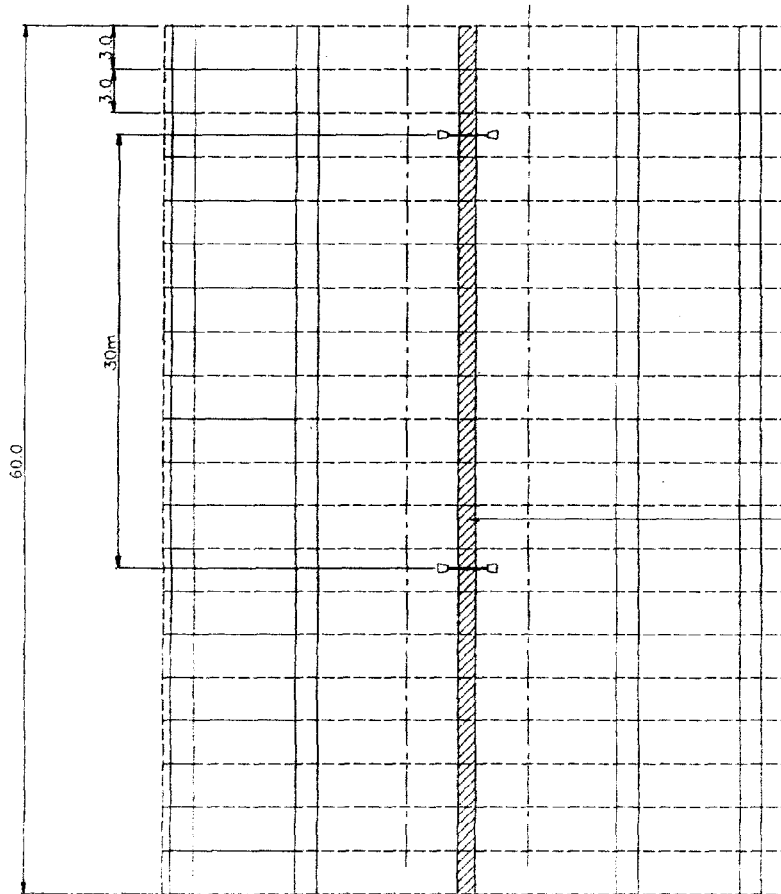


Appendix 4

Landscape Drawings and Tree Plantation Table for Package I-C



SECTION: TCS-1, 1a



PLAN: TCS-1, 1a

PK 0+1 - C, Design CH: 0+2, 9.8-10.70, 14.6-15.3, 55.9-62, 63.4-64.4,
 66.2-67.3. CONCENTRIC WIDENING
 ROAD LANDSCAPE SECTION: 321-393
 At ch. 332.075-332.325(N), 335.975-336.225(N), one row of cassia biflora
 (tax shrub) @ 3m c/c to be planted in inner row, where ever space is available

URBAN SECTION
 Average ROW available = 42
 Space for plantation = None

LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/CORNICAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
 INDEPENDENT ENVIRONMENTAL REVIEW

Notes:-

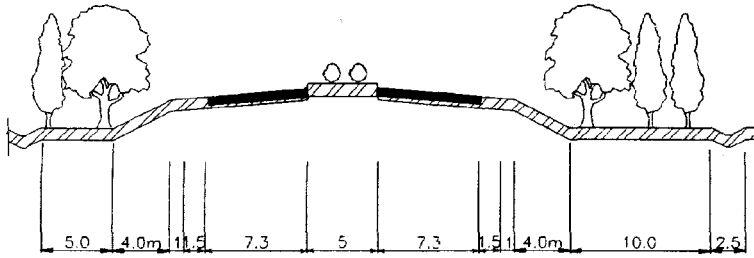
- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Scale
 NTS

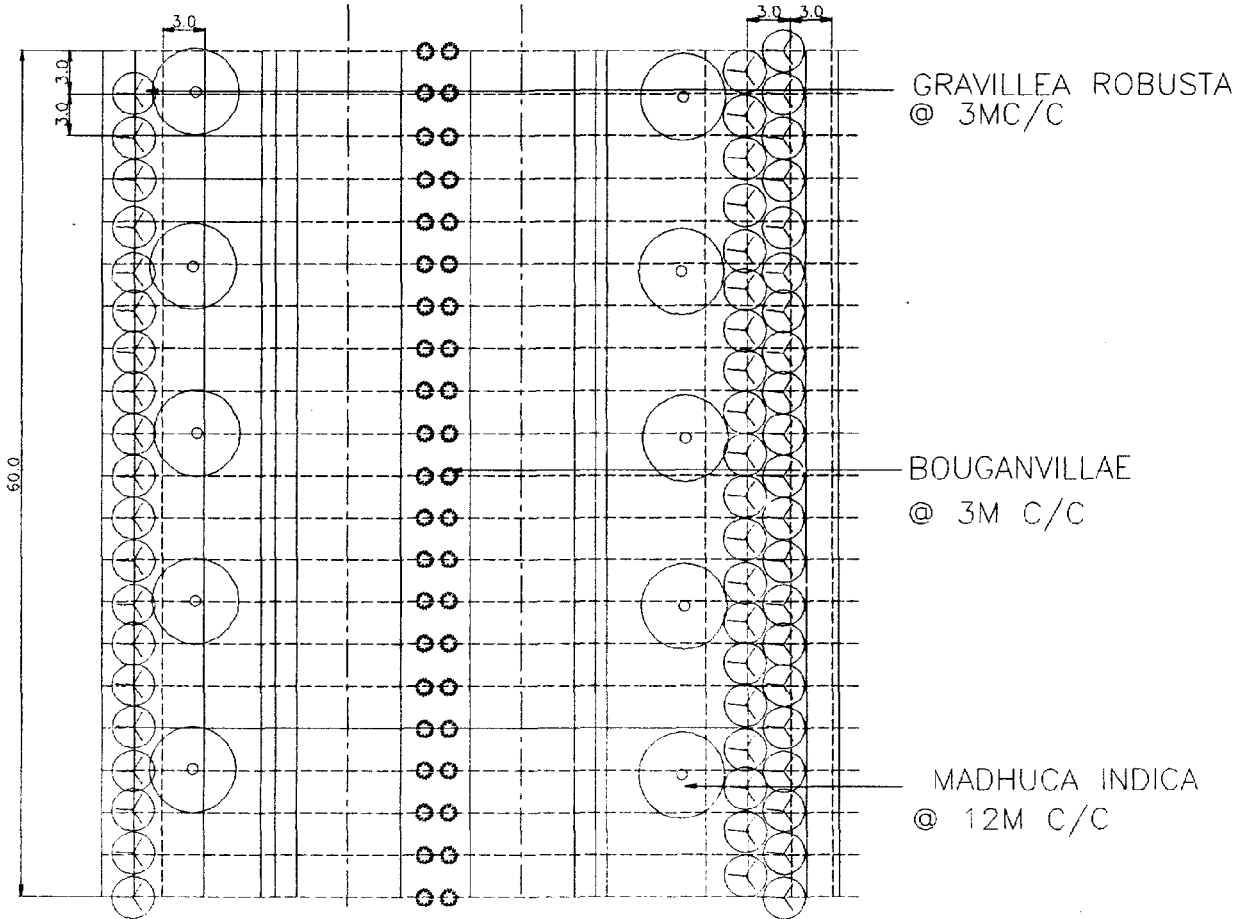
Fig. No.
 TCS 01
 &
 TCS 01A

National Highways Authority Of India
 1, Eastern Avenue
 Indraprastha
 New Delhi - 110002.

Leo Associates South Asia Pvt. Ltd.
 A-220, New Friends Colony,
 New Delhi - 110002.
 Phone - 622200, 622200



SECTION: TCS-2-a



PLAN: TCS-2-a

PKG-1- C, Design CH: 10.7-14.6, 6.25-9.8, 29.26-32
 RIGHT SIDE WIDENING
 ROAD LANDSCAPE SECTION: 321-393
 At 334.275-334.525(N), one row of
 Hamelia patens (tall shrub) to be planted @ 3m c/c
 in the inner row(south side)for noise mitigation

RURAL SECTION
 Average ROW available =40
 Space for plantation =7.4m on left side
 + 10m strip on Right

- LEGEND:-**
- SHADE/ORNAMENTAL TREES
 - TALL/COLONIAL AVENUE TREES
 - MEDIAN SHRUBS
 - GRASS TURBING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
 INDEPENDENT ENVIRONMENTAL REVIEW

Scale
 NTS

National Highways Authority Of India
 1, Eastern Avenue
 Mahatma Rajgh
 New Delhi - 110001.

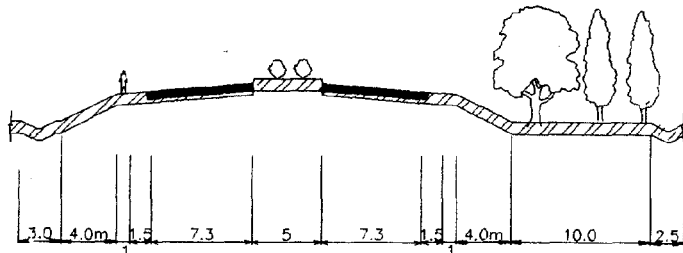


- Notes:-**
- 1) No tree is to be planted within 2.5m of an existing tree.
 - 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

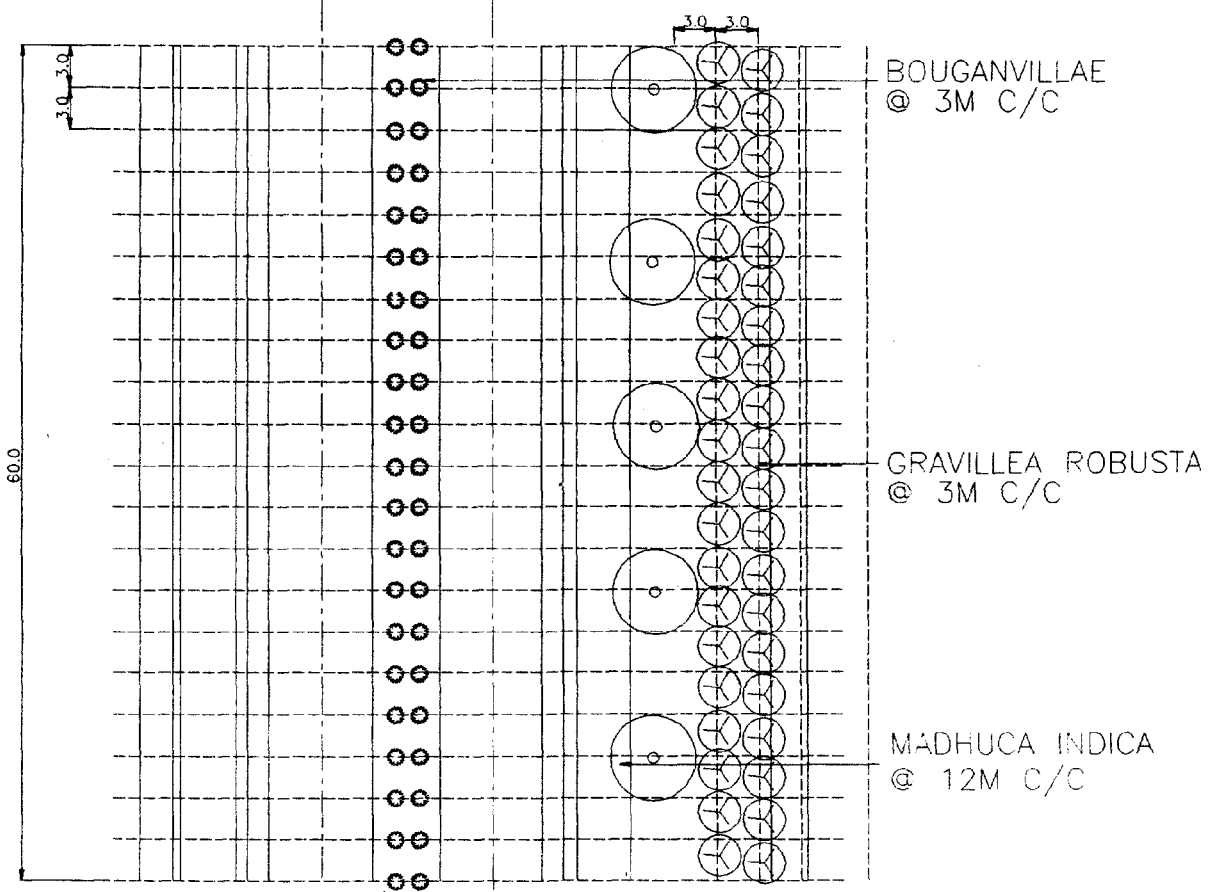
Fig. No.
 TCS 2A

Lee Associates South Asia Pvt. Ltd.
 A-220, New Panama Colony,
 New Delhi - 110028.
 Phone - 6622800, 6622800





SECTION: TCS-2-b



PLAN: TCS-2-b

PKG:1- C. Design CH: 2-5.1, 46.7-47.9, 48.5-55.9. CONCENTRIC ROAD LANDSCAPE SECTION: 321-393

RURAL SECTION
Average ROW available = 36
Space for plantation = 0m on each side
+ 10m strip on Right

- LEGEND:-**
- SHADE / ORNAMENTAL TREES
 - TALL / CONICAL AVENUE TREES
 - MEDIAN SHRUBS
 - GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Eastern Avenue
Minister's Bldg.
New Delhi - 110002.



- Note:-**
- 1) No tree is to be planted within 2.5m of an existing tree.
 - 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS 2B

Lee Associates South Asia Pvt. Ltd.
A-202, New Friends Colony,
New Delhi - 110002.
Phone - 622200, 622200



LANDSCAPE PLAN FOR PACKAGE: 1C, TCS-2b (Rural)

Landscape Section: 321-393

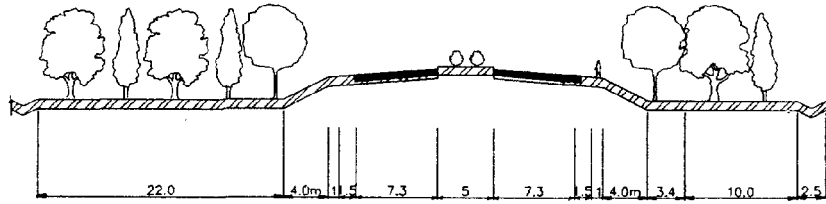
Design Chainage for TCS: 2-5.1, 46.7-47.9, 48.5-55.9

Length (m): 11700

Average ROW available: 36m

Space for Plantation: 10m Right

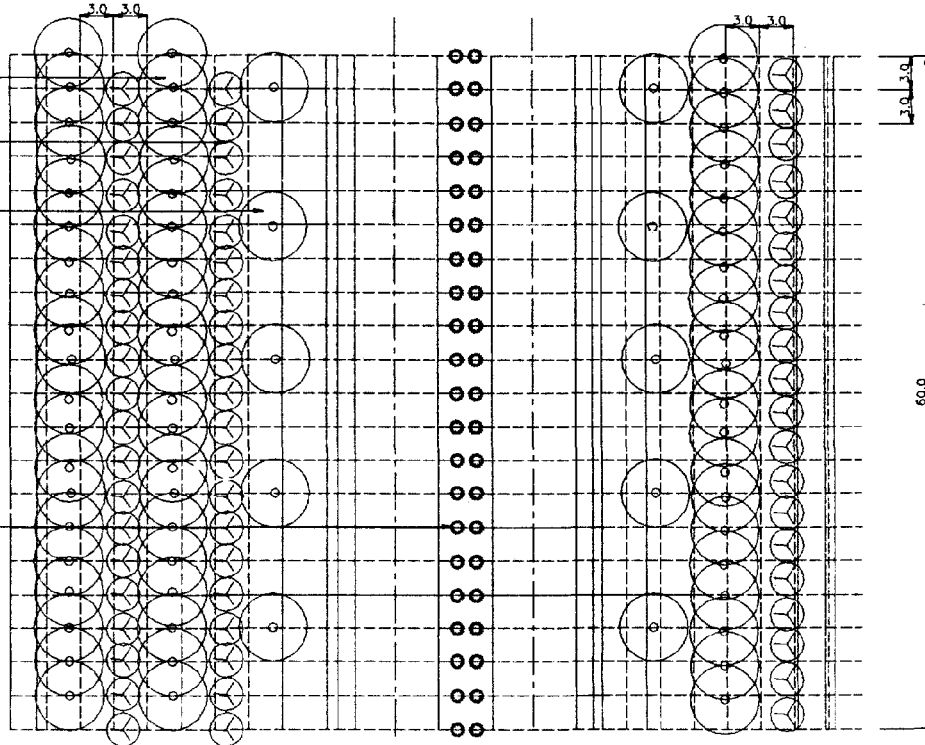
North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
South	Beyond Daylight Line					
	1st row	Madhuca indica	12	975		
	2nd row	Gravillea robusta	3	3900		
	3rd row	Gravillea robusta	3	3900		
Median (5m)	Median					
	1st row	Bouganvillae	3		3900	
	2nd row	Bouganvillae	3		3900	
Total Section						
	Total	Madhuca indica		975		
	Total	Gravillea robusta		7800		
Total	Trees			8775		
	Total	Bouganvillae			7800	
Total	Shrubs				7800	



SECTION: TCS-2-c

CASSIA NODOSA
@ 3M C/C
GRAVILLEA ROBUSTA
@ 3M C/C
MADHUCA INDICA
@ 12M C/C

BOUGANVILLAE
@ 3M C/C



PLAN: TCS-2-C

PKG:1- C, Design CH: 19.6-20.8, RIGHT SIDE WIDENING
ROAD LANDSCAPE SECTION: 321-393

RURAL SECTION
Average ROW available = 60m
Space for plantation = 23.38m on left side
3.03m on right side
+ 10m strip on Right

LEGEND:-

- SHADE/ORNAMENTAL TREES
- TALL/CORICAL AVENUE TREES
- MEDIAN SHRUBS
- GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Eastern Avenue
Maitani Singh
New Delhi - 110028



Notes:-
1) No tree is to be planted within 2.5m of an existing tree.
2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS 2C

Leo Associates South Asia Pvt. Ltd.
A-52, New Friends Colony,
New Delhi - 110028
Phone - 6122000, 6122000



LANDSCAPE PLAN FOR PACKAGE: 1C, TCS-2c(Rural)

Landscape Section:321-393

Design Chainage for TCS: 19.6 -20.8

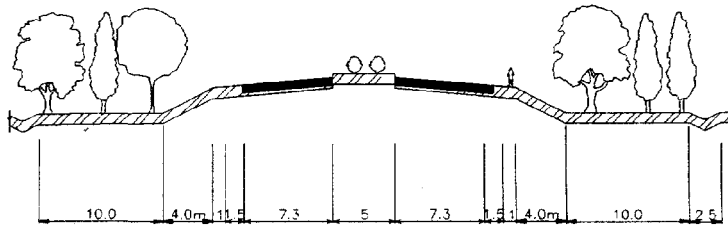
Length (m): 1200

Average ROW available: 60m

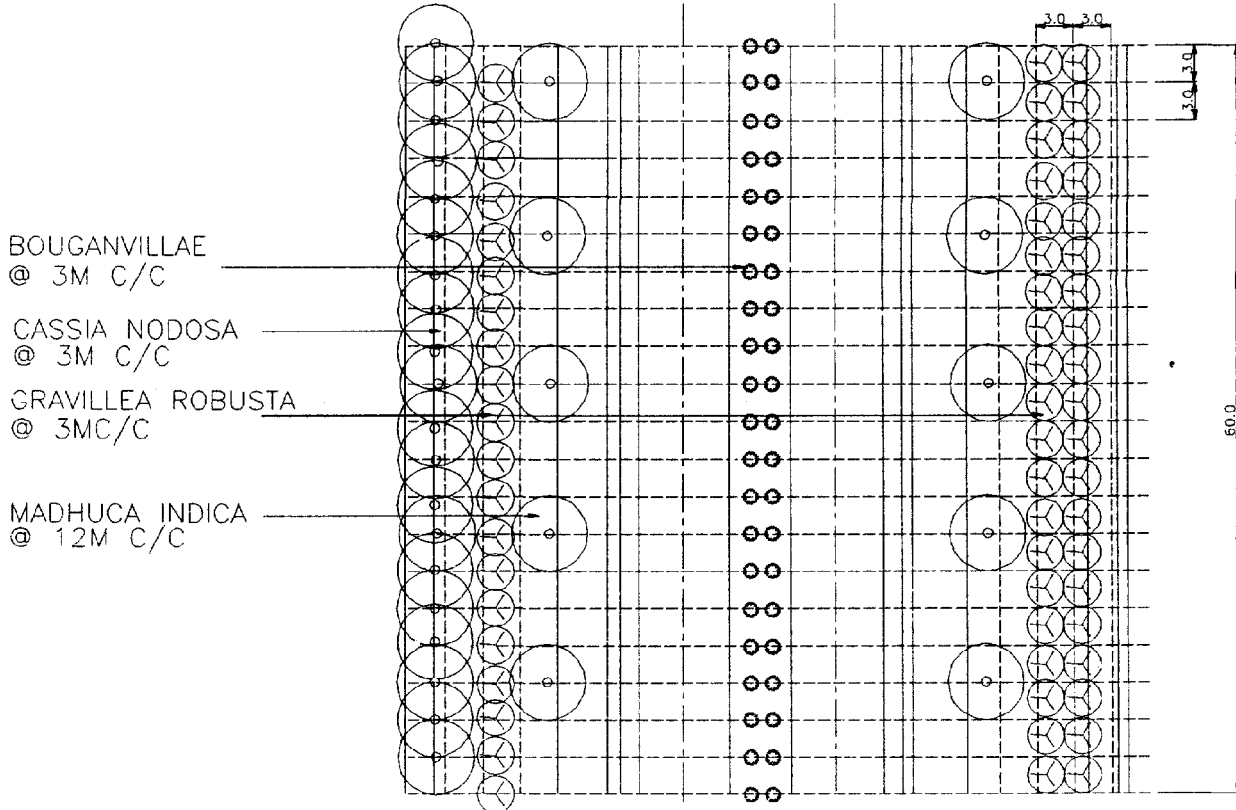
Space for Plantation: 23.38 Left

13.03 Right

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Madhuca indica	12	100		
	2nd row	Gravillea robusta	3	400		
	3rd row	Cassia Nodosa	3	400		
	4th row	Gravillea robusta	3	400		
	5th row	Cassia Nodosa	3	400		
South	Beyond Daylight Line					
	1st row	Madhuca indica	12	100		
	2nd row	Cassia Nodosa	3	400		
	3rd row	Gravillea robusta	3	400		
Median (5m)	Median					
	1st row	Bouganvillae	3		400	
	2nd row	Bouganvillae	3		400	
Total Section						
	Total	Madhuca indica		200		
	Total	Gravillea robusta		1200		
	Total	Cassia Nodosa		800		
Total	Trees			2200		
	Total	Bouganvillae			800	
Total	Shrubs				800	



SECTION: TCS-2-d



PLAN: TCS-2-d

PKG-1- C, Design CH: 62-63.4, 64.8-66.2, 67.3-68.6, 69.9-72.85
 RIGHT SIDE WIDENING
 ROAD LANDSCAPE SECTION: 321-393

RURAL SECTION
 Average ROW available = 45M
 Space for plantation = 12m on left side
 + 10m strip on Right

- LEGEND:-**
- SHADE/ORNAMENTAL TREES
 - TALL/CONICAL AVENUE TREES
 - MEDIAN SHRUBS
 - GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
 INDEPENDENT ENVIRONMENTAL REVIEW

Scale
 NTS

National Highways Authority of India
 1, Eastern Avenue
 Mahatma Square
 New Delhi - 110006.



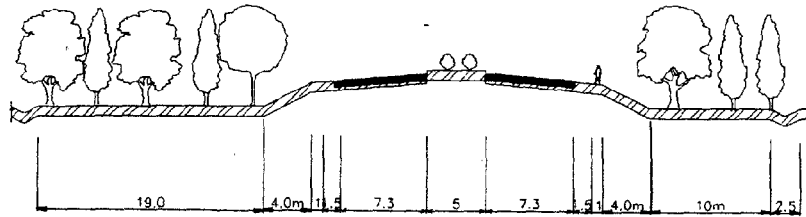
Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
 TCS 2D

Lea Associates South Asia Pvt. Ltd.
 A-220, New Pritam Colony,
 New Delhi - 110006.
 Phone - 6822800, 6822800





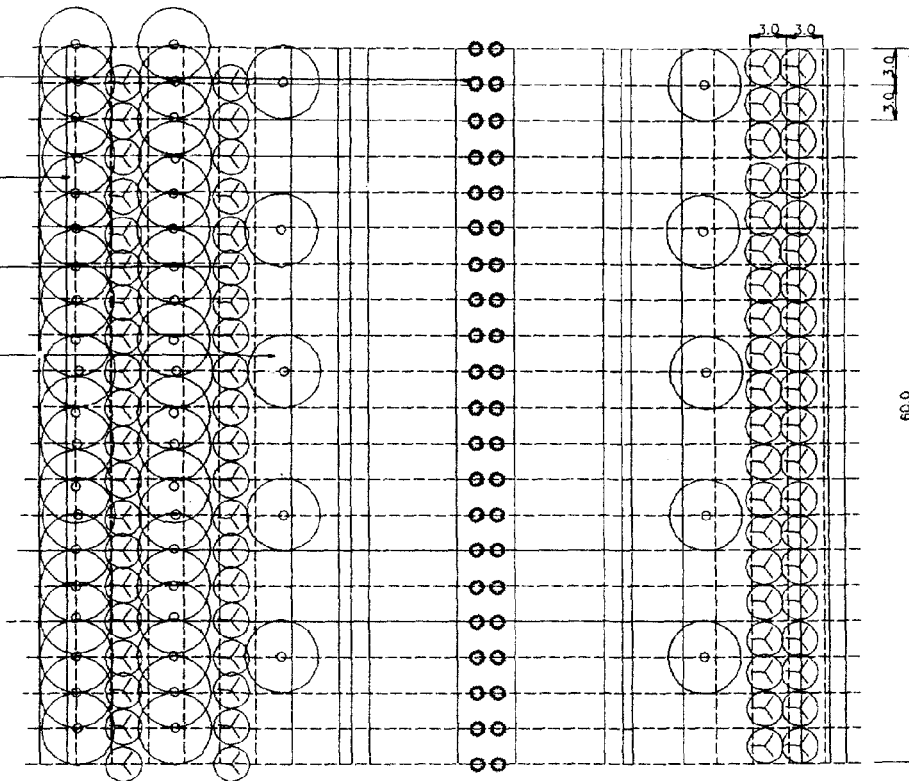
SECTION: TCS-2-e

BOUGANVILLEAE
@ 3M C/C

COSSIA NODOSA
@ 3M C/C

GRAVILLEA ROBUSTA
@ 3M C/C

MADHUCA INDICA
@ 12M C/C



PLAN: TCS-2-e

PkG:1- C. Design CH: 38.10-39.10 RIGHT SIDE WIDENING
ROAD LANDSCAPE SECTION: 321-393

RURAL SECTION
Average ROW available =54M
Space for plantation ≈21.3m on left side
+ 10m strip on Right

- LEGEND:-**
- SHADE/ORNAMENTAL TREES
 - TALL/CONICAL AVENUE TREES
 - MEDIAN SHRUBS
 - GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Connaught Avenue
Minister's Bldg
New Delhi - 110028.

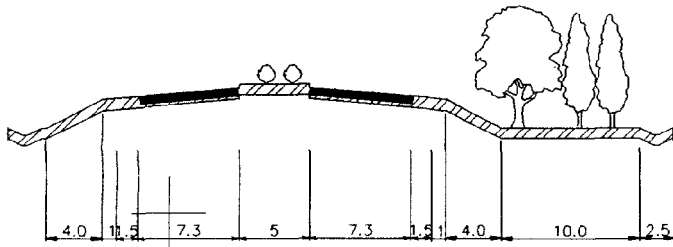


- Notes:-**
- 1) No tree is to be planted within 2.5m of an existing tree.
 - 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

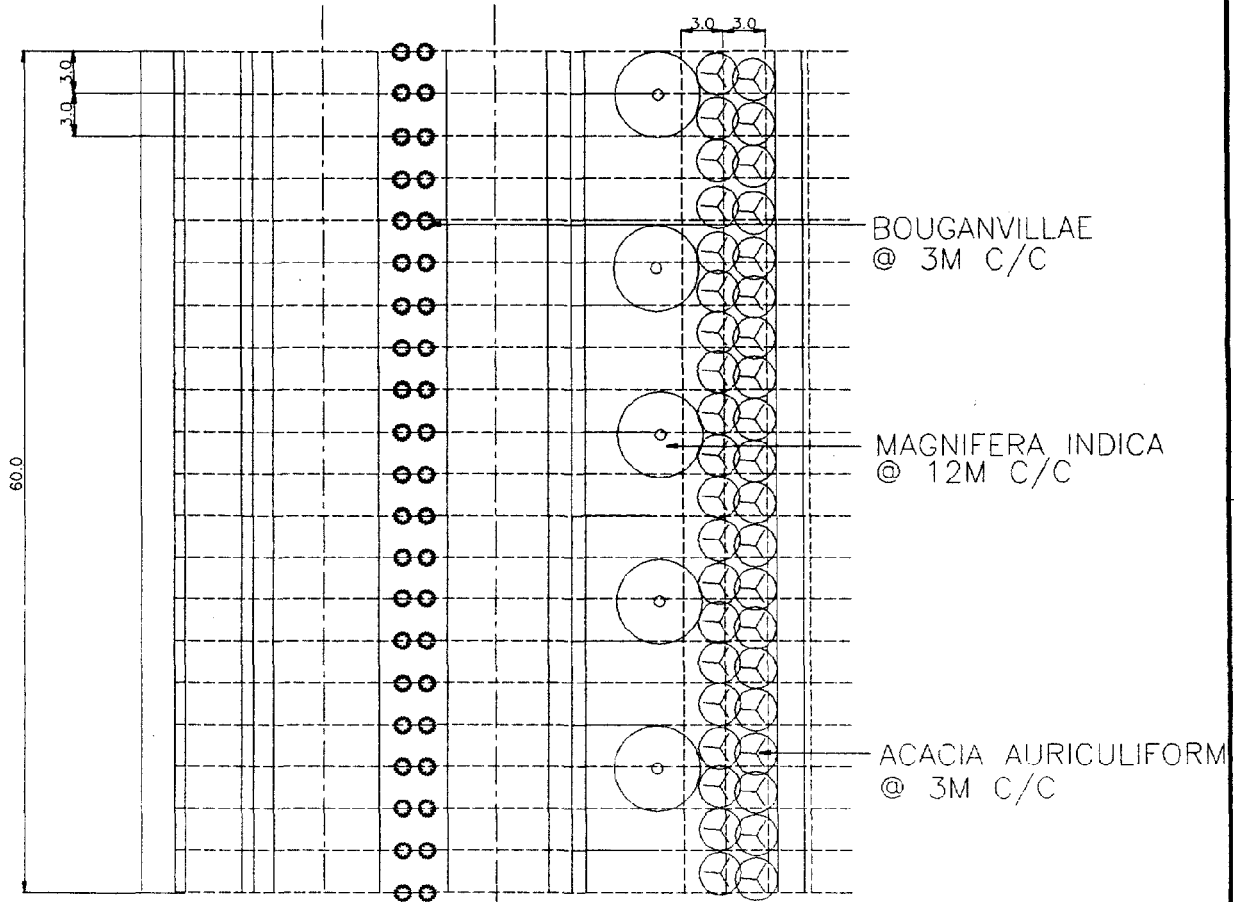
Fig. No.
TCS 2E

Lee Associates South Asia Pvt. Ltd.
A-203, New Friends Colony,
New Delhi - 110028.
Phone - 6222000, 6222000





SECTION: TCS-3-a



PLAN: TCS-3-a

PKG:1- C, DESIGN CH: 47.9-48.5, Concentric Widening
 ROAD LANDSCAPE SECTION: 321-393
 At 368.775-369.025, an extra row of shrubs to be planted
 on the south side for noise mitigation

RURAL SECTION
 Average ROW available = 32
 Space for plantation = 0 on Each side
 + 10m strip on Right

LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
 INDEPENDENT ENVIRONMENTAL REVIEW

Scale
 NTS

National Highways Authority of India
 1, Eastern Avenue
 Mahatma Singh
 New Delhi - 110001.

Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
 TCS 3A

Leo Associates South Asia Pvt. Ltd.
 A-228, Near Palamda Colony,
 New Delhi - 110028.
 Phone - 01122001, 01122002



LANDSCAPE PLAN FOR PACKAGE: 1C, TCS-3a(Rural)

Landscape Section:321-393

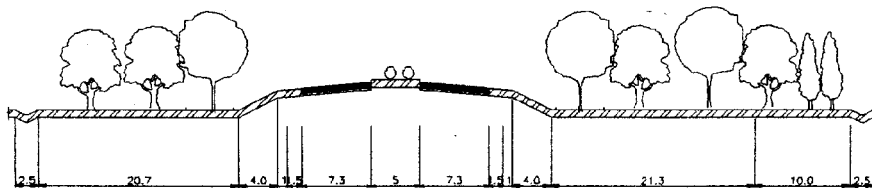
Design Chainage for TCS: 47.9-48.5

Length (m): 600

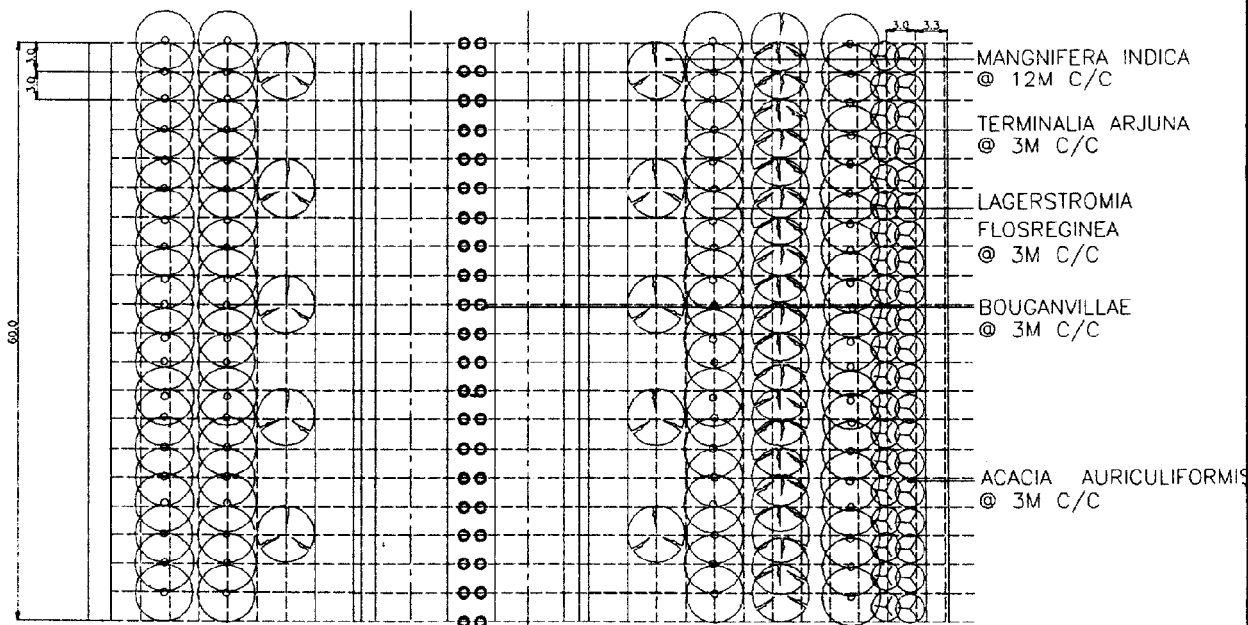
Average ROW available: 37m

Space for Plantation: 4.4 Right

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
South	Beyond Daylight Line					
	1st row	Mangifera indica	12	50		
	2nd row	Acacia Auriculiformis	3	200		
	3rd row	Acacia Auriculiformis	3	200		
	2nd row(368.775-369.025)	Acacia Auriculiformis	3	83		
Median (5m)	Median					
	1st row	Bouganvillae	3		200	
	2nd row	Bouganvillae	3		200	
Total Section						
	Total	Mangnifera indica		50		
	Total	Acacia Auriculiformis		400		
Total	Trees			450		
	Total	Bouganvillae			400	
Total	Shrubs				400	



SECTION: TCS-3-b



PLAN: TCS-3-b

PKG:1- C.Design CH: 5.1-6.25,19.3-19.6,20.8-29.26,32.0-38.1,39.1-45.8,Concentric
 ROAD LANDSCAPE SECTION: 321-393

RURAL SECTION
 Average ROW available =80
 Space for plantation =23.75m on Each side
 + 10m strip on Right

LEGEND:-

	SHADE/ORIENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
 INDEPENDENT ENVIRONMENTAL REVIEW

Scale
 NTS

National Highways Authority Of India
 1, Garden Avenue
 Mahatma Road
 New Delhi - 110002

Note:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
 TCS 3B

Leo Associates South Asia Pvt. Ltd.
 A-202, New Pritam Colony,
 New Delhi - 110028
 Phone - 622202, 622209

LANDSCAPE PLAN FOR PACKAGE: 1C, TCS-3b(Rural)

Landscape Section: 321-393

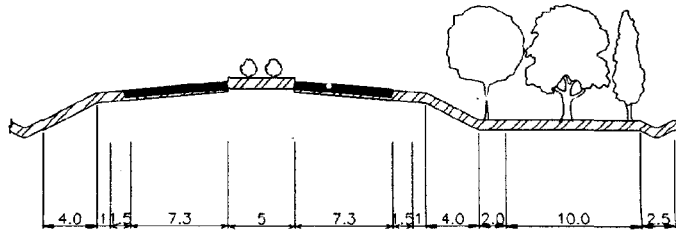
Design Chainage for TCS: 5.1-6.25, 19.3-19.6, 20.8-29.26, 32-38.1, 39.1-45.8,

Length (m): 22710

Average ROW available: 80m

Space for Plantation: 23.75 Left
33.75 Right

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Mangifera indica	12	1893		
	2nd row	Lagerstromia flosreginea	3	7570		
	3rd row	Terminalia Arjuna	3	7570		
South	Beyond Daylight Line					
	1st row	Mangifera indica	12	1893		
	2nd row	Lagerstromia flosreginea	3	7570		
	3rd row	Terminalia Arjuna	3	7570		
	4th row	Lagerstromia flosreginea	3	7570		
	5th row	Acacia auriculiformis	3	7570		
	6th row	Acacia auriculiformis	3	7570		
Median (5m)	Median					
	1st row	Bouganvillae		3	7570	
	2nd row	Bouganvillae		3	7570	
Total Section						
	Total	Mangifera indica		3785		
	Total	Lagerstromia flosreginea		22710		
	Total	Terminalia Arjuna		15140		
	Total	Acacia auriculiformis		15140		
Total	Trees			56775		
	Total	Bouganvillae			15140	
Total	Shrubs				15140	



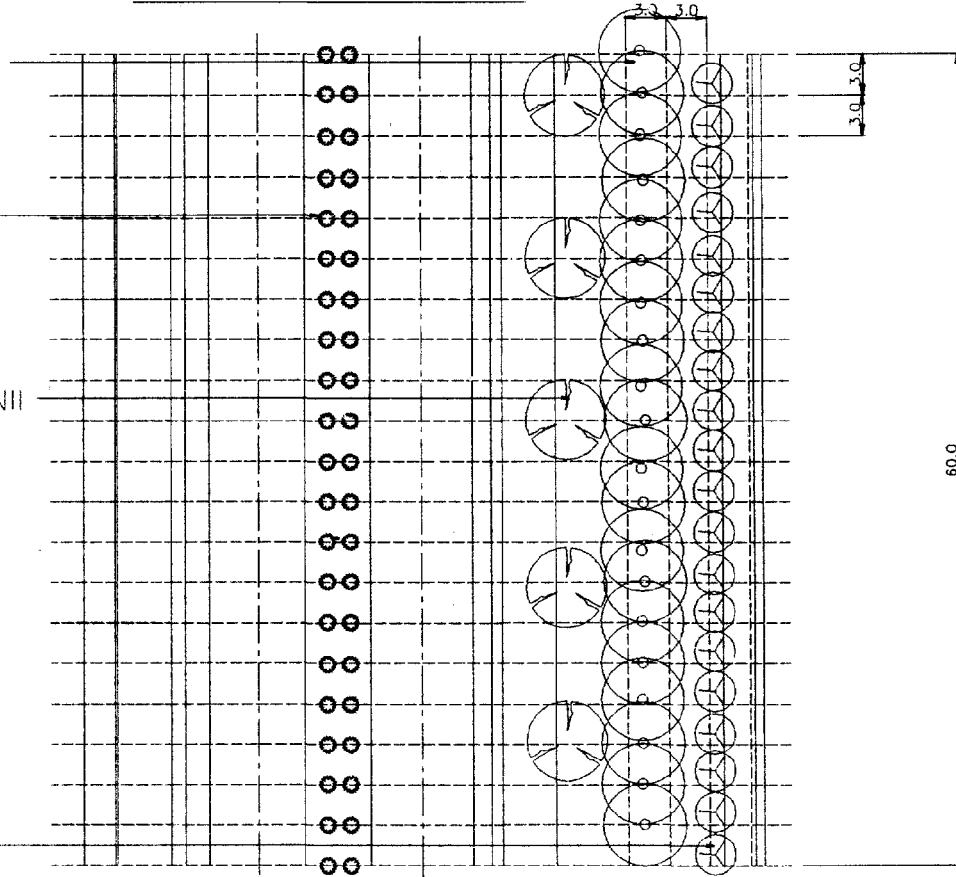
SECTION: TCS-4-a

LAGER STROMIA
FLOOSREGINEA
@ 3M C/C

BOUGANVILLAE
@ 3M C/C

SYZYBIUM CUMINII
@ 12M C/C

ACACIA
AURICULIFORMIS
@ 3M C/C



PLAN: TCS-4-a

PKG: - C. Design CH: 45.8-46.7 ,LEFT SIDE WIDENING
ROAD LANDSCAPE SECTION: 321-393
Space for plantation =10m strip on right side

RURAL SECTION
Average ROW available =37
Space for plantation =0m on Left side
4.4m on Right side
+ 10m strip on Right

LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Rashtrapati Bhawan
Mahatma Road
New Delhi - 110002.

Notes:-
1) No tree is to be planted within 2.5m of an existing tree.
2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS 4A

Lee Associates South Asia Pvt. Ltd.
A-22, New Pandra Colony,
New Delhi - 110028.
Phone - 6222824, 6222825



LANDSCAPE PLAN FOR PACKAGE: 1C, TCS-4a(Rural)

Landscape Section:321-393

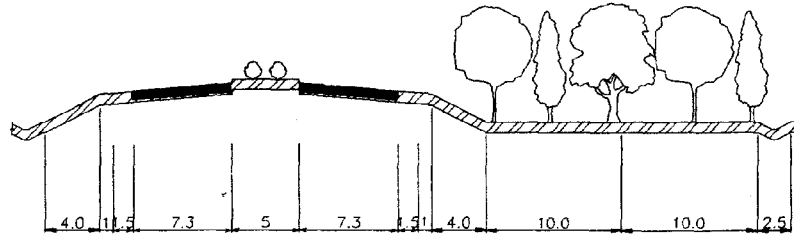
Design Chainage for TCS: 45.8-46.7

Length (m): 900

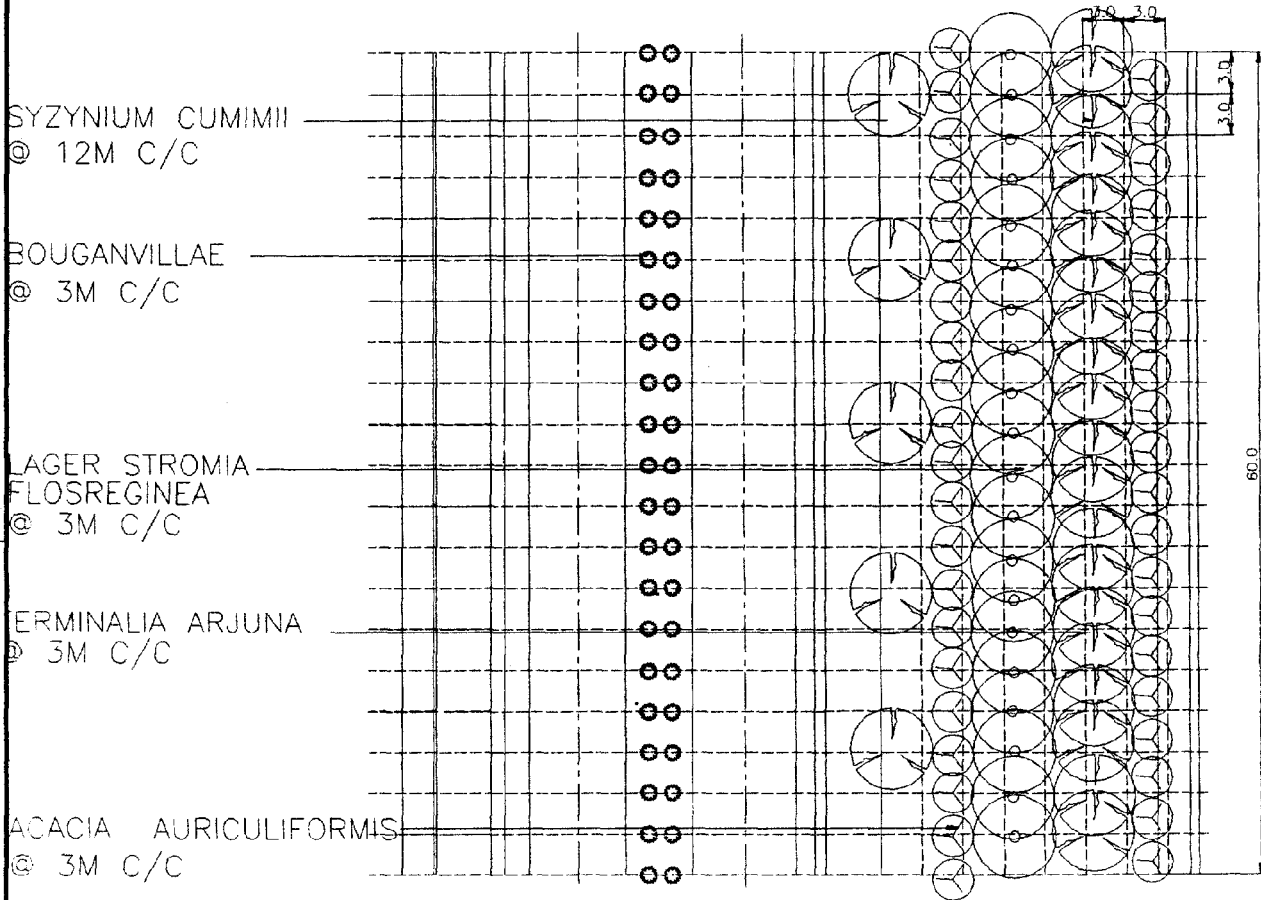
Average ROW available: 37m

Space for Plantation: 14.4 Right

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
South	Beyond Daylight Line					
	1st row	Syzynium cumini	12	75		
	2nd row	Lagerstromia flosreginea	3	300		
	3rd row	Acacia Auriculiformis	3	300		
Median (5m)	Median					
	1st row	Bouganvillae	3		300	
	2nd row	Bouganvillae	3		300	
Total Section						
	Total	Syzynium cumini		75		
	Total	Lagerstromia flosreginea		300		
	Total	Acacia Auriculiformis		300		
Total	Trees			675		
	Total	Bouganvillae			600	
Total	Shrubs				600	



SECTION: TCS-4-b



PLAN: TCS-4-b

PKG:1- C. Design CH: 68.00-69.90 ,LEFT SIDE WIDENING
ROAD LANDSCAPE SECTION: 321-393

RURAL SECTION
Average ROW available =45M
Space for plantation =0m on Left side
12.4m on Right side

LEGEND:-
 SHADE/ORNAMENTAL TREES
 TALL/CONICAL AVENUE TREES
 MEDIAN SHRUBS
 GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
 INDEPENDENT ENVIRONMENTAL REVIEW

Scale
 NTS

National Highways Authority Of India
 1, Eastern Avenue
 Mahatma Bhagat
 New Delhi - 110002.



Notes:-
 1) No tree is to be planted within 2.5m of an existing tree.
 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
 TCS 4B

Leo Associates South Asia Pvt. Ltd.
 A-202, New Friends Colony,
 New Delhi - 110029.
 Phone - 6622222, 6622222



LANDSCAPE PLAN FOR PACKAGE: 1C, TCS-4b(Rural)

Landscape Section: 321-393

Design Chainage for TCS: 68-69.9

Length (m): 1900

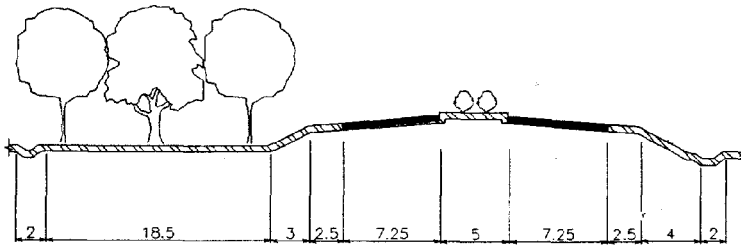
Average ROW available: 45m

Space for Plantation: 12.4 Right

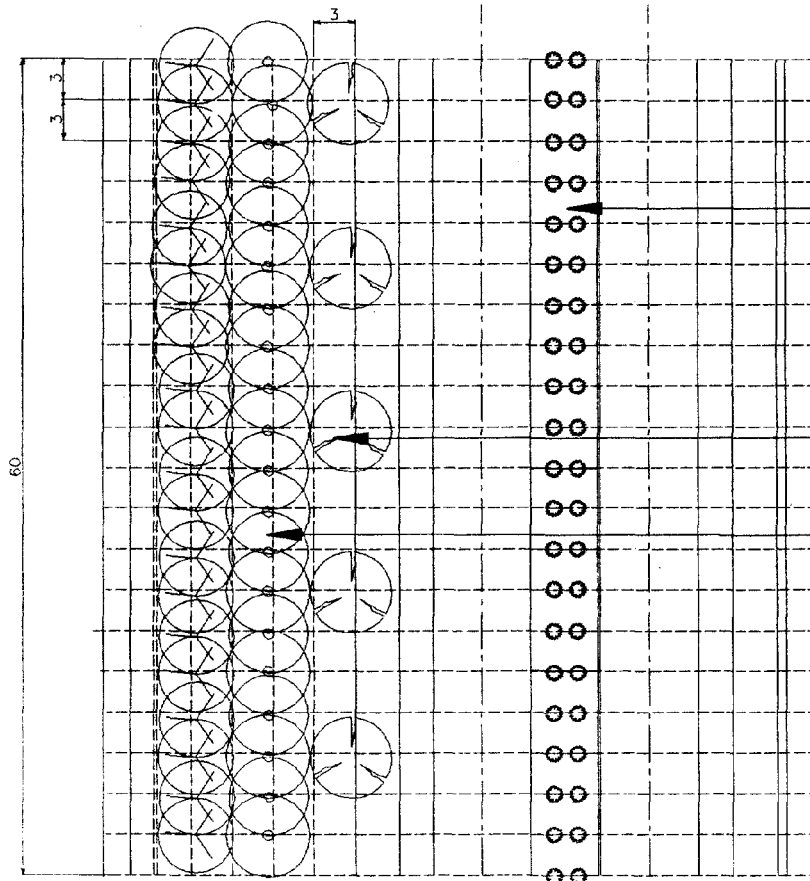
North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
South	Beyond Daylight Line					
	1st row	Syzynium cumini	12	158		
	2nd row	Acacia Auriculiformis	3	633		
	3rd row	Lagerstromia flosreginea	3	633		
	4th row	Terminalia arjuna	3	633		
	5th row	Acacia Auriculiformis	3	633		
Median (5m)	Median					
	1st row	Bouganvillae	3		633	
	2nd row	Bouganvillae	3		633	
Total Section						
	Total	Syzynium cumini		158		
		Terminalia arjuna		633		
	Total	Lagerstromia flosreginea		633		
	Total	Acacia Auriculiformis		1267		
Total	Trees			2692		
	Total	Bouganvillae			1267	
Total	Shrubs				1267	

Appendix 5

Landscape Drawings and Tree Plantation Table for Package II-B



SECTION: I, VI-d



BOUGANVILLE
@ 3M C/C

TAMARINDUS INDICA
@ 12M C/C

LARGESTOMIA
FLOSREGINEA
@ 3M C/C

PLAN: TCS-I, VI-d

PKG:II-B, Design CH-13.8-15.2, RIGHT SIDE WIDENING

ROAD LANDSCAPE SECTION:15.7-17.1

Rural

Average ROW available =55m

Space for plantation =0-18.5m on left side

LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURVING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Eastern Avenue
Minister Road
New Delhi - 110006.



Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS MA-6

Leo Associates South Asia Pvt. Ltd.
A-209, Near Pitamba Colony,
New Delhi - 110006.
Phone - 6222070, 6222009



LANDSCAPE PLAN FOR PACKAGE: 2B, TCS-I,VI -a (Rural)

Landscape Section: 470-38

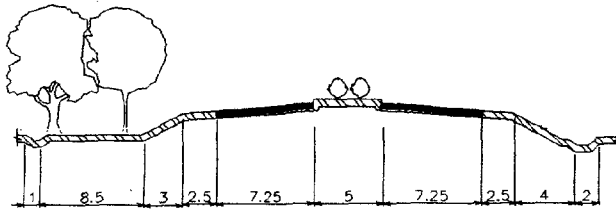
Design Chainage for TCS: 13.8-15.2

Length (m): 1400

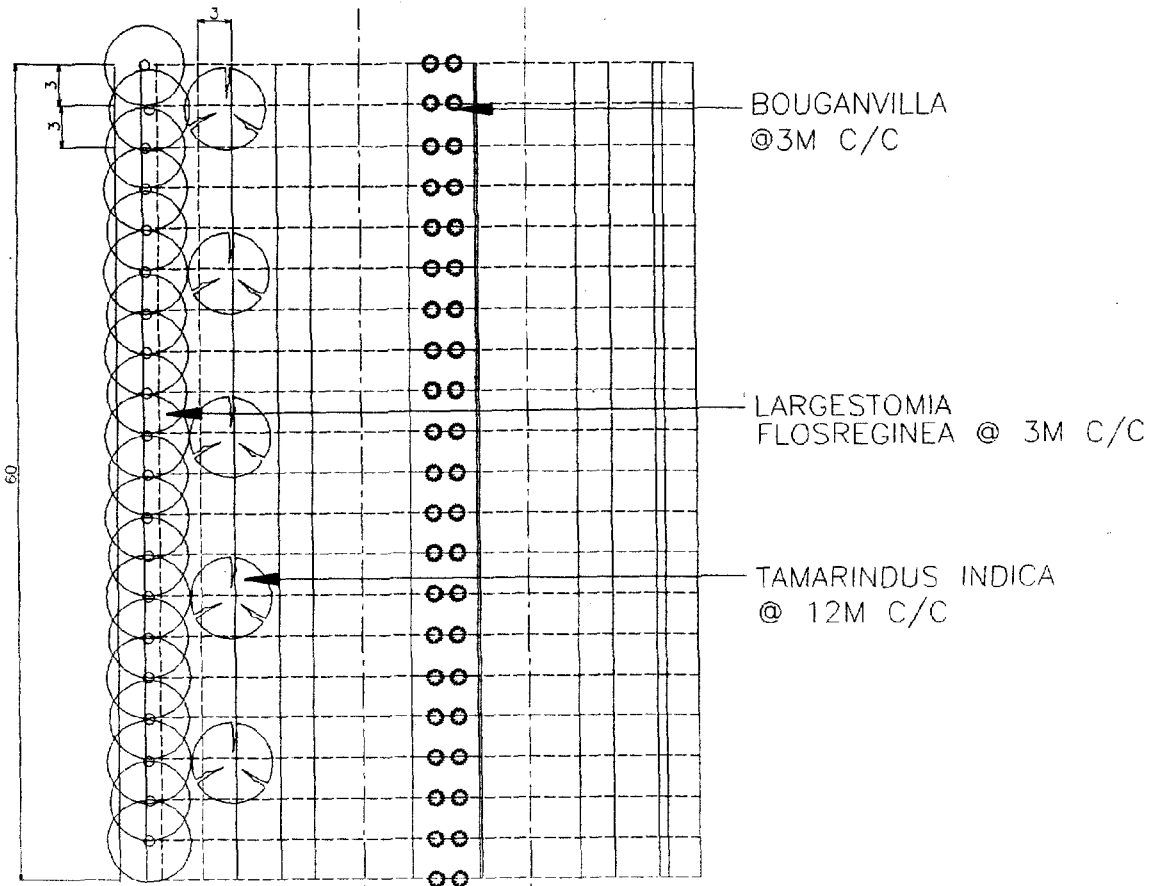
Average ROW available: 55m

Space for Plantation: 0-18.5m Left

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Tamarindus indica	12	117		
	2nd row	Largestomia flosreginea	3	467		
	3rd row	Largestomia flosreginea	3	467		
South	Beyond Daylight Line					
Median (5m)	Median					
	1st row	Bouganvillae	3		467	
	2nd row	Bouganvillae	3		467	
Total Section						
	Total	Tamarindus indica		117		
	Total	Largestomia flosreginea		933		
Total	Trees			1050		
	Total	Bouganvillae			467	
Total	Shrubs				467	



SECTION: I, VI-b



PLAN: TCS-I, VI-b

PKG:II-B, Design CH-15.2-17.2, 19.85-20, 35-45,
RIGHT SIDE WIDENING

Rural
Average ROW available =45m
Space for plantation =0-8.5m on left side

LEGEND:-
 SHADE/ORNAMENTAL TREES
 TALL/CIRCULAR AVENUE TREES
 MEDIA SHRUBS
 GRASS PLANTING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
 INDEPENDENT ENVIRONMENTAL REVIEW

Scale
 NTS

National Highways Authority Of India
 1, Eastern Avenue
 Mahatma Nagar
 New Delhi - 110002.



Notes:-
 1) No tree is to be planted within 2.5m of an existing tree.
 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
 TCS-1-b

Lee Associates South Asia Pvt. Ltd.
 A-202, New Friends Colony,
 New Delhi - 110002.
 Phone - 61620001, 61620002



LANDSCAPE PLAN FOR PACKAGE: 2B, TCS-I,VI -b (Rural)

Landscape Section: 470-38

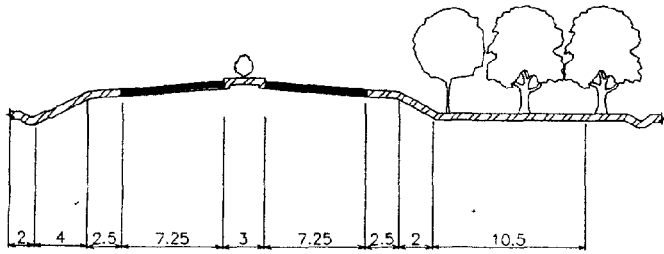
Design Chainage for TCS: 15.217.2, 19.85-20, 35-45

Length (m): 12150

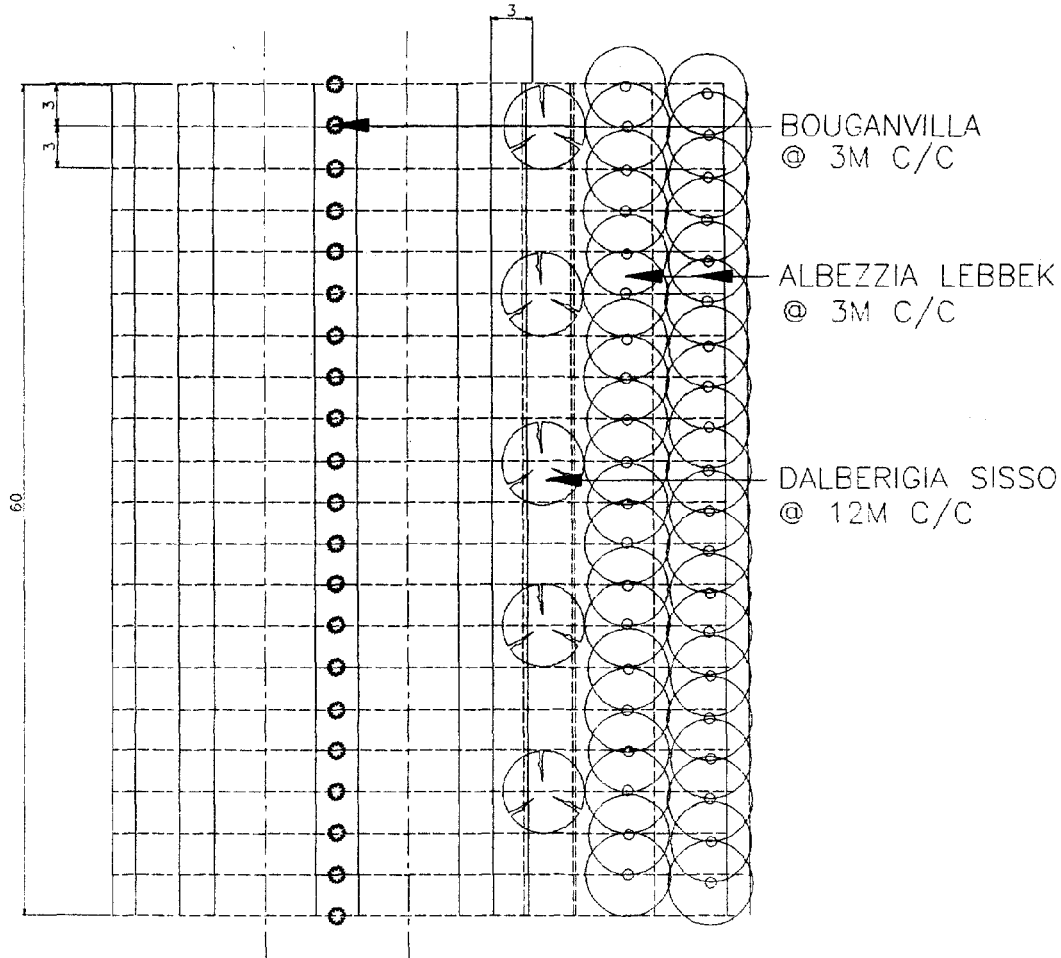
Average ROW available: 45m

Space for Plantation: 0-8.5m Left

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Tamarindus indica	12	1013		
	2nd row	Largestomia flosreginea	3	4050		
South	Beyond Daylight Line					
Median (5m)	Median					
	1st row	Bouganvillae	3		4050	
	2nd row	Bouganvillae	3		4050	
Total Section						
	Total	Tamarindus indica		1013		
	Total	Largestomia flosreginea		4050		
Total	Trees			5063		
	Total	Bouganvillae			4050	
Total	Shrubs				4050	



SECTION: II-c



PLAN: TCS-II-a

PKG:II-B.Design CH-26.3-26, left side widening
ROAD LANDSCAPE SECTION:17.1-38

Rural
Average ROW available =50m
Space for plantation =0-10.5m on right side

- LEGEND:-**
- SHADE/ORNAMENTAL TREES
 - TALL/CONICAL AVENUE TREES
 - MEDIAN SHRUBS
 - GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Rashtriya Marg
Mahatma Bhawan
New Delhi - 110002



- Notes:-**
- 1) No tree is to be planted within 2.5m of an existing tree.
 - 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCB B-a

Leo Associates South Asia Pvt. Ltd.
A-229, New Friends Colony,
New Delhi - 110002
Phone - 6222201, 6222202



LANDSCAPE PLAN FOR PACKAGE: 2B, TCS-II-a (Rural)

Landscape Section: 470-38

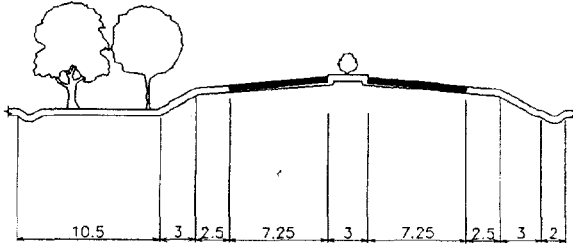
Design Chainage for TCS: 33.2-33.6

Length (m): 400

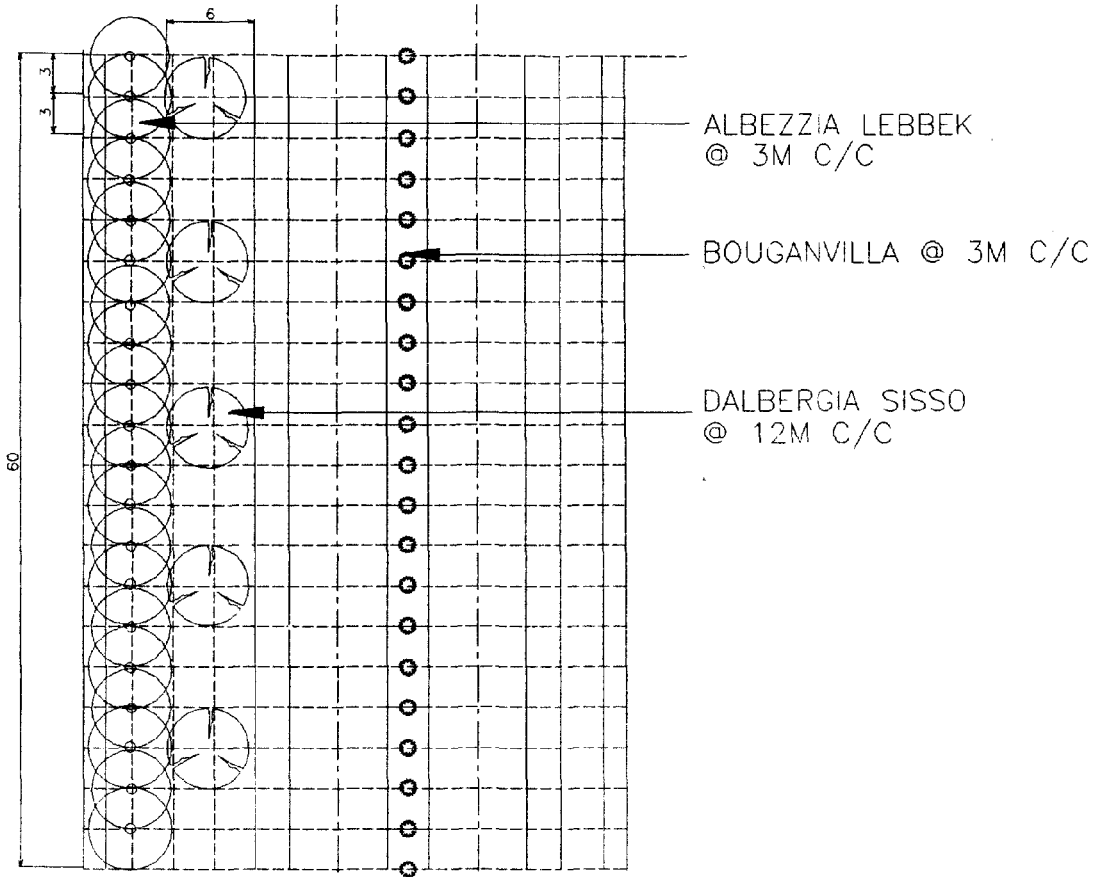
Average ROW available: 50m

Space for Plantation: 0-10.5m Right

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
South	Beyond Daylight Line					
	1st row	Dalbergia sisso	12	33		
	2nd row	Albezzia lebbek	3	133		
	3rd row	Albezzia lebbek	3	133		
Median (3m)	Median					
	1st row	Bouganvillae	3		133	
Total Section						
	Total	Dalbergia sisso		33		
	Total	Albezzia lebbek		267		
Total	Trees			300		
	Total	Bouganvillae			133	
Total	Shrubs				133	



SECTION: II-b



PLAN: TCS-II-b

PKG:II-B, Design CH-21.6-25.0, 26.7-33.2, right side widening

ROAD LANDSCAPE SECTION:17.1-38

Rural

Average ROW available =50m
Space for plantation =0-10.5m on left side

LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/COLONIAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Eastern Avenue
Minister Road
New Delhi - 110002.

Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS II-b

Lee Associates South Asia Pvt. Ltd.
A-302, New Friends Colony,
New Delhi - 110002.
Phone - 622903, 622905



LANDSCAPE PLAN FOR PACKAGE: 2B, TCS-II-b (Rural)

Landscape Section: 470-38

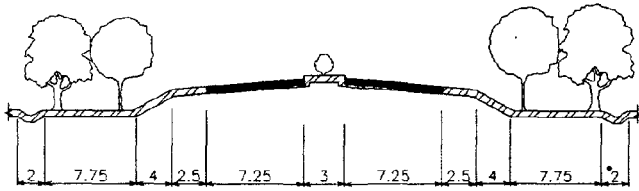
Design Chainage for TCS: 21.6-25, 26.7-33.2

Length (m): 9900

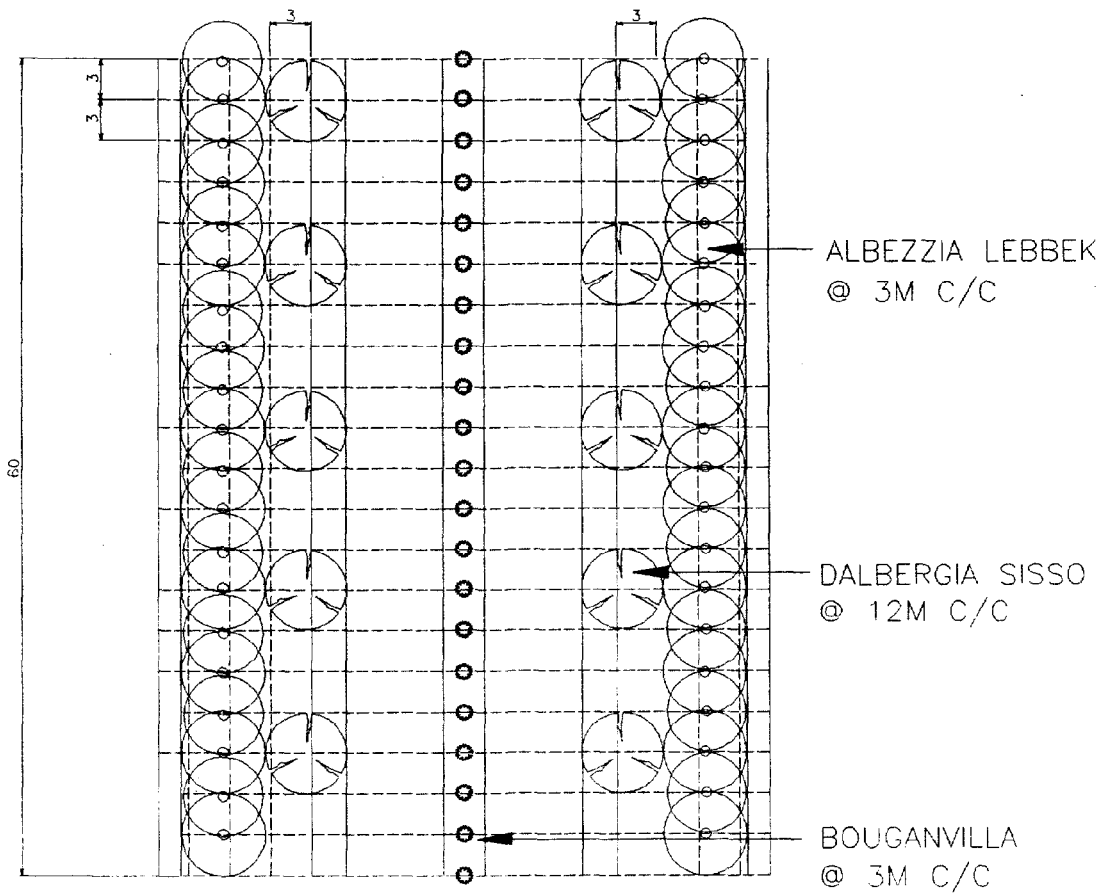
Average ROW available: 50m

Space for Plantation: 0-10.5m Left

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Dalbergia sisso	12	825		
	2nd row	Albezzia lebbek	3	3300		
South	Beyond Daylight Line					
Median (3m)	Median					
	1st row	Bouganvillae	3		3300	
Total Section						
	Total	Dalbergia sisso		825		
	Total	Albezzia lebbek		3300		
Total	Trees			4125		
	Total	Bouganvillae			3300	
Total	Shrubs				3300	



SECTION: II-c



PLAN: TCS-II-c

PKG:II-B, Design CH-26.5-26.7, Concentric

ROAD LANDSCAPE SECTION:17.1-38

Rural
Average ROW available =50m
Space for plantation =0-7.75m on Each side

LEGEND:-

- SHADE/ORNAMENTAL TREES
- TALL/COLONIAL AVENUE TREES
- MEDIAN SHRUBS
- GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highway Authority Of India
1, Western Avenue
Saltmarket Bldg
New Delhi - 110005

Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS II-c

Leo Associates South Asia Pvt. Ltd.
A-220, New Filinvest Colony,
New Delhi - 110028
Phone - 6622888, 6622809

LANDSCAPE PLAN FOR PACKAGE: 2B, TCS-II-C (Rural)

Landscape Section: 470-38

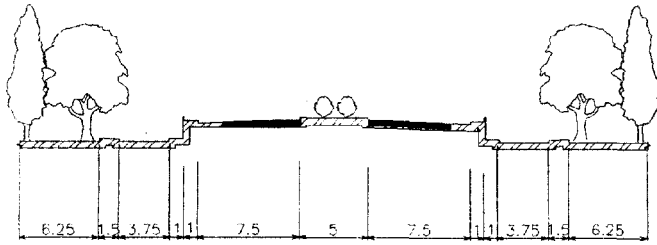
Design Chainage for TCS: 26.5 - 26.7

Length (m): 200

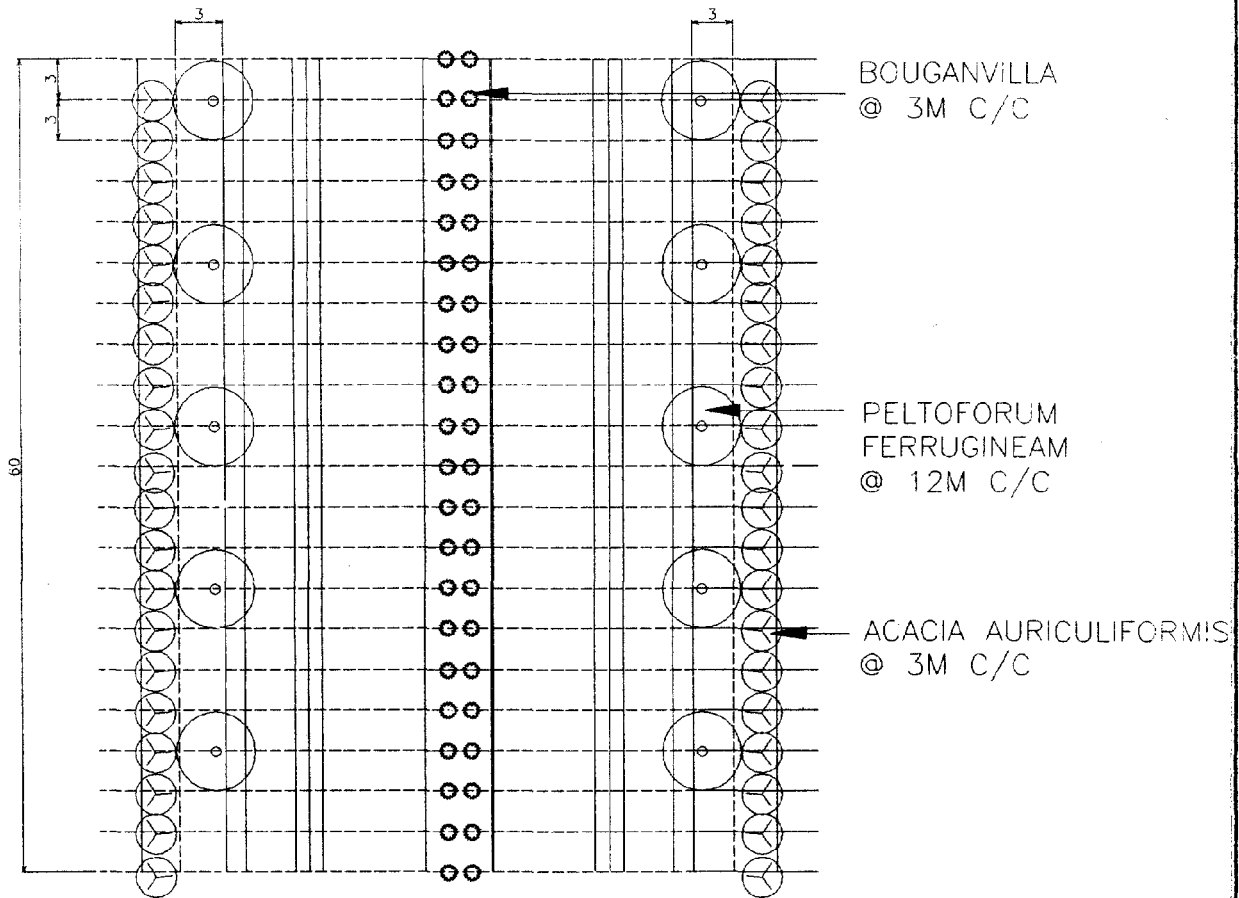
Average ROW available: 50m

Space for Plantation: 0-7.75m Both sides

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Dalbergia sisso	12	17		
	2nd row	Albezzia lebbek	3	67		
South	Beyond Daylight Line					
	1st row	Dalbergia sisso	12	17		
	2nd row	Albezzia lebbek	3	67		
Median (3m)	Median					
	1st row	Bouganvillae	3		67	
Total Section						
	Total	Dalbergia sisso		33		
	Total	Albezzia lebbek		133		
Total	Trees			167		
	Total	Bouganvillae			67	
Total	Shrubs				67	



SECTION: III-C-a



BOUGANVILLE
@ 3M C/C

PELTOFORUM
FERRUGINEAM
@ 12M C/C

ACACIA AURICULIFORMIS
@ 3M C/C

PLAN: TCS-IIIc-a

PKG:II-B, Design CH-25.4-26.3, CONCENTRIC WIDENING
ROAD LANDSCAPE SECTION:17.1-38

Average ROW available =50m
Space for plantation =0-6.25m on each side

RURAL

- LEGEND:-**
- SHADE/ORNAMENTAL TREES
 - TALL/CONICAL AVENUE TREES
 - MEDIUM SHRUBS
 - GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTB

National Highways Authority Of India
1, Easton Avenue
Muller Road
New Delhi - 110028



- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

TCS IIIc-a

Lee Associates South Asia Pvt. Ltd.
A-229, New Friends Colony,
New Delhi - 110026
Phone - 6222222, 6222222



LANDSCAPE PLAN FOR PACKAGE: 2B, TCS-III-C-a (Rural)

Landscape Section: 470-38

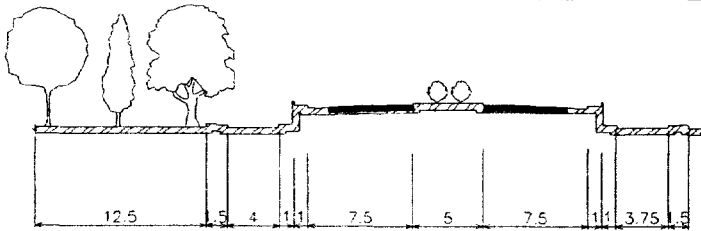
Design Chainage for TCS: 25.4-26.3

Length (m): 900

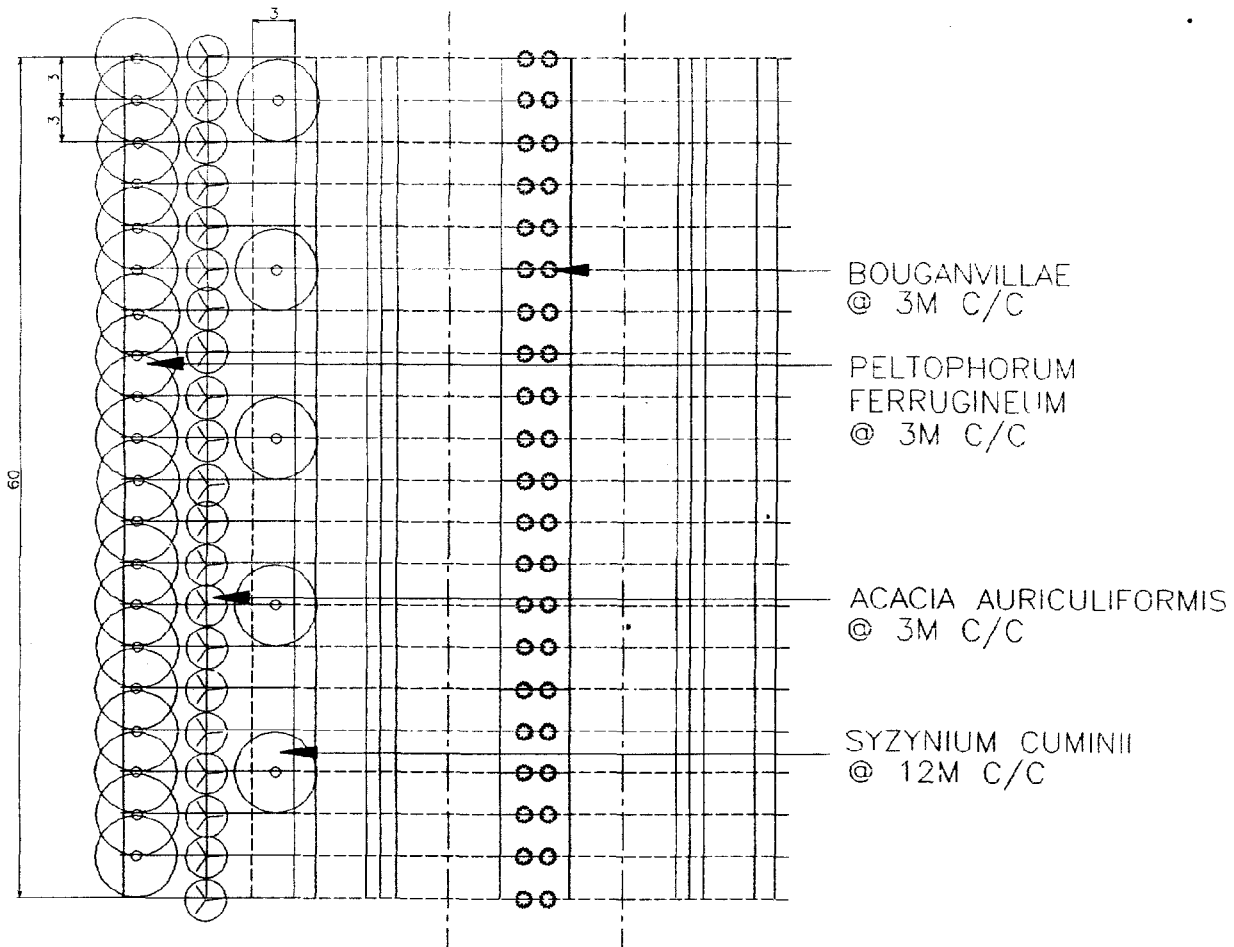
Average ROW available: 50m

Space for Plantation: 0-6.25m Both sides

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Peltoforum ferrugineam	12	75		
	2nd row	Acacia auriculiformis	3	300		
South	Beyond Daylight Line					
	1st row	Peltoforum ferrugineam	12	75		
	2nd row	Acacia auriculiformis	3	300		
Median (5m)	Median					
	1st row	Bouganvillae	3		300	
	2nd row	Bouganvillae	3		300	
Total Section						
	Total	Peltoforum ferrugineam		150		
	Total	Acacia auriculiformis		600		
Total	Trees			750		
	Total	Bouganvillae			600	
Total	Shrubs				600	



SECTION: III-C-b



PLAN: TCS-III-C-b

PKG:II-B, Design CH-25.0-25.4, RIGHT SIDE WIDENING
ROAD LANDSCAPE SECTION:17.1-38

Average ROW available =50m
Space for plantation =0-12.5m on left side

LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Eastern Avenue
Meharaj Nagar
New Delhi - 110001.



Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS-III-C-b

Leo Associates South Asia Pvt. Ltd.
A-228, New Friends Colony,
New Delhi - 110001.
Phone - 6622900, 6622909



LANDSCAPE PLAN FOR PACKAGE: 2B, TCS-III-C-b (Rural)

Landscape Section: 470-38

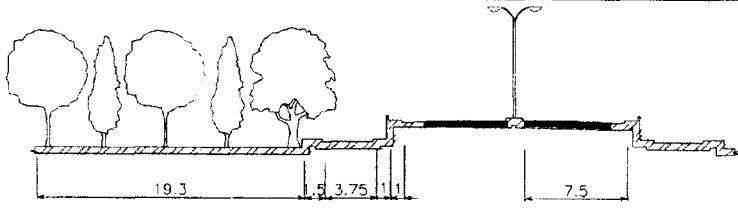
Design Chainage for TCS: 25.-25.4

Length (m): 400

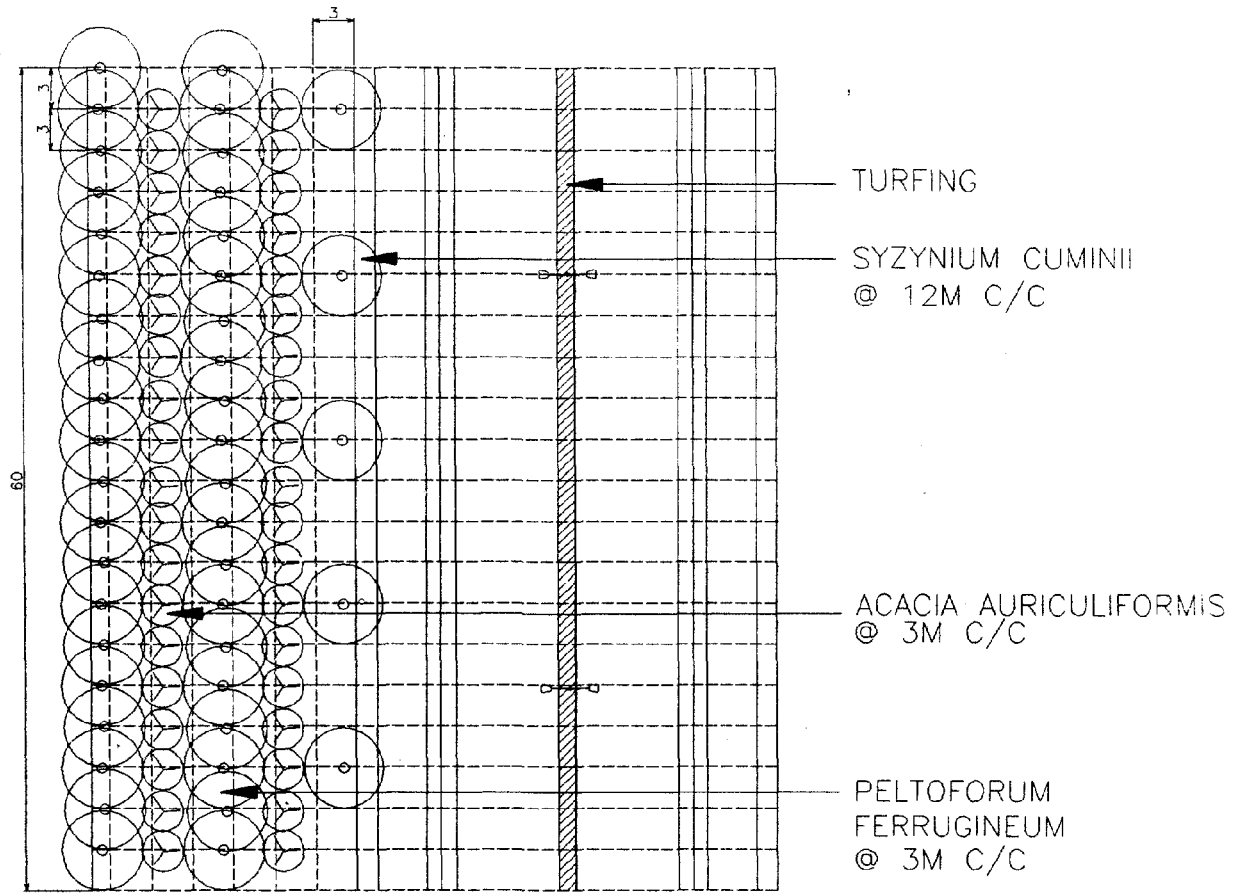
Average ROW available: 50m

Space for Plantation: 0-12.5m Left

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Syzynium cumini	12	33		
	2nd row	Acacia auriculiformis	3	133		
	3rd row	Petophorum ferrugineum	3	133		
South	Beyond Daylight Line					
Median (5m)	Median					
	1st row	Bouganvillae	3		133	
	2nd row	Bouganvillae	3		133	
Total Section						
	Total	Syzynium cumini		33		
	Total	Acacia auriculiformis		133		
	Total	Petophorum ferrugineum		133		
Total	Trees			300		
	Total	Bouganvillae			133	
Total	Shrubs				133	



SECTION: III-D-a



PLAN: TCS-IIIID-a

PKG:II-B,Design CH-19.1-19.85, 20.35-21.6,
 RIGHT SIDE WIDENING
 ROAD LANDSCAPE SECTION:17.1-38

Average ROW available =50m
 Space for plantation =0-19.3m on left side
 Urban

<p>LEGEND:-</p> <p>☉ SHADE/ORNAMENTAL TREES</p> <p>⊕ TALL/CONICAL AVENUE TREES</p> <p>○ MEDIUM SHRUBS</p> <p>▨ GRASS TURFING</p>	<p>Project</p> <p>GRAND TRUNK ROAD IMPROVEMENT PROJECT</p> <p>INDEPENDENT ENVIRONMENTAL REVIEW</p> <p>Notes:-</p> <p>1) No tree is to be planted within 2.5m of an existing tree.</p> <p>2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.</p>	<p>Scale</p> <p>NTS</p> <p>Fig. No.</p> <p>TCS-IIIID-a</p>	<p>National Highways Authority Of India</p> <p>1, Bhamburda Avenue, New Delhi - 110002, New Delhi - 110002.</p> <p>Leo Associates South Asia Pvt. Ltd.</p> <p>4/23B, New Panchsala Colony, New Delhi - 110028, Phone - 6162194, 6122608</p> <p></p>
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LANDSCAPE PLAN FOR PACKAGE: 2B, TCS-III-D-a (Rural)

Landscape Section: 470-38

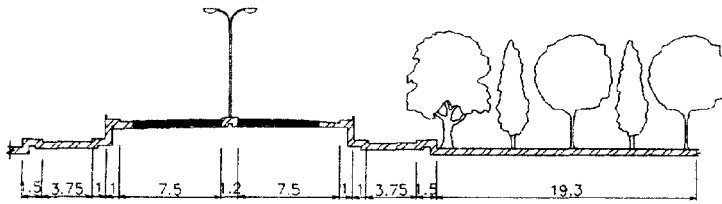
Design Chainage for TCS: 19.1-19.85, 20.35-21.6

Length (m): 2000

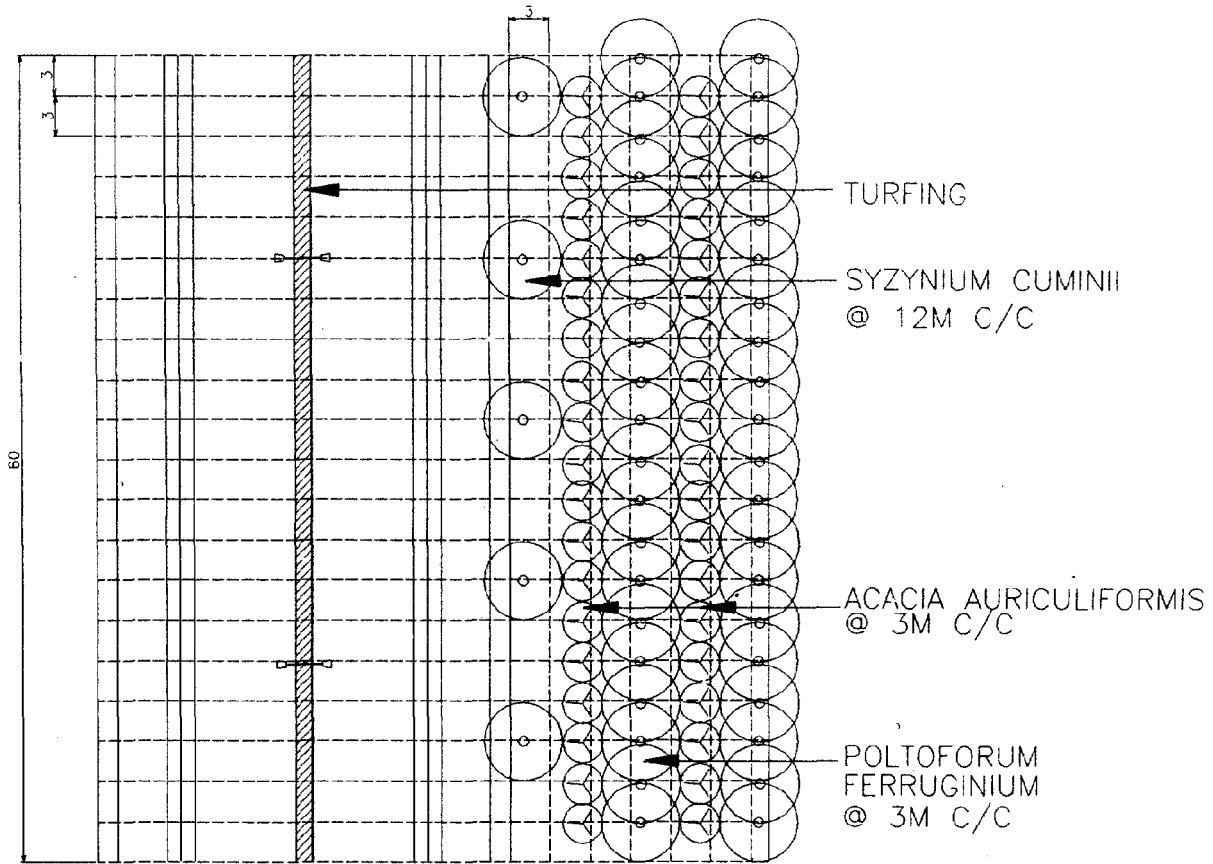
Average ROW available: 50m

Space for Plantation: 0-19.3m Left

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Syzynium cumini	12	167		
	2nd row	Acacia auriculiformis	3	667		
	3rd row	Peltoforum ferrugineum	3	667		
	4th row	Acacia auriculiformis	3	667		
	5th row	Peltoforum ferrugineum	3	667		
South	Beyond Daylight Line					
Median (1.2m)	Median					
	Grass					2400
Total Section						
	Total	Syzynium cumini		167		
	Total	Acacia auriculiformis		1333		
	Total	Peltoforum ferrugineum		1333		
Total	Trees			2833		
Total	Grass					2400



SECTION: III-D-b



PLAN: TCS-IIID-b

PKG:II-B, Design CH-33.2-33.6, LEFT SIDE WIDENING
ROAD LANDSCAPE SECTION:17.1-38

Average ROW available =50m
Space for plantation =0-19.3m on right side
Urban

- LEGEND:-**
- SHADE/ORNAMENTAL TREES
 - TALL/CONICAL AVENUE TREES
 - MEDIAN SHRUBS
 - GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Eashton Avenue
Mahatma Nagar
New Delhi - 110068.



- Notes:-**
- 1) No tree is to be planted within 2.5m of an existing tree.
 - 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS IIID-b

Leo Associates South Asia Pvt. Ltd.
A-202, New Friends Colony,
New Delhi - 110029.
Phone - 61622016, 61622017



LANDSCAPE PLAN FOR PACKAGE: 2B, TCS-III-D-b (Rural)

Landscape Section: 470-38

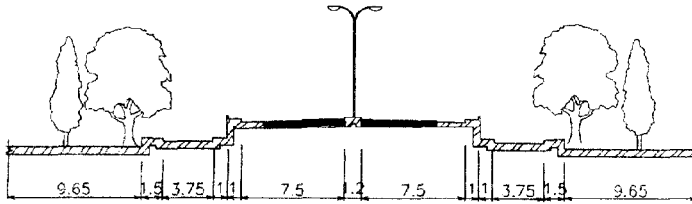
Design Chainage for TCS: 33.2-33.6

Length (m): 400

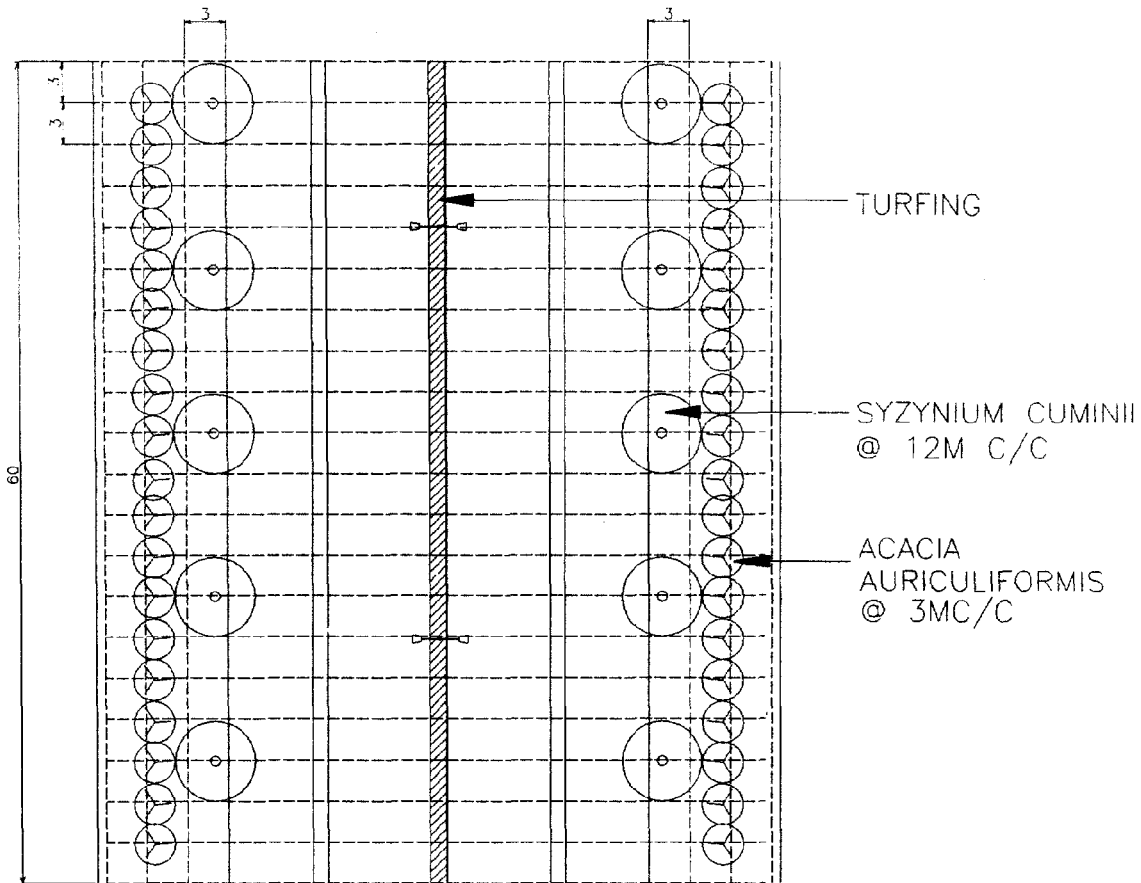
Average ROW available: 50m

Space for Plantation: 0-19.3m Right

South	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Syzynium cumini	12	33		
	2nd row	Acacia auriculiformis	3	133		
	3rd row	Peltoforum ferrugineum	3	133		
	4th row	Acacia auriculiformis	3	133		
	5th row	Peltoforum ferrugineum	3	133		
North	Beyond Daylight Line					
Median (1.2m)	Median					
	Grass					480
Total Section						
	Total	Syzynium cumini		33		
	Total	Acacia auriculiformis		267		
	Total	Peltoforum ferrugineum		267		
Total	Trees			567		
Total	Grass					480



SECTION: III-D-c



PLAN: TCS-IIIID-c

PKG:II-B, Design CH-17.15-18.5, CONCENTRIC WIDENING
ROAD LANDSCAPE SECTION:17.1-38

Average ROW available =50m
Space for plantation =0-9.65m on both side
Urban

- LEGEND:-**
- SHADE/ORNAMENTAL TREES
 - TALL/CONICAL AVENUE TREES
 - MEDIAN SHRUBS
 - GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority of India
1, Eastern Avenue
Mahatma Road
New Delhi - 110086.



- Notes:-**
- 1) No tree is to be planted within 2.5m of an existing tree.
 - 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS III-D-c

Lee Associates South Asia Pvt. Ltd.
A-229, New Friends Colony,
New Delhi - 110029.
Phone - 6222554, 6222505



LANDSCAPE PLAN FOR PACKAGE: 2B, TCS-III-D-c (Rural)

Landscape Section: 470-38

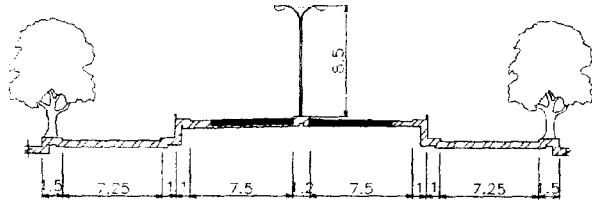
Design Chainage for TCS: 17.15-18.5

Length (m): 1350

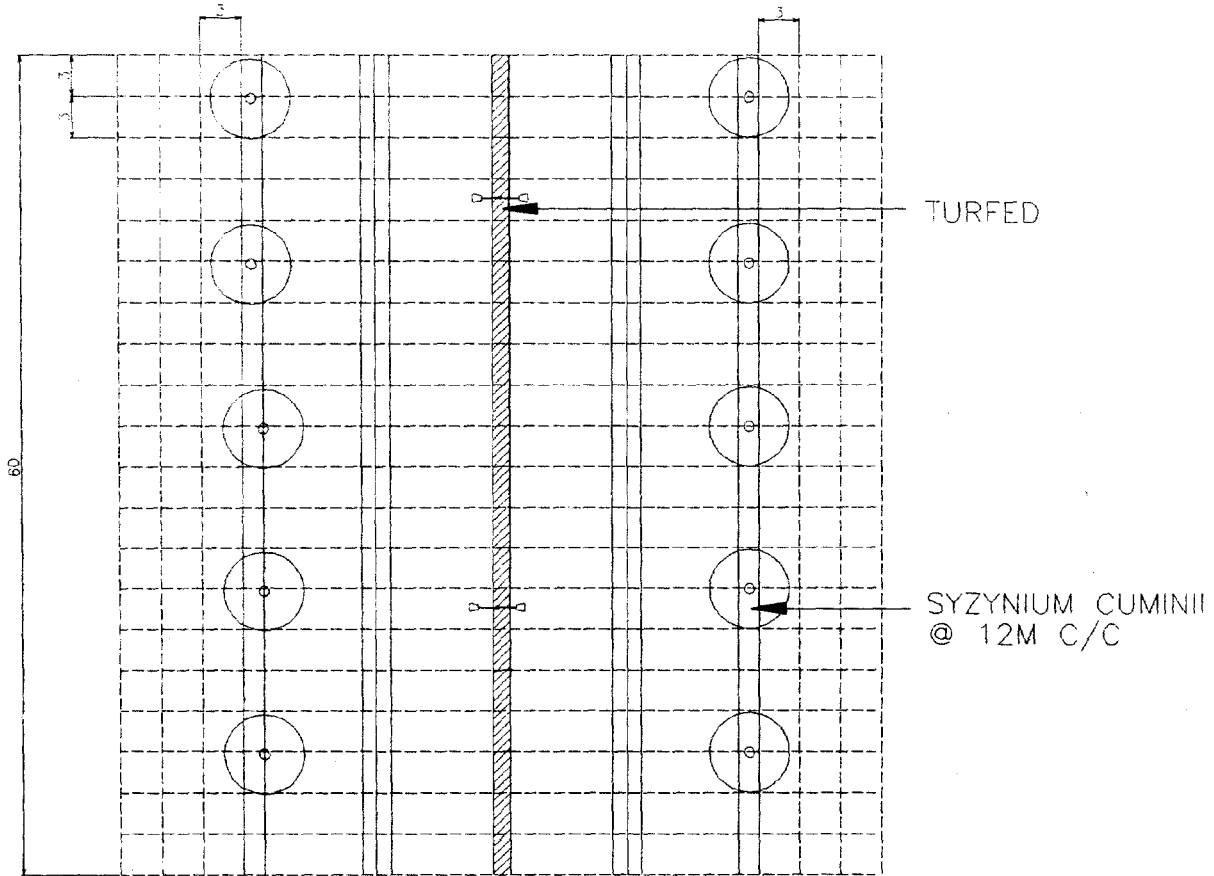
Average ROW available: 50m

Space for Plantation: 0-9.65m Both sides

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m ²)
	1st row	Syzygium cumini	12	113		
	2nd row	Acacia auriculiformis	3	450		
South	Beyond Daylight Line					
	1st row	Syzygium cumini	12	113		
	2nd row	Acacia auriculiformis	3	450		
Median (1.2m)	Median					
	Grass					1620
Total Section						
	Total	Syzygium cumini		225		
	Total	Acacia auriculiformis		900		
Total	Trees			1125		
Total	Grass					1620



SECTION: IV-A-a



PLAN: TCS-IVA-a

PKG:II-B, Design CH-9.1-13.8, CONCENTRIC WIDENING
ROAD LANDSCAPE SECTION:10-15.1

Average ROW available =40m
Space for plantation =0-1.5m on each side
Urban

- LEGEND:-**
- SHADE/ORNAMENTAL TREES
 - TALL/CONICAL AVENUE TREES
 - MEDIAN SHRUBS
 - GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

- Notes:-**
- 1) No tree is to be planted within 2.5m of an existing tree.
 - 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Scale
NTS

Fig. No.
TCS-IVA-a

National Highways Authority Of India
1, Eastern Avenue
Minister's Office
New Delhi - 110002.

Leo Associates South Asia Pvt. Ltd.
A-202, New Friends Colony,
New Delhi - 110029.
Phone - 6222828, 6222888



LANDSCAPE PLAN FOR PACKAGE: 2B, TCS-IV-A-a (Urban)

Landscape Section: 470-38

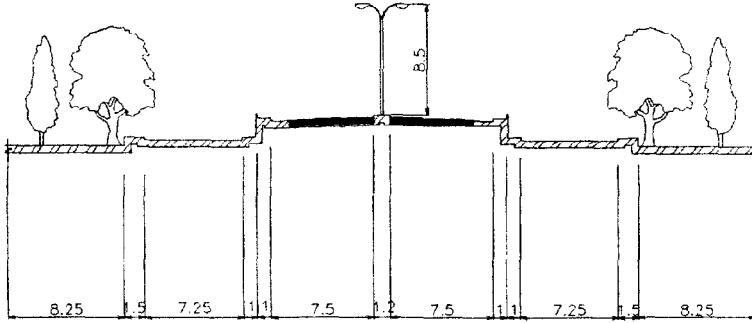
Design Chainage for TCS: 9.1-13.8

Length (m): 4700

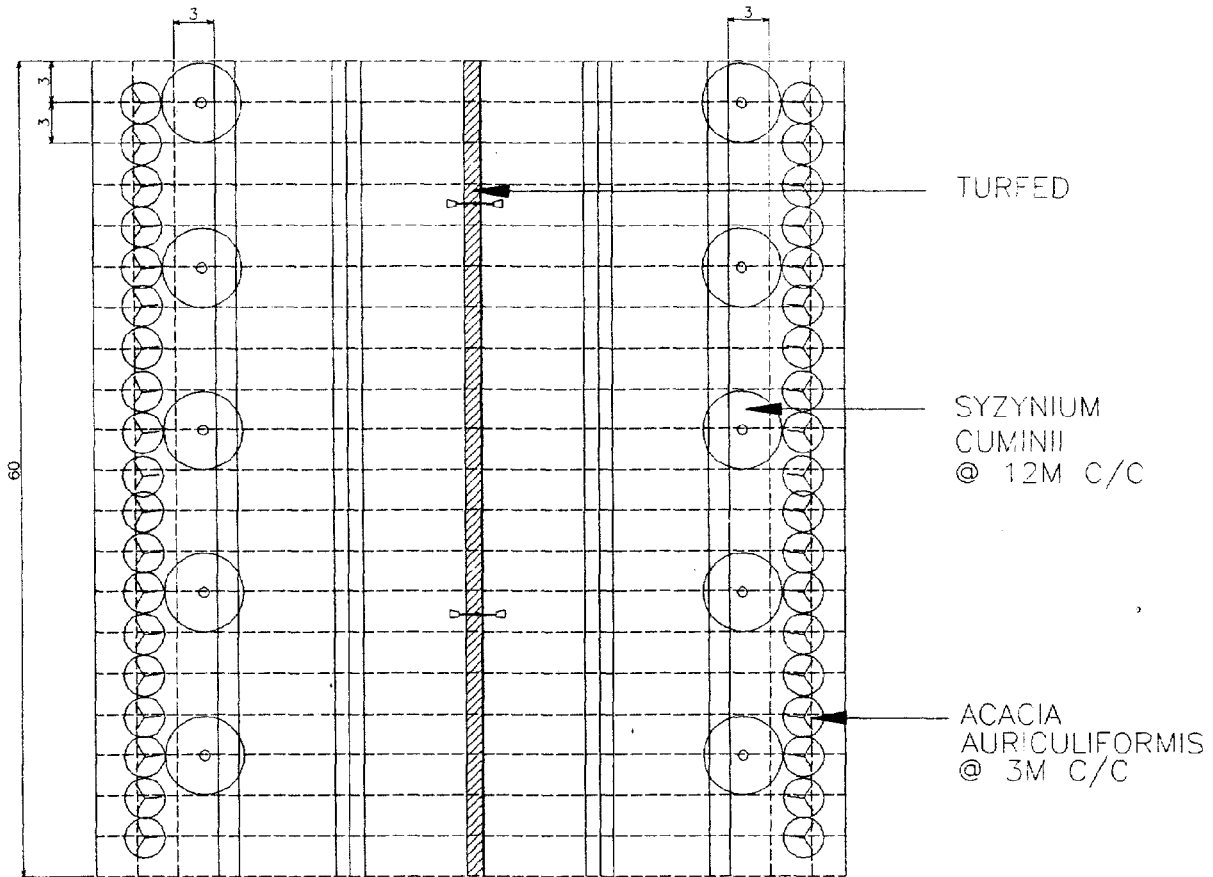
Average ROW available: 40m

Space for Plantation: 0-1.5m Both sides

North	Footpath	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Syzynium cumini	12	392		
South	Footpath					
	1st row	Syzynium cumini	12	392		
Median (1.2m)	Median					
	Grass					5640
Total Section						
	Total	Syzynium cumini		783		
Total	Trees			783		
Total	Grass					5640



SECTION: IV-A-b



PLAN: TCS-IVA-b

PKG:II-B, Design CH-491.7-492.1, 9.0-9.1, CONCENTRIC WIDENING
ROAD LANDSCAPE SECTION:470-492.3

Average ROW available = 55m
Space for plantation = 0-8.25m on each side
Urban

LEGEND:

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIUM SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Banner Avenue
New Delhi - 110001



Notes:

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS IV-A-b

Leo Associates South Asia Pvt. Ltd.
A-202, New Pinnaka Colony,
New Delhi - 110028.
Phone - 6222200, 6222202



LANDSCAPE PLAN FOR PACKAGE: 2B, TCS-IV-A-b (Urban)

Landscape Section: 470-38

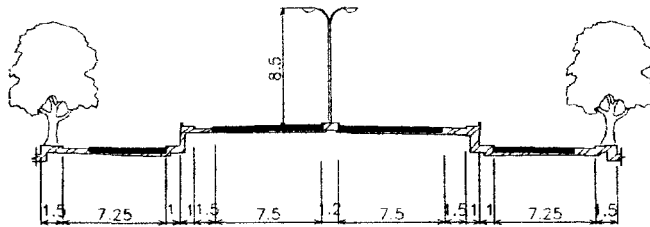
Design Chainage for TCS: 491.7- 492.1, 9.0 - 9.1

Length (m): 500

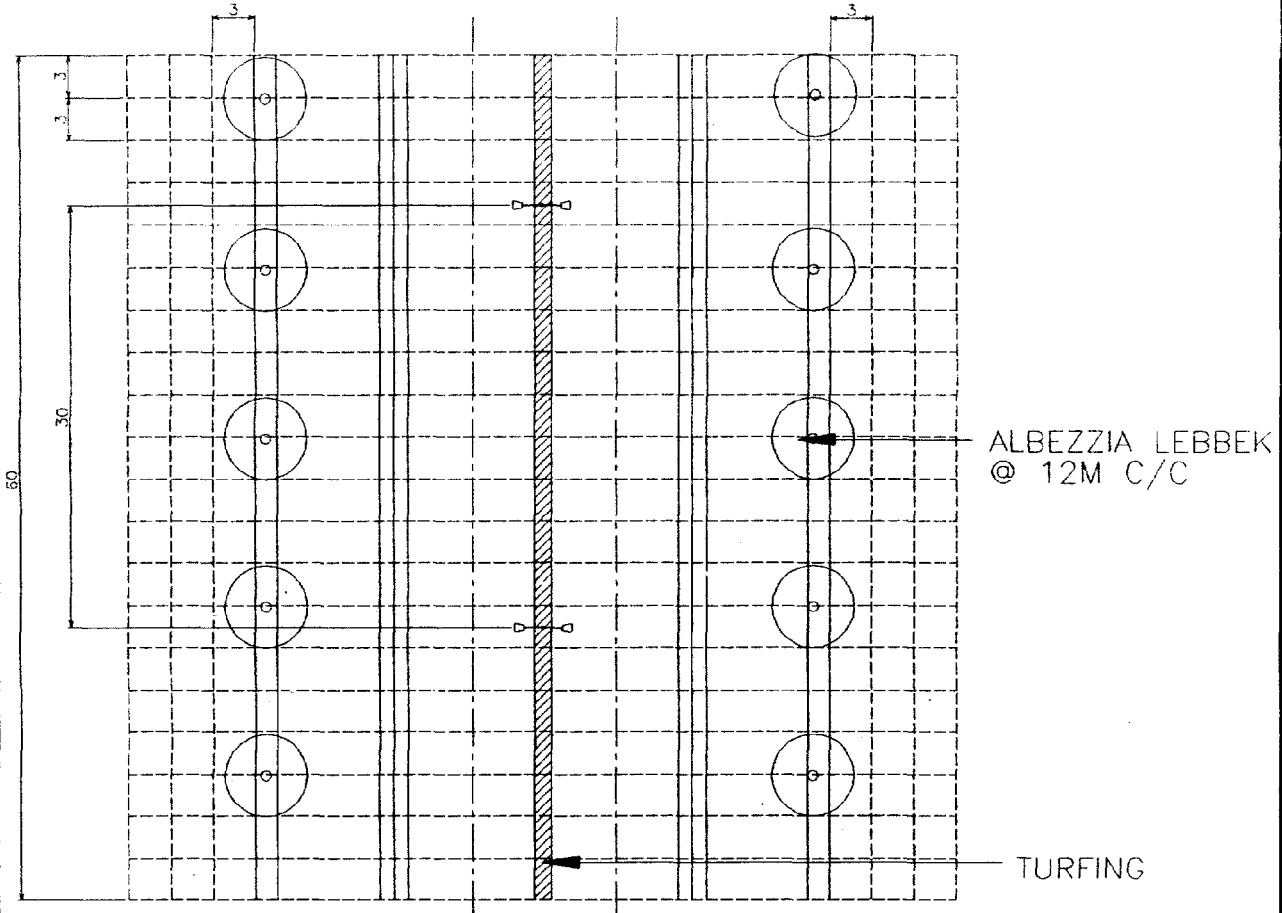
Average ROW available: 55m

Space for Plantation: 0-8.25m Both sides

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Syzygium cumini	12	42		
	2nd row	Acacia auriculiformis	3	167		
South	Beyond Daylight Line					
	1st row	Syzygium cumini	12	42		
	2nd row	Acacia auriculiformis	3	167		
Median (1.2m)	Median					
	Grass					600
Total Section						
	Total	Syzygium cumini		83		
	Total	Acacia auriculiformis		333		
Total	Trees			417		
Total	Grass					600



SECTION: V-a



PLAN: TCS-V-a

PKG:II-B, Design CH-470.0-472.8 CONCENTRIC
ROAD LANDSCAPE SECTION:470-492.3

Average ROW available =40m

URBAN SECTION

LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIUM SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Rashtrapati Bhawan
Marginal Road,
New Delhi - 110002.



Notes:-
1) No tree is to be planted within 2.5m of an existing tree.
2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS VA

Lea Associates South Asia Pvt. Ltd.
A-205, New Friendship Colony,
New Delhi - 110026.
Phone - 6622602, 6622603



LANDSCAPE PLAN FOR PACKAGE: 2B, TCS-V-a (Urban)

Landscape Section: 470-38

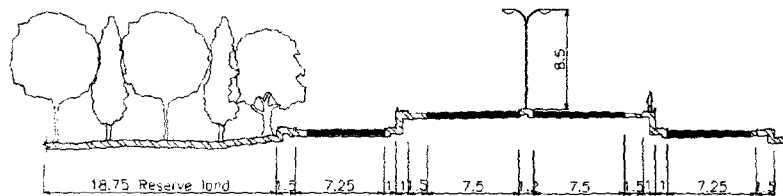
Design Chainage for TCS: 470-472.8

Length (m): 2800

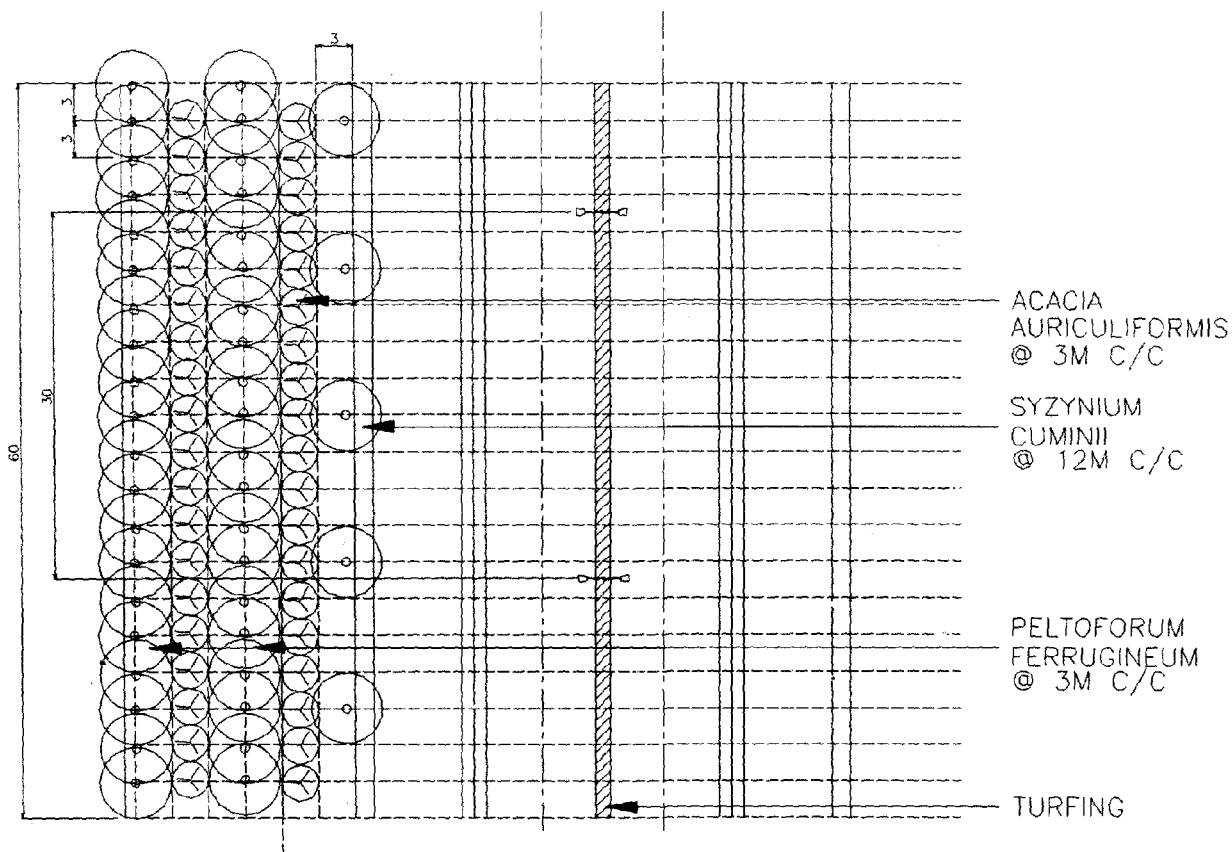
Average ROW available: 40m

Space for Plantation: Pavement Both sides

North	Footpath	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Albezzia lebbek	12	233		
South	Footpath					
	1st row	Albezzia lebbek	12	233		
Median (1.2m)	Median					
	Grass					3360
Total Section						
	Total	Albezzia lebbek		467		
Total	Trees			467		
Total	Grass					3360



SECTION: V-b



PLAN: TCS-V-b

PKG:II-B, Design: CH-473.6-491.7, RIGHT SIDE WIDENING
ROAD LANDSCAPE SECTION:470-492.3

Average ROW available =60m
Space for plantation =0-18.75m on left side
Urban

LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Shaheed Avenue
Minister's Bldg
New Delhi - 110001.



Notes:-
1) No tree is to be planted within 2.5m of an existing tree.
2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS VB

Lee Associates South Asia Pvt. Ltd.
A-209, New Friends Colony,
New Delhi - 110029
Phone - 2626000, 2626000



LANDSCAPE PLAN FOR PACKAGE: 2B, TCS-V-b (Urban)

Landscape Section: 470-38

Design Chainage for TCS: 473.5-491.7

Length (m): 18200

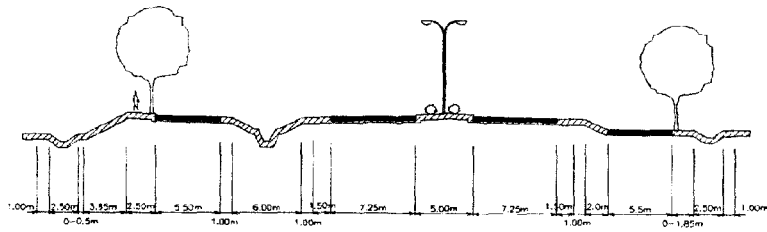
Average ROW available: 60m

Space for Plantation: 0-18.75 Left

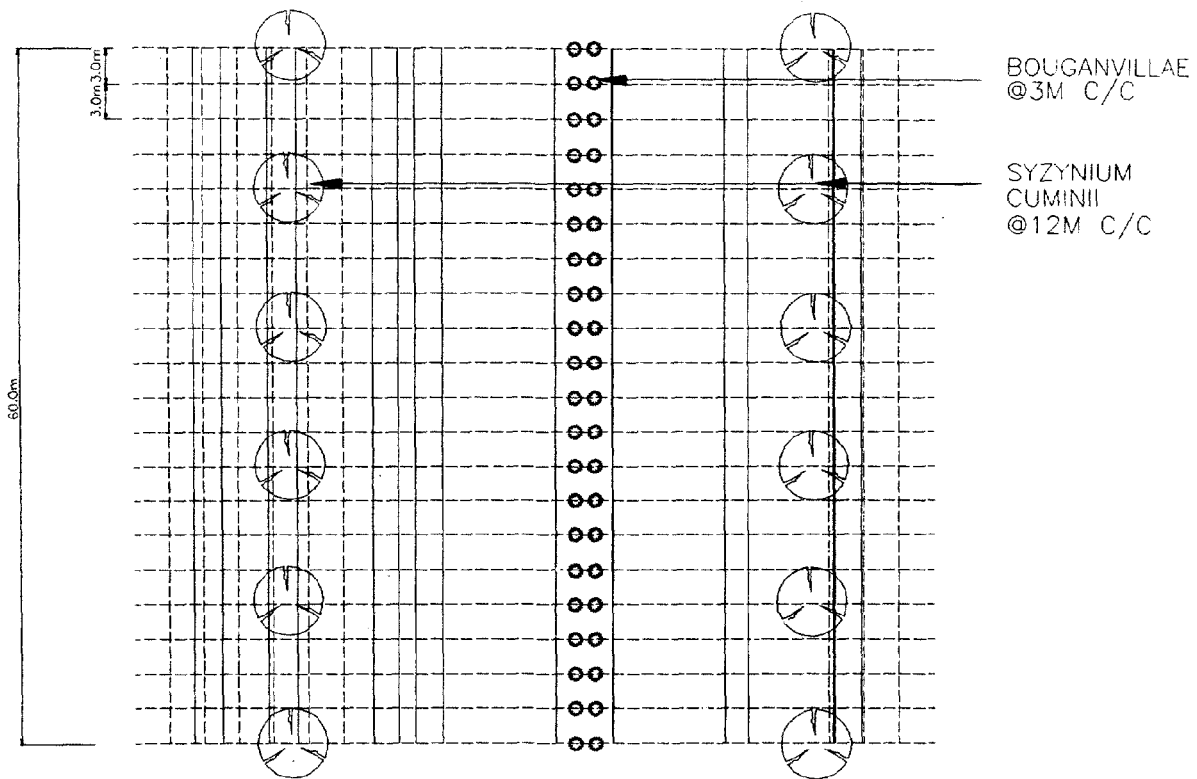
North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Syzynium cumini	12	1517		
	2nd row	Acacia auriculiformis	3	6067		
	3rd row	Peltoforum ferrugineum	3	6067		
	4th row	Acacia auriculiformis	3	6067		
	5th row	Peltoforum ferrugineum	3	6067		
South	Beyond Daylight Line					
Median (1.2m)	Median					
	Grass					21840
Total Section						
	Total	Syzynium cumini		1517		
	Total	Acacia auriculiformis		12133		
	Total	Peltoforum ferrugineum		12133		
Total	Trees			25783		
Total	Grass					21840

Appendix 6

Landscape Drawings and Tree Plantation Table for Package IV-A



SECTION: BP 500



PLAN: BP 500

PKG:IV-A,TCS: BP500,CH-1.4-12.15,19.3-23.2(VRM)22.7-28.9 LEFT SIDE WIDENING
 ROAD LANDSCAPE SECTION: 0-32
 At ch: 19.575-19.825, an extra row of shrub is to be planted @ 3m C/C on North side for noise mitigation

URBAN SECTION
 Average ROW available =60m
 Space for plantation = 0.5m on left
 1.85m on right

LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
 INDEPENDENT ENVIRONMENTAL REVIEW

Scale
 NTS

National Highways Authority Of India
 1, Eastern Avenue
 Mahatma Road
 New Delhi - 110001.



Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
 100/200

Lee Associates South Asia Pvt. Ltd.
 A-20, New Friends Colony,
 New Delhi - 110026.
 Phone - 011-2601, 011-2602



LANDSCAPE PLAN FOR PACKAGE: 4a, TCS-BP 500(Rural)

Landscape Section:0-32

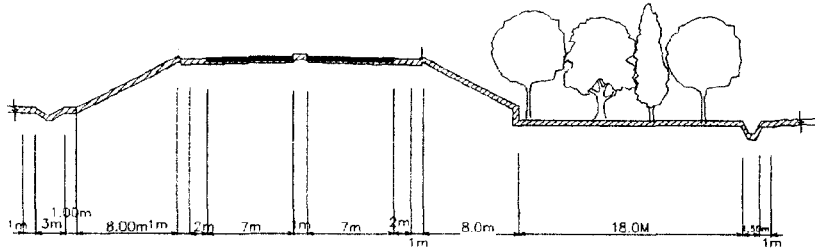
Design Chainage for TCS:1.4-12.15, 22.7-28.9

Length (m): 16950

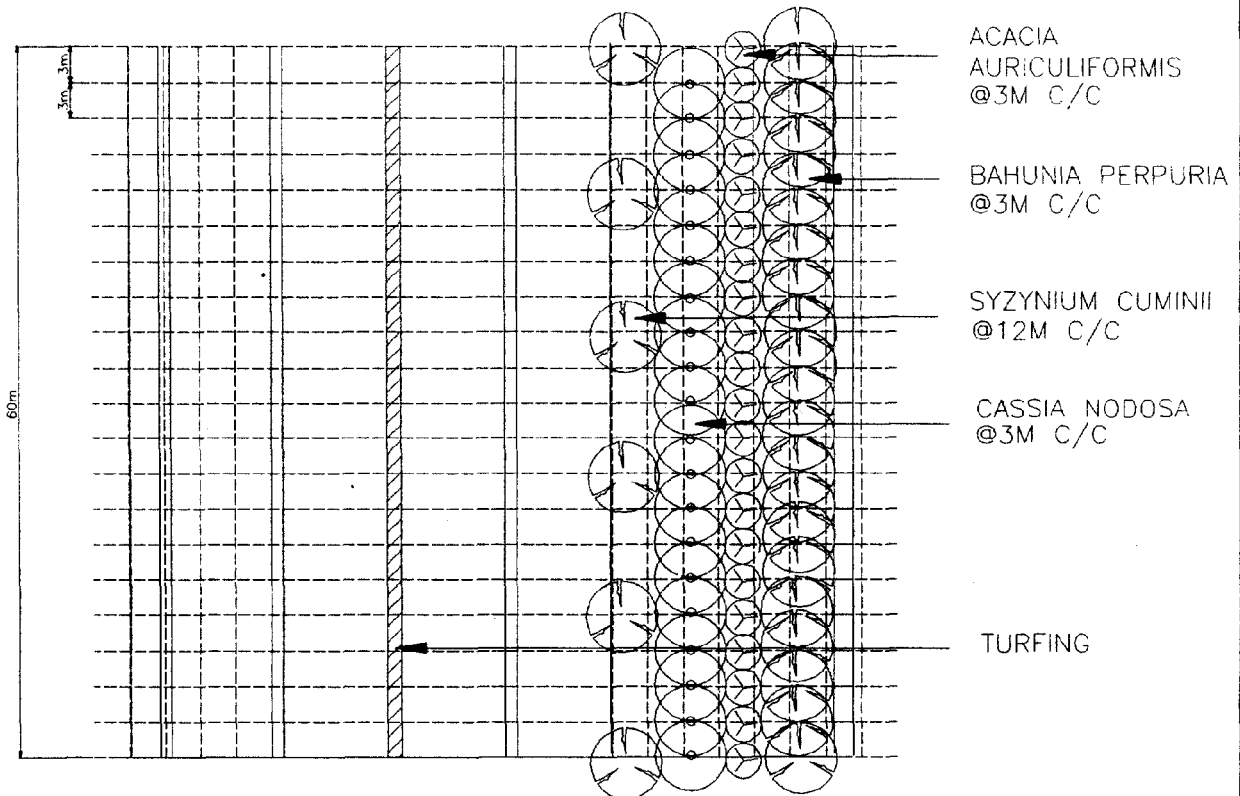
Average ROW available:60m

Space for Plantation: 18m Right

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Syzynium cumini	12	1413		
South	Beyond Daylight Line					
	1st row	Syzynium cumini	12	1413		
Median (5m)	Median					
	1st row	Bouganvillae	3		5650	
	2nd row	Bouganvillae	3		5650	
Total Section						
	Total	Syzynium cumini		2825		
Total	Trees			2825		
	Total	Bouganvillae			11300	
	Shrubs				11300	
Total	Grass					



SECTION (b1) of : BP 120



PLAN (b1): BP 120

PKG-IV-A, TCS: (b1)BP 120, CH-319-319.6, RIGHT SIDE WIDENING
ROAD LANDSCAPE SECTION: 0-32

RURAL SECTION
Average ROW available = 60m
Space for plantation = 18m on left

LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Connaught Avenue
Minister's Bldg.
New Delhi - 110001.



Notes:-
1) No tree is to be planted within 2.5m of an existing tree.
2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
V-04/04

Leo Associates South Asia Pvt. Ltd.
A-228, New Friends Colony,
New Delhi - 110002.
Phone - 6222470, 6222469



LANDSCAPE PLAN FOR PACKAGE: 4a, TCS-BP 120-b1(Rural)

Landscape Section:0-32

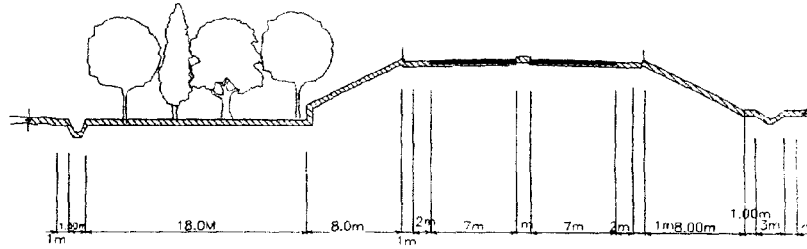
Design Chainage for TCS:319-319.6

Length (m): 600

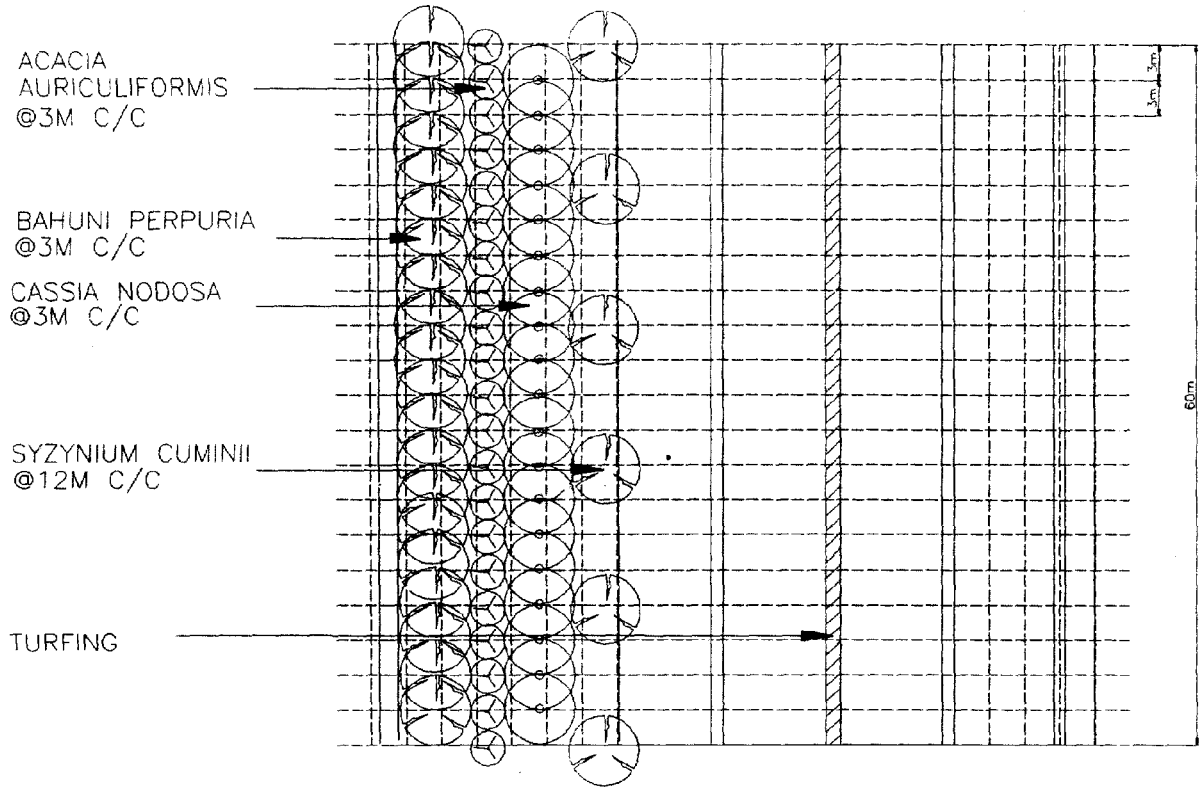
Average ROW available:60m

Space for Plantation: 18m Left

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
South	Beyond Daylight Line					
	1st row	Syzynium cumini	12	50		
	2nd row	Cassia nodosa	3	200		
	3rd row	Acacia auriculiformis	3	200		
	4th row	Bahunia perpuria	3	200		
Median (1.2m)	Median					
	Grass					720
Total Section						
	Total	Syzynium cumini		50		
	Total	Cassia nodosa		200		
	Total	Acacia auriculiformis		200		
	Total	Bahunia perpuria		200		
Total	Trees			650		
	Shrubs				0	
Total	Grass					720



SECTION (b2) of : BP 120



PLAN (b2): BP 120

PKG:IV-A, TCS: (b2)BP 120, CH-318.9-319, 319.6-1.4, 12.25-17.4 LEFT SIDE WIDENING
ROAD LANDSCAPE SECTION: 0-32

RURAL SECTION
Average ROW available = 60m
Space for plantation = 18m on right

LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Scale
NTS

Fig. No.
100-00000

National Highways Authority Of India
1, Rashtrapati Bhawan
Marginal Road,
New Delhi - 110002.

Lee Associates South Asia Pvt. Ltd.
A-229, New Friends Colony,
New Delhi - 110029.
Phone - 6222600, 6222602



LANDSCAPE PLAN FOR PACKAGE: 4a, TCS-BP 120-b2(Rural)

Landscape Section:0-32

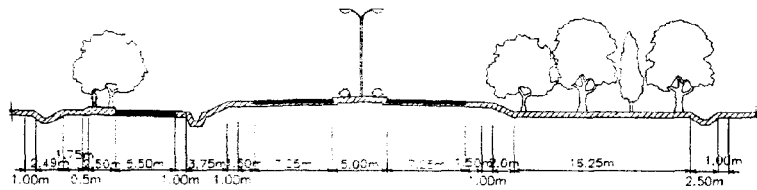
Design Chainage for TCS:318.9-319, 319.6-1.4, 12.25-17.4

Length (m): 6650

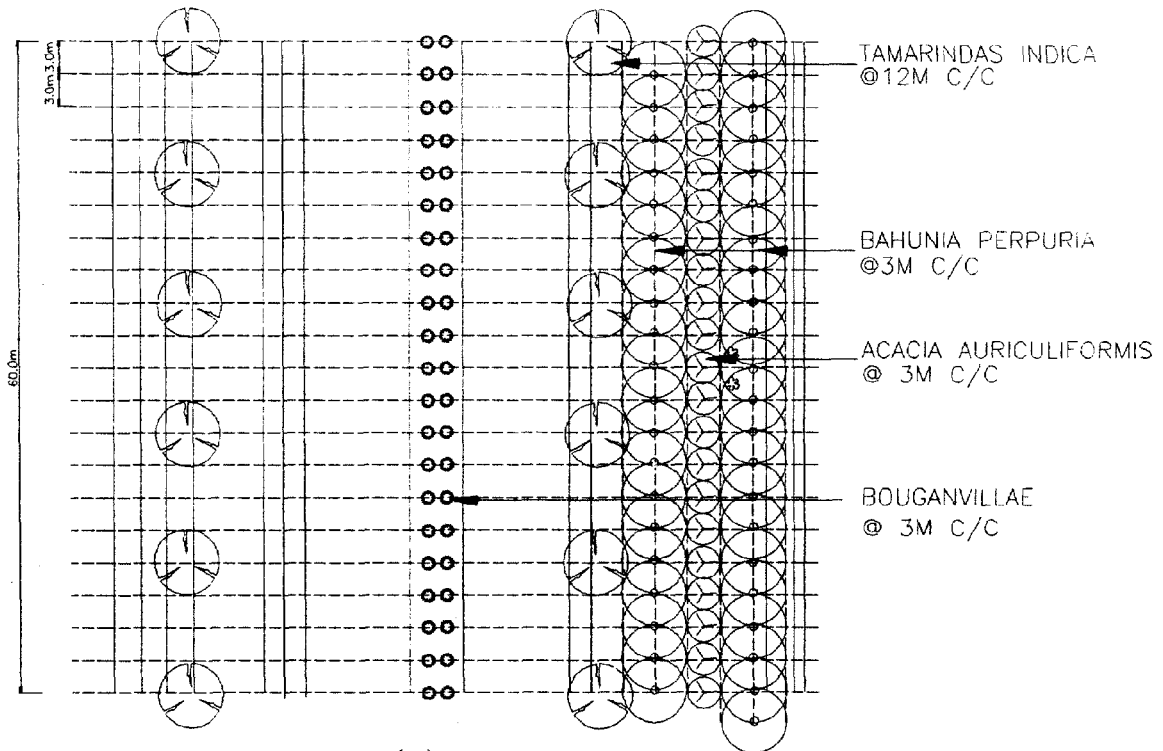
Average ROW available:60m

Space for Plantation: 18m Right

South	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
North	Beyond Daylight Line					
	1st row	Syzygium cumini	12	554		
	2nd row	Cassia nodosa	3	2217		
	3rd row	Acacia auriculiformis	3	2217		
	4th row	Bahunia perpuria	3	2217		
Median (1.2m)	Median					
	Grass					7980
Total Section						
	Total	Syzygium cumini		554		
	Total	Cassia nodosa		2217		
	Total	Acacia auriculiformis		2217		
	Total	Bahunia perpuria		2217		
Total	Trees			7204		
	Shrubs				0	
Total	Grass					7980



SECTION (d) of : 1UA



PLAN (a) of : 1UA

PKG:IV-A, TCS: 1UA, CH-317-318.9, 27.8-29, 29.3-30,
30.4-30.6, 57.8-58 LEFT SIDE WIDENING
ROAD LANDSCAPE SECTION: 0-32

URBAN SECTION
Average ROW available = 64m
Space for plantation = 1.75m on left
16.25m on right

LEGEND:-
 SHADE/ORNAMENTAL TREES
 TALL/CONICAL AVERAGE TREES
 MEDIAN SHRUBS
 GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
 INDEPENDENT ENVIRONMENTAL REVIEW

Scale
 NTS

National Highways Authority Of India
 1, Gandhi Avenue
 Madhav Nagar
 New Delhi - 110068



Notes:-
 1) No tree is to be planted within 2.5m of an existing tree.
 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
 TCR 61944

Lea Associates South Asia Pvt. Ltd.
 A-250, New Friends Colony,
 New Delhi - 110029
 Phone - 6222001, 6222002



LANDSCAPE PLAN FOR PACKAGE: 4a, TCS-1UA-a (Urban)

Landscape Section: 0-32

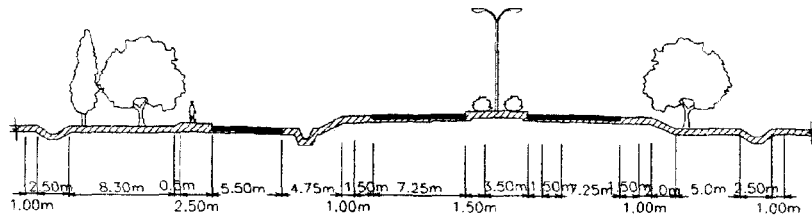
Design Chainage for TCS: 317-318.9, 27.8-29, 29.3-30, 30.4-30.6, 57.8-58

Length (m): 4000

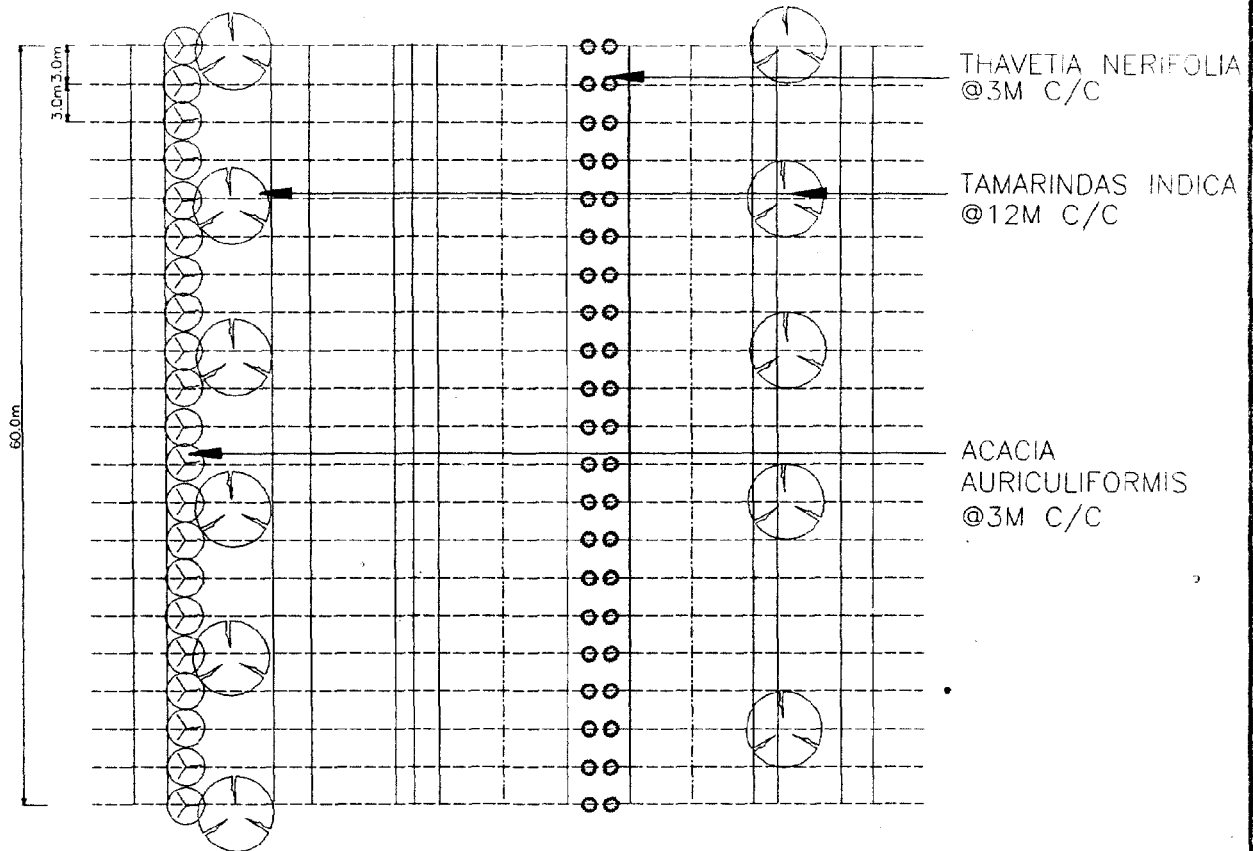
Average ROW available: 64m

Space for Plantation: 1.75m Left
16.25m Right

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Tamarindus indica	12	333		
South	Beyond Daylight Line					
	1st row	Tamarindus indica	12	333		
	2nd row	Bahunia perpuria	3	1333		
	3rd row	Acacia auriculiformis	3	1333		
	4th row	Bahunia perpuria	3	1333		
Median (5m)	Median					
	1st row	Bouganvillae	3		1333	
	2nd row	Bouganvillae	3		1333	
Total Section						
	Total	Tamarindus indica		667		
	Total	Bahunia perpuria		2667		
	Total	Acacia auriculiformis		1333		
Total	Trees			4667		
	Total	Bouganvillae			2667	
Total	Shrubs				2667	



SECTION (b) of: 1UA



PLAN (b) of: 1UA

PKG:IV-A, TCS: 1UA, CH-30-30.4, 32.1-32.8,
32.1-32.8, 48.15-48.8 RIGHT SIDE WIDENING
ROAD LANDSCAPE SECTION: 32-42

URBAN SECTION
Average ROW available = 60m
Space for plantation = 8.3m on left
5m on right

LEGEND:-
 SHADE/ORNAMENTAL TREES
 TALL/CONICAL AVENUE TREES
 MEDIAN SHRUBS
 GRASS TUFTING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
 INDEPENDENT ENVIRONMENTAL REVIEW

Scale
 NTS

National Highways Authority of India
 1, Shaheed Avenue
 Mahatma Square
 New Delhi - 110001.



Notes:-
 1) No tree is to be planted within 2.5m of an existing tree.
 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
 TCS 1UA

Lee Associates South Asia Pvt. Ltd.
 A-202, New Puriade Colony,
 New Delhi - 110028.
 Phone - 6162201, 6162202



LANDSCAPE PLAN FOR PACKAGE: 4a, TCS-1UA-b (Urban)

Landscape Section: 0-32

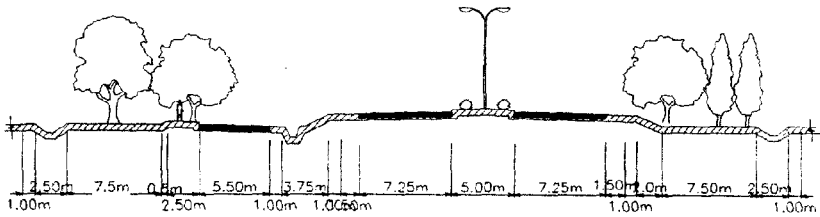
Design Chainage for TCS: 30-30.4, 32.1-32.8, 48.15-48.8

Length (m): 1750

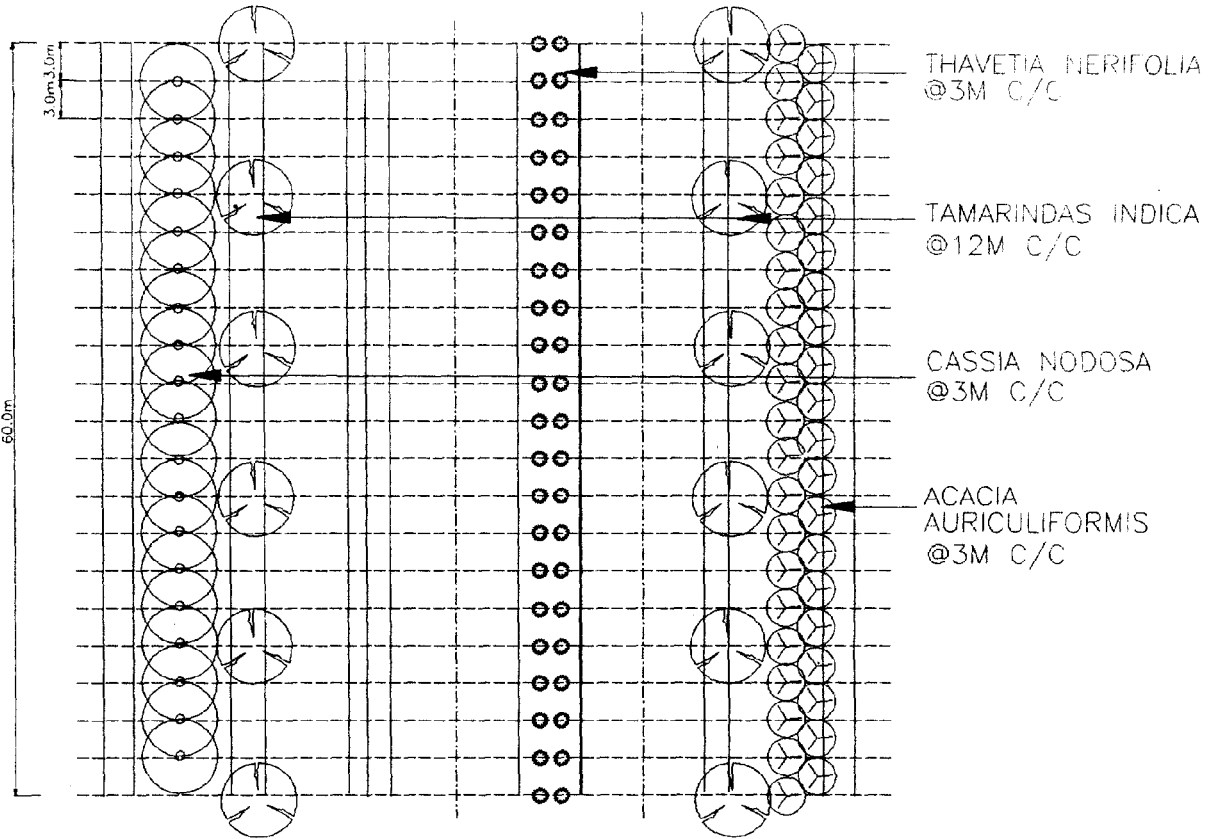
Average ROW available: 60m

Space for Plantation: 8.3m Left
5m Right

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Tamarindus indica	12	146		
	2nd row	Acacia auriculiformis	3	583		
South	Beyond Daylight Line					
	1st row	Tamarindus indica	12	146		
Median (5m)	Median					
	1st row	Thavetia nerifolia	3		583	
	2nd row	Thavetia nerifolia	3		583	
Total Section						
	Total	Tamarindus indica		292		
	Total	Acacia auriculiformis		583		
Total	Trees			875		
	Total	Thavetia nerifolia			1167	
Total	Shrubs				1167	



SECTION (c) of: 1UA



PLAN (c) of: 1UA

PKG:IV-A, TCS: 1UA, CH-29-29.3, 31-32.1 CONCENTRIC WIDENING ROAD LANDSCAPE SECTION: 0-32

URBAN SECTION
Average ROW available = 62m
Space for plantation = 7.5m on each side

LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIUM SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Scale
NFB

Fig. No.
TCS 9840

National Highways Authority Of India
1, Eastern Avenue
Minister's Bldg
New Delhi - 110001.

Lee Associates South Asia Pvt. Ltd.
A-205, New Friends Colony,
New Delhi - 110029.
Phone - 8822800, 8822809

LANDSCAPE PLAN FOR PACKAGE: 4a, TCS-1UA-c (Urban)

Landscape Section: 0-32

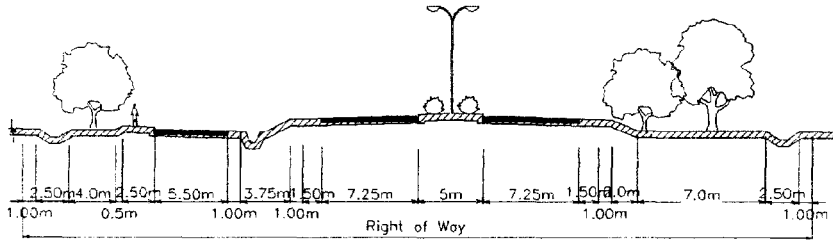
Design Chainage for TCS:29-29.3, 31-32.1

Length (m): 1400

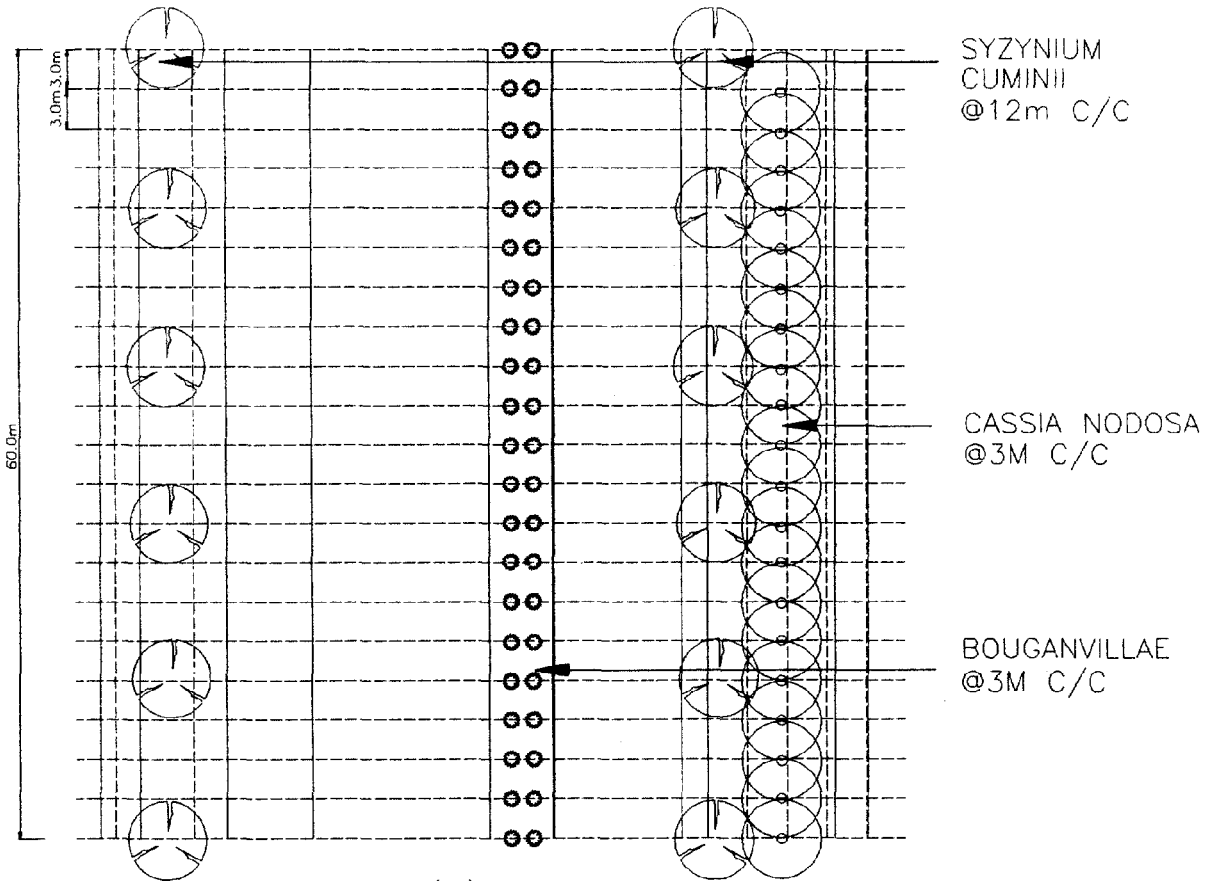
Average ROW available:62m

Space for Plantation: 7.5m Both Sides

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Tamarindus indica	12	117		
	2nd row	Cassia nodosa	3	467		
South	Beyond Daylight Line					
	1st row	Tamarindus indica	12	117		
	2nd row	Acacia auriculiformis	3	467		
	3rd row	Acacia auriculiformis	3	467		
Median (5m)	Median					
	1st row	Thavetia nerifolia	3		467	
	2nd row	Thavetia nerifolia	3		467	
Total Section						
	Total	Tamarindus indica		233		
	Total	Acacia auriculiformis		933		
	Total	Cassia nodosa		467		
Total	Trees			1633		
	Total	Thavetia nerifolia			933	
Total	Shrubs				933	



SECTION (a) of: 1UC



PLAN (a) of: 1UC

PKG:IV-A, TCS: 1UC, CH-44.9-45.2 LEFT SIDE WIDENING
ROAD LANDSCAPE SECTION: 42-49

URBAN SECTION
Average ROW available = 60m
Space for plantation = 4m on left
7m on right

LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Bahadur Avenue
Bahadur Singh
New Delhi - 110002.



Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TOS 4/044

Leo Associates South Asia Pvt. Ltd.
A-202, New Friends Colony,
New Delhi - 110029.
Phone - 6622000, 6622000



LANDSCAPE PLAN FOR PACKAGE: 4a, TCS-1UC-a (Urban)

Landscape Section: 42-49

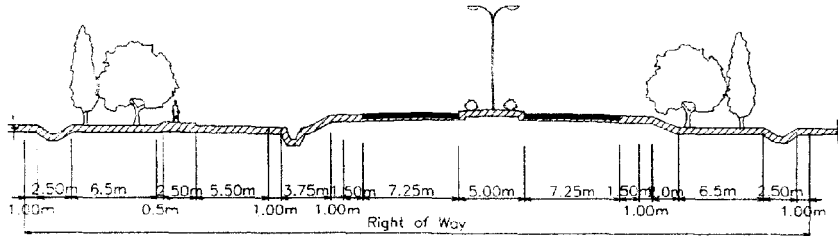
Design Chainage for TCS:44.9-45.2

Length (m): 300

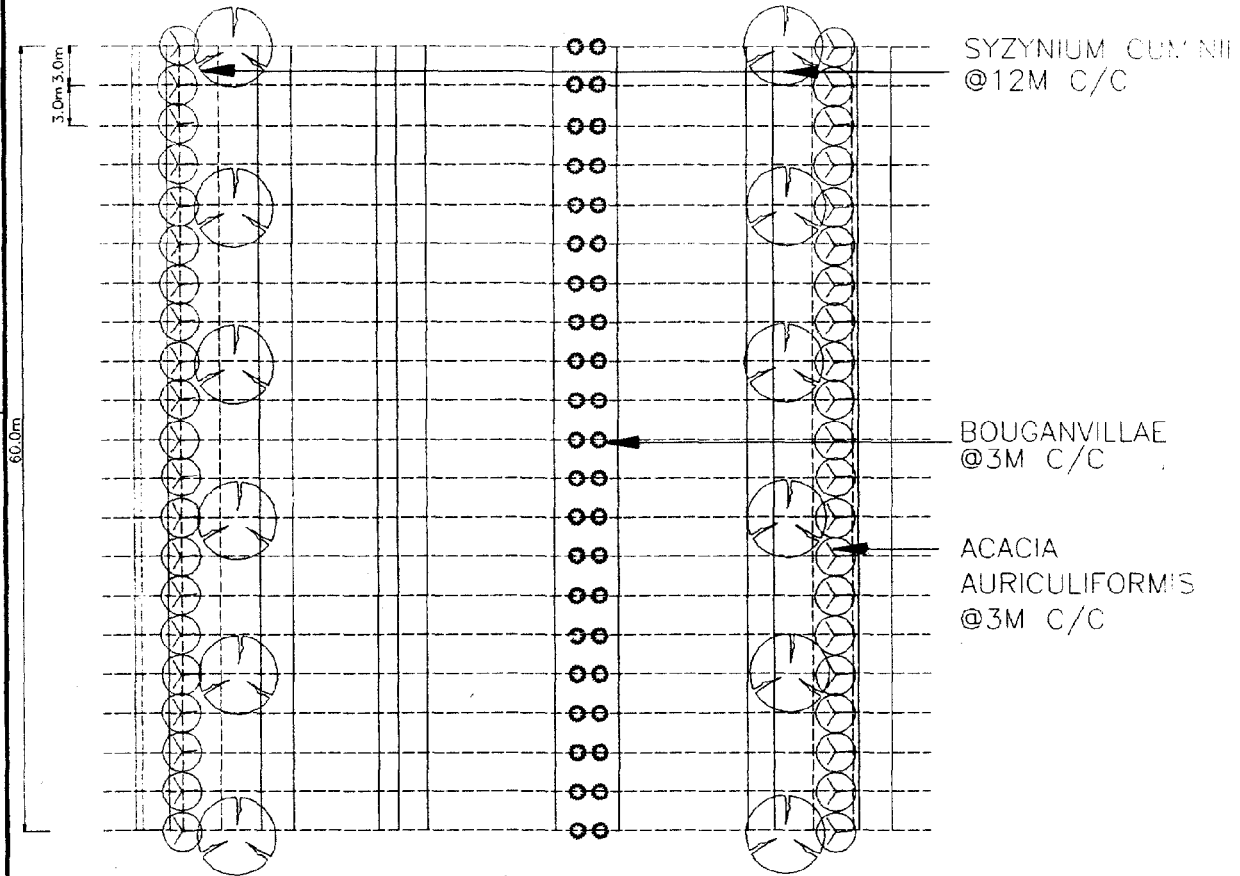
Average ROW available:60m

Space for Plantation: 4m Left
 7m Right

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Syzynium cumini	12	25		
South	Beyond Daylight Line					
	1st row	Syzynium cumini	12	25		
	2nd row	Cassia nodosa	3	100		
Median (5m)	Median					
	1st row	Bouganvillae	3		100	
	2nd row	Bouganvillae	3		100	
Total Section						
	Total	Syzynium cumini		50		
	Total	Cassia nodosa		100		
Total	Trees			150		
	Total	Bouganvillae			200	
	Shrubs				200	
Total	Grass					



SECTION (b) of: 1UC



PLAN (b) of: 1UC

PKG:IV-A, TCS: 1UC, CH-43.2-44.9 CONCENTRIC WIDENING
ROAD LANDSCAPE SECTION: 42-49

URBAN SECTION
Average ROW available = 60m
Space for plantation = 6.5M on each side

LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/DOMICAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Rashtrapati Bhawan
Marginal Road,
New Delhi - 110002.



Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS 43/49

Leo Associates South Asia Pvt. Ltd.
A-226, New Friends Colony,
New Delhi - 110029.
Phone - 626261, 626262



LANDSCAPE PLAN FOR PACKAGE: 4a, TCS-1UC-b (Urban)

Landscape Section: 42-49

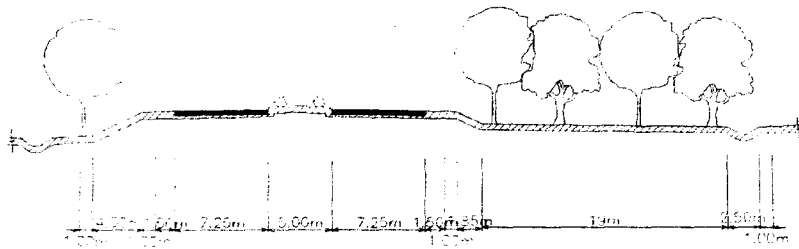
Design Chainage for TCS:43.2-44.9

Length (m): 1700

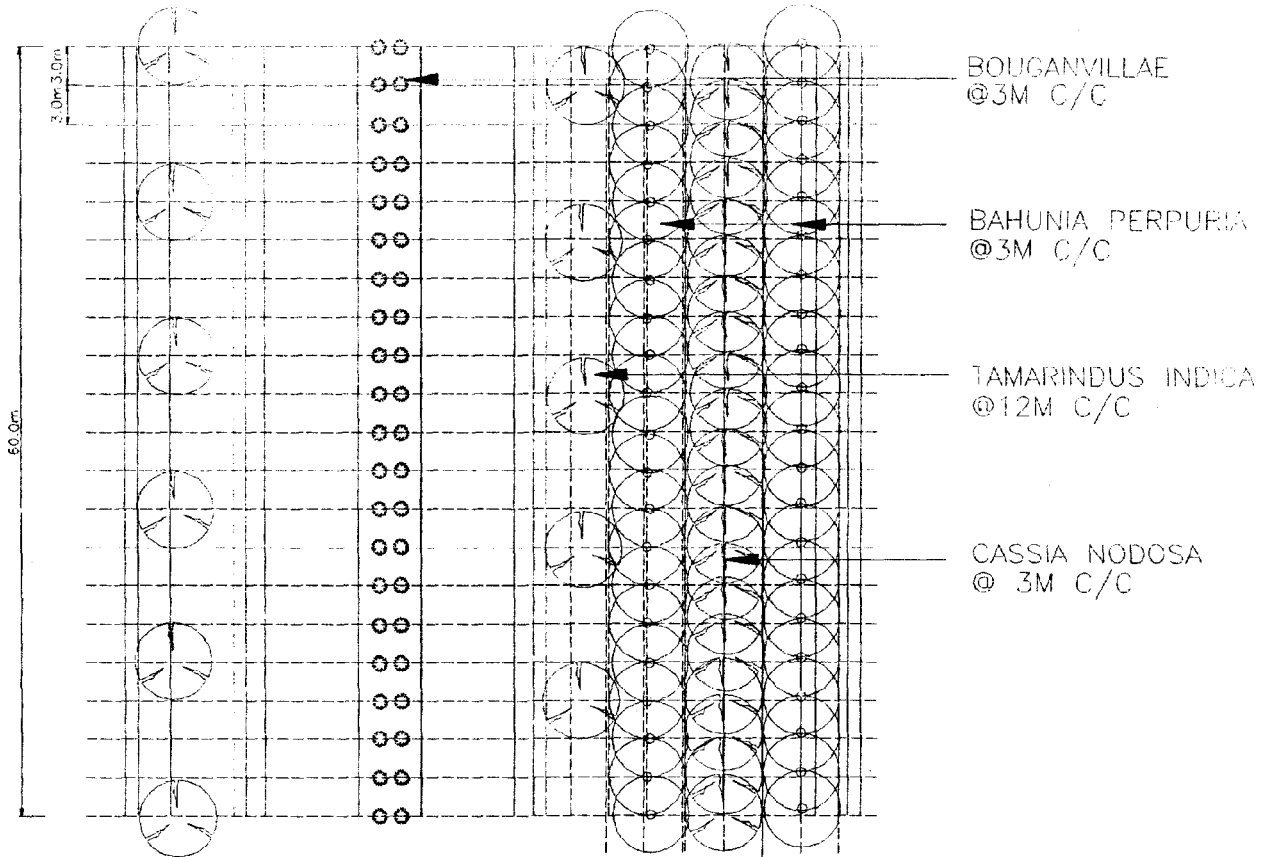
Average ROW available:60m

Space for Plantation: 6.5m Both sides

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Syzynium cumini	12	142		
	2nd row	Acacia auriculiformis	3	567		
South	Beyond Daylight Line					
	1st row	Syzynium cumini	12	142		
	2nd row	Acacia auriculiformis	3	567		
Median (5m)	Median					
	1st row	Bouganvillae	3		567	
	2nd row	Bouganvillae	3		567	
Total Section						
	Total	Syzynium cumini		283		
	Total	Acacia auriculiformis		1133		
Total	Trees			1417		
	Total	Bouganvillae			1133	
	Shrubs				1133	
Total	Grass					



SECTION (d) of : 1RA



PLAN (d) : 1RA

PKG-IV-A, TCS: 1RA, CH-23-27.8, 21.1-21.3
 LEFT SIDE WIDENING
 ROAD LANDSCAPE SECTION: 0-32
 At 23.075-23.325 & 27.275-27.525,
 one row of Tecoma stans (Tall shrub) @ 3m c/c to be
 planted on the North for noise mitigation

RURAL SECTION
 Average ROW available = 56m
 Space for plantation = 1m on left
 19m on right

LEGEND:-

- SHADE/ORNAMENTAL TREES
- TALL/CONICAL AVENUE TREES
- MEDIAN SHRUBS
- GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
 INDEPENDENT ENVIRONMENTAL REVIEW

Scale
 NTS

National Highways Authority Of India
 1, Eastern Avenue
 Mahatma Bhag
 New Delhi - 110002.

Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
 TCS 1RA

Leo Associates South Asia Pvt. Ltd.
 A-220, New Friends Colony,
 New Delhi - 110002.
 Phone - 6222900, 6222000

LANDSCAPE PLAN FOR PACKAGE: 4a, TCS-1RA-a (Rural)

Landscape Section: 0-32

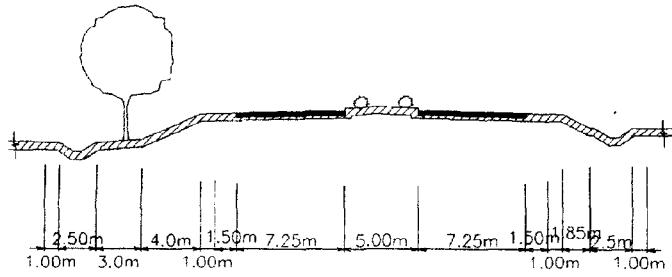
Design Chainage for TCS:21.1-21.3, 23-27.8

Length (m): 5000

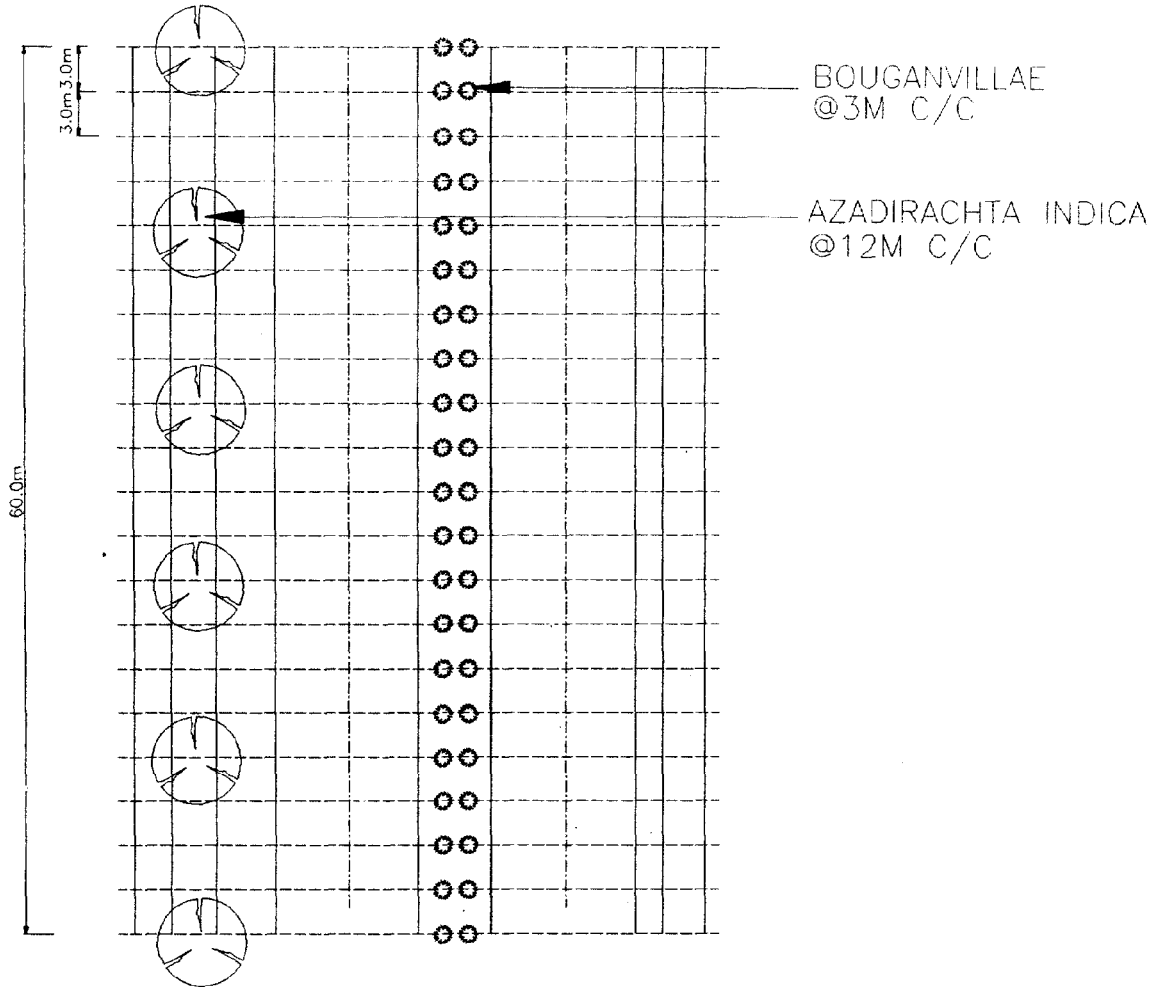
Average ROW available:56m

Space for Plantation: 1m Left
 19m Right

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Tamarindus indica	12	417		
	2nd row(23.075-23.325, 27.275-27.525)	Tecoma stans	3	167		
South	Beyond Daylight Line					
	1st row	Tamarindus indica	12	417		
	2nd row	Bahunia perpuria	3	1667		
	3rd row	Cassia nodosa	3	1667		
	3rd row	Bahunia perpuria	3	1667		
Median (5m)	Median					
	1st row	Bouganvillae	3		1667	
	2nd row	Bouganvillae	3		1667	
Total Section						
	Total	Tamarindus indica		833		
	Total	Bahunia perpuria		3333		
	Total	Cassia nodosa		1667		
	Total	Tecoma stans		167		
Total	Trees			6000		
	Total	Bouganvillae			3333	
Total	Shrubs				3333	



SECTION (b) of: 1RA



PLAN (b) of: 1RA

PKG:IV--A, TCS: 1RA, CH-21.7-23 RIGHT SIDE WIDENING
ROAD LANDSCAPE SECTION: 0-32

RURAL SECTION
Average ROW available = 42m
Space for plantation = 3m on left

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

Notes:
1) No tree is to be planted within 2.5m of an existing tree.
2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS 1RA

National Highways Authority Of India
1, Eastern Avenue
Ministerial Bldg
New Delhi - 110002.

Leo Associates South Asia Pvt. Ltd.
A-202, New Friends Colony,
New Delhi - 110029.
Phone - 4922303, 4922300

LANDSCAPE PLAN FOR PACKAGE: 4a, TCS-1RA-b (Rural)

Landscape Section: 0-32

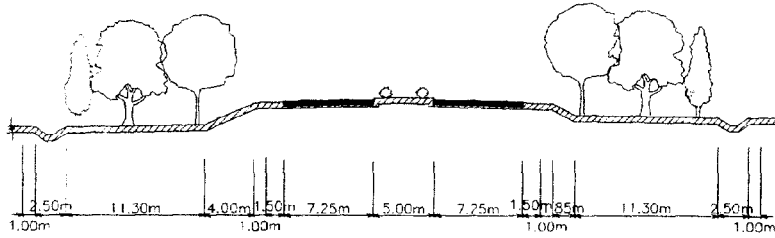
Design Chainage for TCS:21.7-23

Length (m): 1300

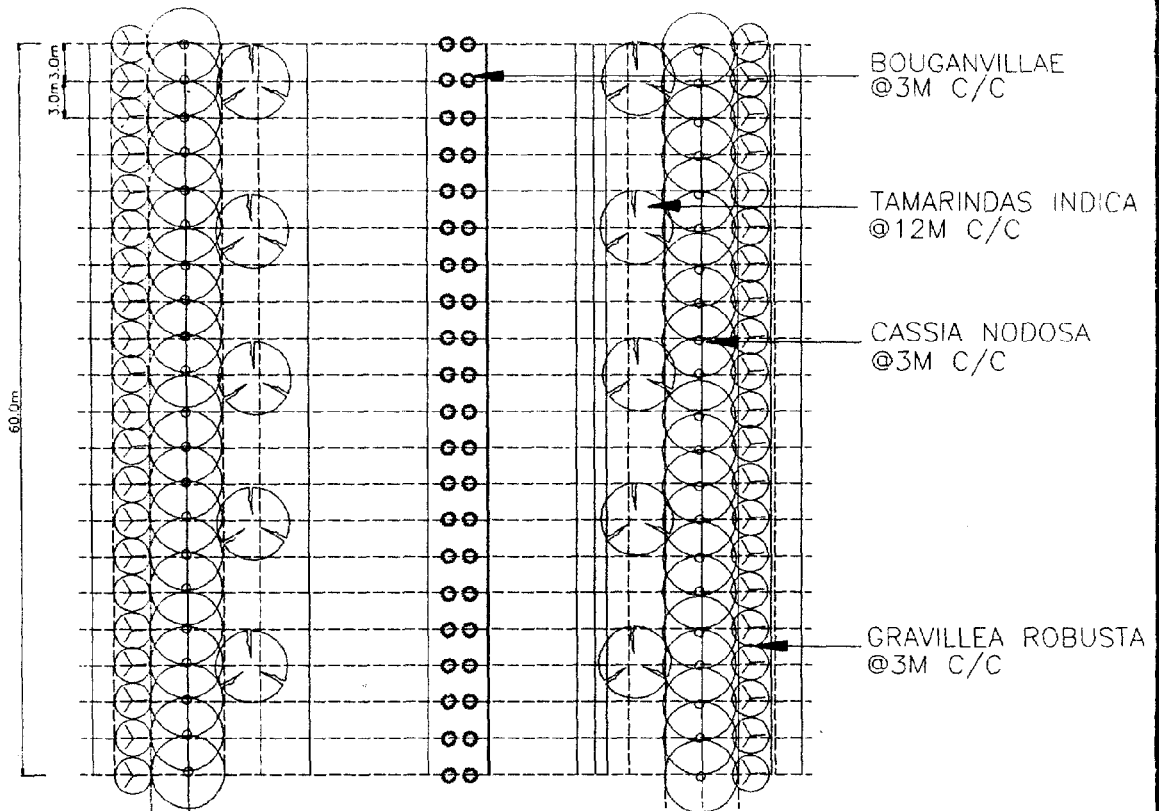
Average ROW available:42m

Space for Plantation: 3m Left

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Azadirachta indica	12	108		
South	Beyond Daylight Line					
	1st row					
Median (5m)	Median					
	1st row	Bouganvillae	3		433	
	2nd row	Bouganvillae	3		433	
Total Section						
	Total	Azadirachta indica		108		
Total	Trees			108		
	Total	Bouganvillae			867	
Total	Shrubs				867	



SECTION (c) of : 1RA



PLAN (c) of: 1RA

PKG:IV-A, TCS: 1RA, CH-21.3-21.7, 12.15-12.25,
45.2-45.9 CONCENTRIC WIDENING
ROAD LANDSCAPE SECTION: 0-32

RURAL SECTION
Average ROW available = 62m
Space for plantation = 11.3m on each side

- LEGEND:-**
- SHADE/ORNAMENTAL TREES
 - TALL/CONICAL AVENUE TREES
 - MEDIAN SHRUBS
 - GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Eastern Avenue
Minister's House
New Delhi - 110005

Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
RHS 10004

Leo Associates South Asia Pvt. Ltd.
A-228, New Friends Colony,
New Delhi - 110002
Phone - 6222908, 6222809



LANDSCAPE PLAN FOR PACKAGE: 4a, TCS-1RA-c(Rural)

Landscape Section: 0-32

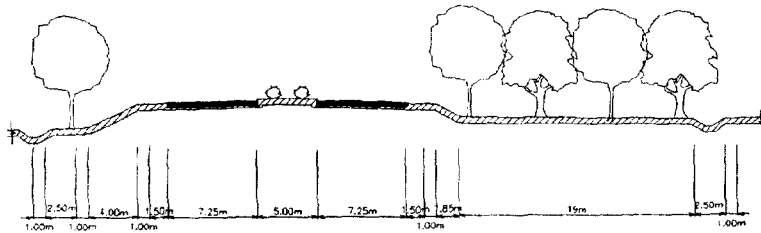
Design Chainage for TCS:21.3-21.7, 12.15-12.25, 45.2-45.9

Length (m): 1200

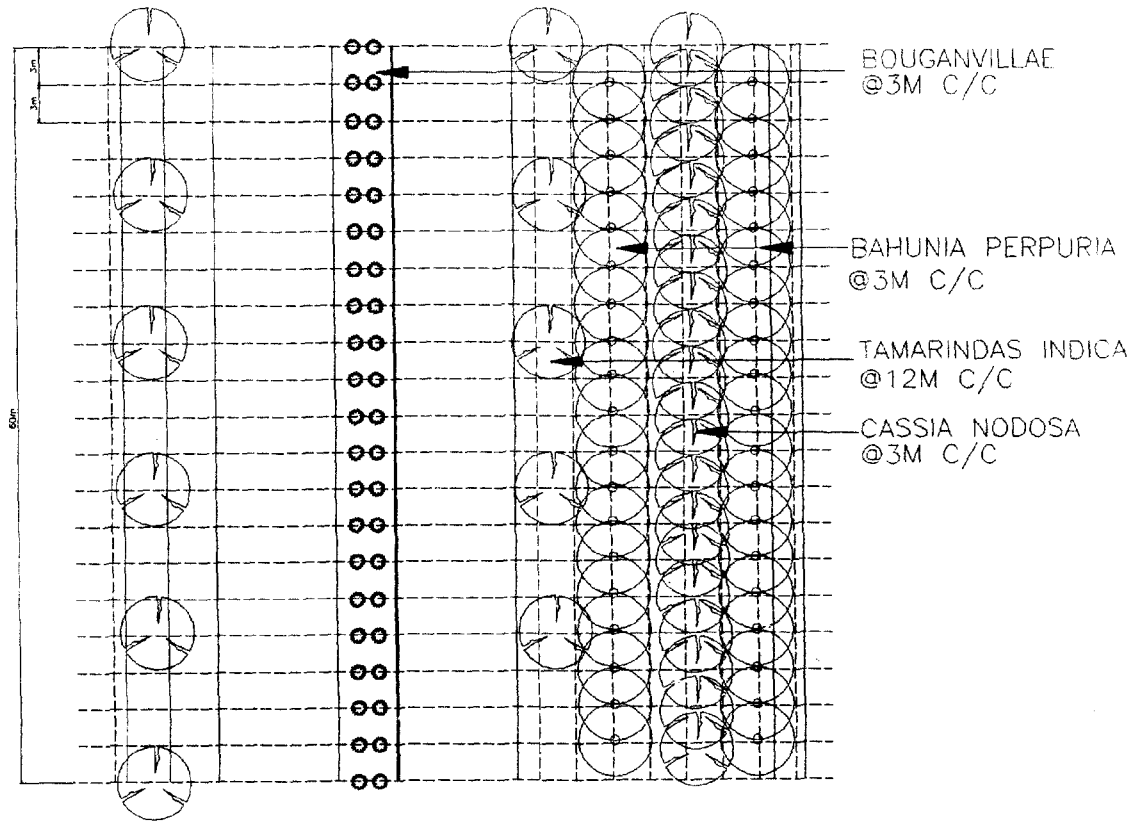
Average ROW available:62m

Space for Plantation: 11.3 Both Sides

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Tamarindus indica	12	100		
	2nd row	Cassia nodosa	3	400		
	3rd row	Gravillea Robusta	3	400		
South	Beyond Daylight Line					
	1st row	Tamarindus indica	12	100		
	2nd row	Cassia nodosa	3	400		
	3rd row	Gravillea Robusta	3	400		
Median (5m)	Median					
	1st row	Bouganvillae	3		400	
	2nd row	Bouganvillae	3		400	
Total Section						
	Total	Tamarindus indica		200		
	Total	Cassia nodosa		800		
	Total	Gravillea Robusta		800		
Total	Trees			1800		
	Total	Bouganvillae			800	
Total	Shrubs				800	



SECTION (d) of: IRA



PLAN (d) of: IRA

PKG:IV-A, TCS: 1RA, CH-32.8-37.1, 38-38.9 LEFT SIDE WIDENING
ROAD LANDSCAPE SECTION: 32-42

RURAL SECTION
Average ROW available = 56m
Space for plantation = 1m on left
19m on right

- LEGENDS-**
- SHADE/ORNAMENTAL TREES
 - TALL/CONICAL AVENUE TREES
 - MEDIAN SHRUBS
 - GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Eastern Avenue
Minister's House
New Delhi - 110001.



- Notes-**
- 1) No tree is to be planted within 2.5m of an existing tree.
 - 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS 0040

Leo Associates South Asia Pvt. Ltd.
A-201, New Panna Colony,
New Delhi - 110028.
Phone - 652255, 652266



LANDSCAPE PLAN FOR PACKAGE: 4a, TCS-1RA-d (Rural)

Landscape Section: 32-42

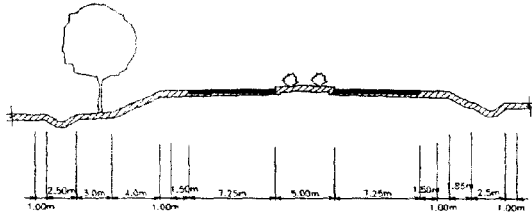
Design Chainage for TCS:32.8-37.1, 38-38.9

Length (m): 5200

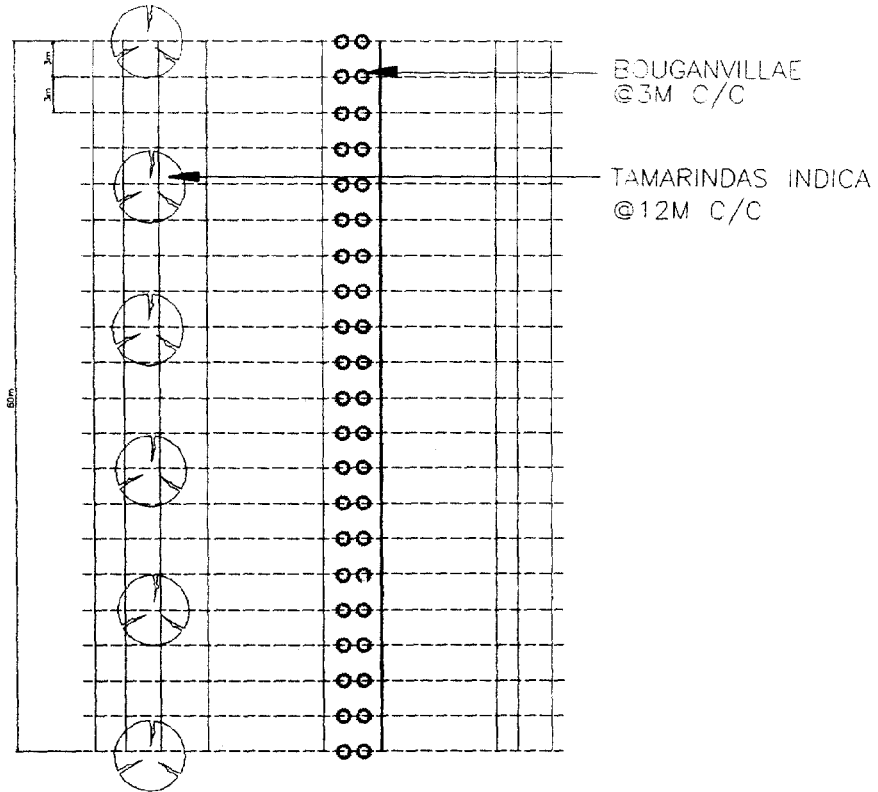
Average ROW available:56m

Space for Plantation: 1m Left
19m Right

	1st row	Tamarindus indica	12	433		
South	Beyond Daylight Line					
	1st row	Tamarindus indica	12	433		
	2nd row	Bahunia perpuria	3	1733		
	3rd row	Cassia nodosa	3	1733		
	3rd row	Bahunia perpuria	3	1733		
Median (5m)	Median					
	1st row	Bouganvillae	3		1733	
	2nd row	Bouganvillae	3		1733	
Total Section						
	Total	Tamarindus indica		867		
	Total	Bahunia perpuria		3467		
	Total	Cassia nodosa		1733		
Total	Trees			6067		
	Total	Bouganvillae			3467	
Total	Shrubs				3467	



SECTION (e) of: IRA



PLAN (e) of: IRA

PKG:IV-A, TCS: 1RA, CH-21.7-23 RIGHT SIDE WIDENING
ROAD LANDSCAPE SECTION: 0-32

RURAL SECTION
Average ROW available = 42m
Space for plantation = 3m on left

- LEGEND:**
- SHADE/ORNAMENTAL TREES
 - TALL/ORNICAL AVENUE TREES
 - MEDIAN SHRUBS
 - GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Sadhana Avenue
Minister Road
New Delhi - 110002



- Notes:**
- 1) No tree is to be planted within 2.5m of an existing tree.
 - 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TOP IRRAJ

Leo Associates South Asia Pvt. Ltd.
A-202, New Preetam Colony,
New Delhi - 110002
Phone - 6222626, 6222625



LANDSCAPE PLAN FOR PACKAGE: 4a, TCS-1RA-e(Rural)

Landscape Section: 0-32

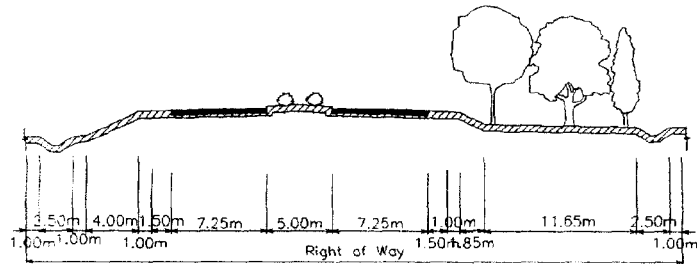
Design Chainage for TCS:21.7-23

Length (m): 1300

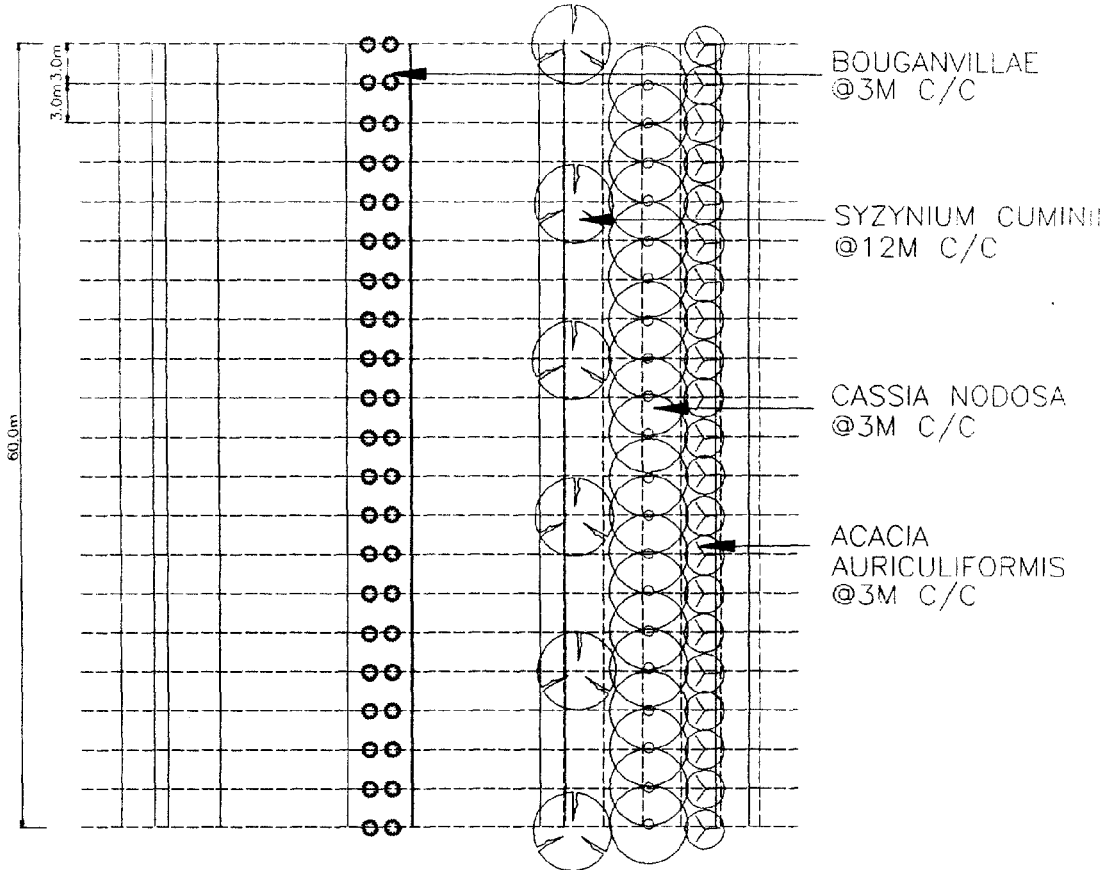
Average ROW available:42m

Space for Plantation: 3m Left

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Tamarindus indica	12	108		
South	Beyond Daylight Line					
	1st row					
Median (5m)	Median					
	1st row	Bouganvillae	3		433	
	2nd row	Bouganvillae	3		433	
Total Section						
	Total	Tamarindus indica		108		
Total	Trees			108		
	Total	Bouganvillae			867	
Total	Shrubs				867	



SECTION (f) of: 1RA



PLAN (f) of: 1RA

PKG:IV-A, TCS: 1RA, CH-11.7-42.75 LEFT SIDE WIDENING
ROAD LANDSCAPE SECTION: 32-42

RURAL SECTION
Average ROW available = 50m
Space for plantation = 11.65m on right

LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Rashtrapati Bhawan
Mahatma Street,
New Delhi - 110011.



Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS 1RA(f)

Leo Associates South Asia Pvt. Ltd.
A-229, New Friends Colony,
New Delhi - 110029.
Phone - 6262600, 6262609



LANDSCAPE PLAN FOR PACKAGE: 4a, TCS-1RA-f (Rural)

Landscape Section: 32-42

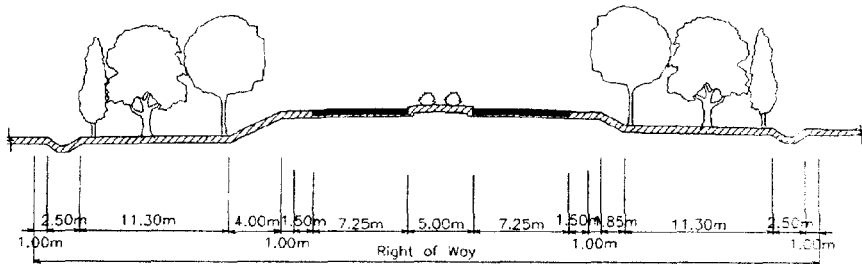
Design Chainage for TCS: 41.7-42.75

Length (m): 1050

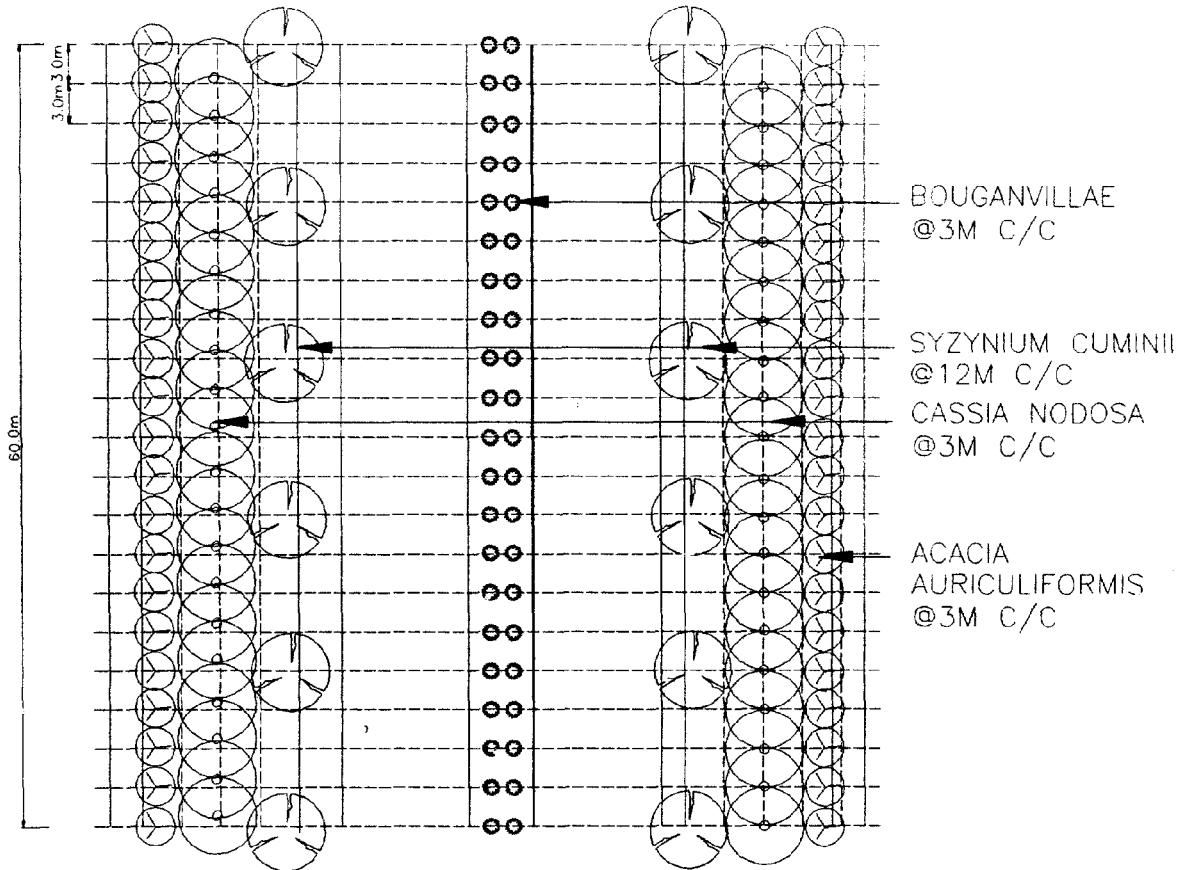
Average ROW available: 50m

Space for Plantation: 11.65 Right

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
South	Beyond Daylight Line					
	1st row	Syzynium cumini	12	88		
	2nd row	Cassia nodosa	3	350		
	3rd row	Acacia auriculiformis	3	350		
Median (5m)	Median					
	1st row	Bouganvillae	3		350	
	2nd row	Bouganvillae	3		350	
Total Section						
	Total	Syzynium cumini		88		
	Total	Cassia nodosa		350		
	Total	Acacia auriculiformis		350		
Total	Trees			788		
	Total	Bouganvillae			700	
Total	Shrubs				700	



SECTION (g) of: 1RA



PLAN (g) of : 1RA

PKG:IV-A, TCS: 1RA, CH-63.1-65.0 CONCENTRIC WIDENING
ROAD LANDSCAPE SECTION: 49-65

RURAL SECTION
Average ROW available =60m
Space for plantation =11.3M on each side

LEGEND:-
SHADE/ORNAMENTAL TREES
TALL/CONICAL AVENUE TREES
MEDIUM SHRUBS
GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Eastern Avenue
Minister Road
New Delhi - 110028



Notes:-
1) No tree is to be planted within 2.5m of an existing tree.
2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS 0043

Leo Associates South Asia Pvt. Ltd.
A-225, New P.C. Road Colony,
New Delhi - 110028.
Phone - 2622202, 2622203



LANDSCAPE PLAN FOR PACKAGE: 4a, TCS-1RA-g(Rural)

Landscape Section: 49-65

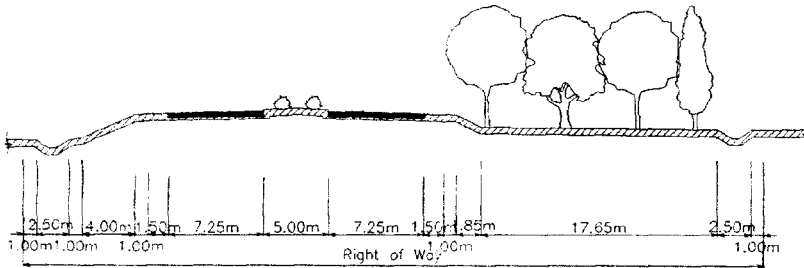
Design Chainage for TCS:63.1-65

Length (m): 1900

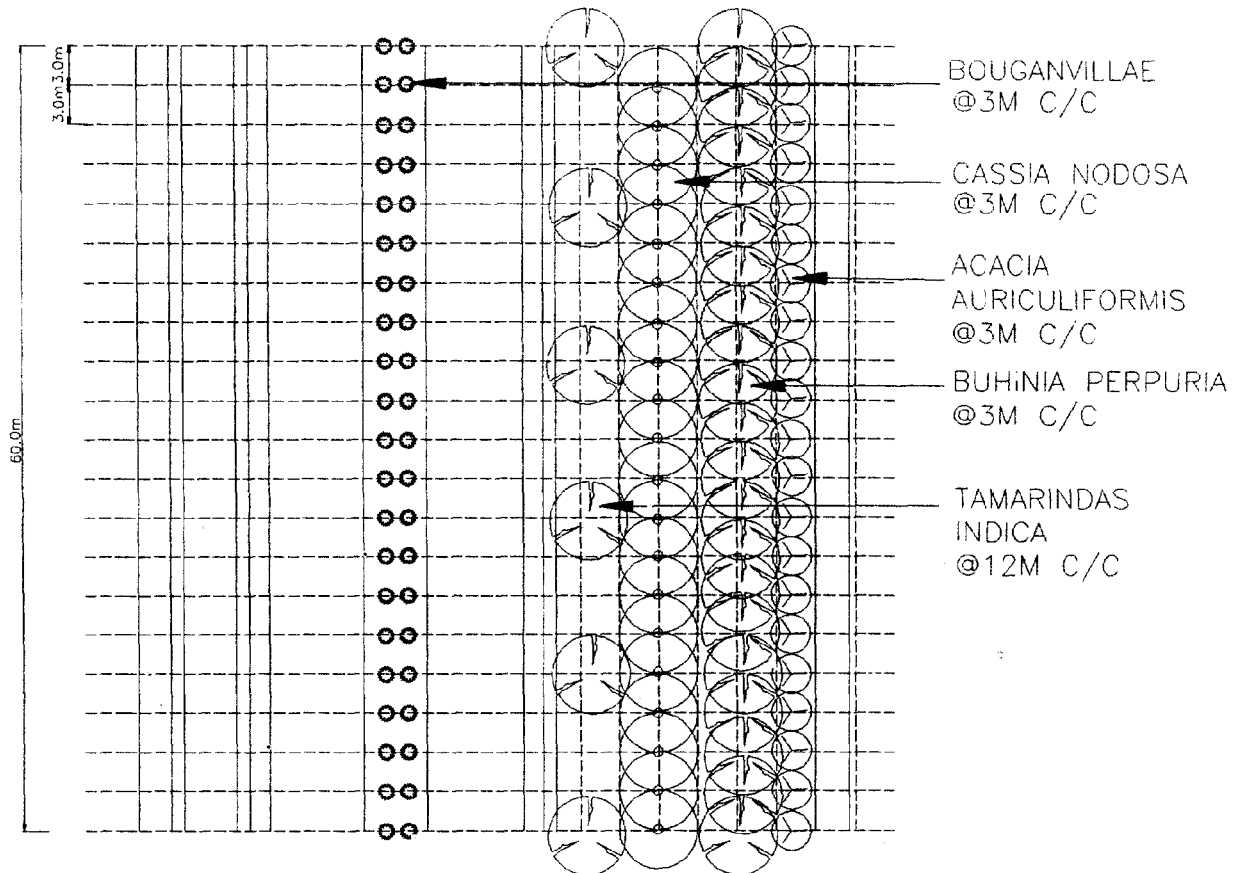
Average ROW available:62m

Space for Plantation: 11.3 Both Sides

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Syzygium cumini	12	158		
	2nd row	Cassia nodosa	3	633		
	3rd row	Acacia auriculiformis	3	633		
South	Beyond Daylight Line					
	1st row	Syzygium cumini	12	158		
	2nd row	Cassia nodosa	3	633		
	3rd row	Acacia auriculiformis	3	633		
Median (5m)	Median					
	1st row	Bougainvilleae	3		633	
	2nd row	Bougainvilleae	3		633	
Total Section						
	Total	Syzygium cumini		317		
	Total	Cassia nodosa		1267		
	Total	Acacia auriculiformis		1267		
Total	Trees			2850		
	Total	Bougainvilleae			1267	
Total	Shrubs				1267	



SECTION (h) of: 1RA



PLAN (h) of: 1RA

PKG:IV-A, TCS: 1RA, CH-49-50,60.8-63.1 LEFT SIDE WIDENING
ROAD LANDSCAPE SECTION: 49-65

RURAL SECTION
Average ROW available = 64m
Space for plantation = 1m on left
17.25m on right

LEGEND:

- SHADE / ORNAMENTAL TREES
- TALL / CONICAL AVENUE TREES
- MEDIAN SHRUBS
- GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Notes:

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Scale
NTS

Fig. No.
TCS 1044

National Highways Authority Of India
1, Eastern Avenue
Minister's Bldg
New Delhi - 110001

Lee Associates South Asia Pvt. Ltd.
A-225, Near Panchsheel Colony,
New Delhi - 110028
Phone - 6252001, 6252002

LEV ASSOCIATES

LANDSCAPE PLAN FOR PACKAGE: 4a, TCS-1RA-h (Rural)

Landscape Section:49-65

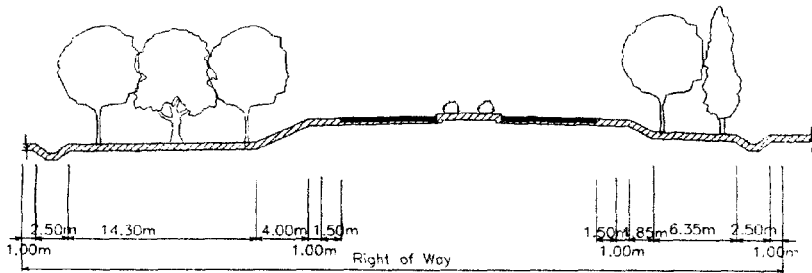
Design Chainage for TCS:49-50, 60.8-63.1

Length (m): 3300

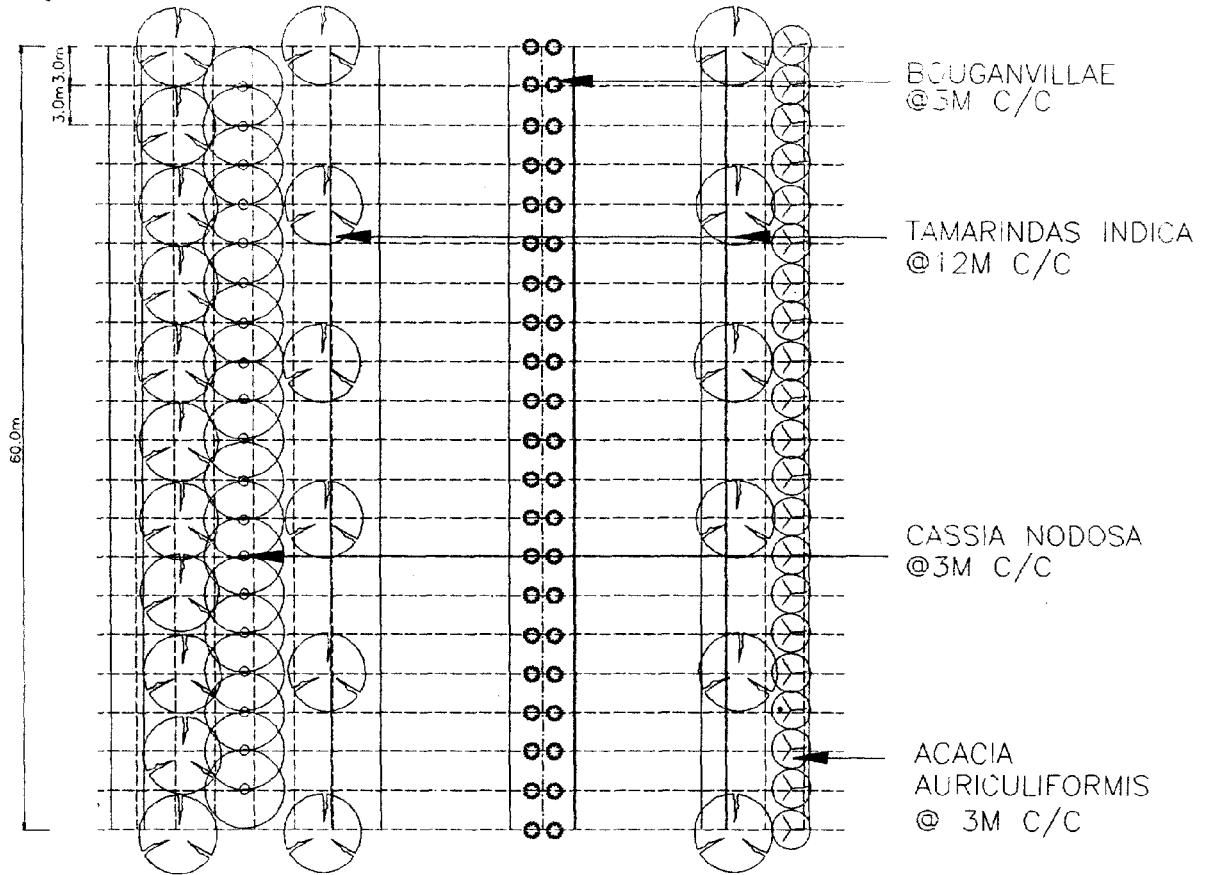
Average ROW available:64m

Space for Plantation: 1m Left
 17.25m Right

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
South	Beyond Daylight Line					
	1st row	Tamarindus indica	12	275		
	2nd row	Cassia nodosa	3	1100		
	3rd row	Bahunia perpuria	3	1100		
	4th row	Acacia auriculiformis	3	1100		
Median (5m)	Median					
	1st row	Bouganvillae	3		1100	
	2nd row	Bouganvillae	3		1100	
Total Section						
	Total	Tamarindus indica		275		
	Total	Cassia nodosa		1100		
	Total	Bahunia perpuria		1100		
	Total	Acacia auriculiformis		1100		
Total	Trees			3575		
	Total	Bouganvillae			2200	
Total	Shrubs				2200	



SECTION (i) of: 1RA



PLAN (i) of: 1RA

PKG:IV-A, TCS: IRA-49-49.2.50-56.5
LEFT SIDE WIDENING
ROAD LANDSCAPE SECTION: 49-65

RURAL SECTION
Average ROW available = 64m
Space for plantation = 14.3m on left
6.35m on right

LEGEND-

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIUM SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Notes-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Scale
NTS

Fig. No.
TUS 0049

National Highways Authority Of India
1, Eastern Avenue
Minister's Bldg
New Delhi - 110002.

Leo Associates South Asia Pvt. Ltd.
A-202, New Panchsheel Colony,
New Delhi - 110028.
Phone - 622200, 622200



LANDSCAPE PLAN FOR PACKAGE: 4a, TCS-1RA-i(Rural)

Landscape Section:32-42

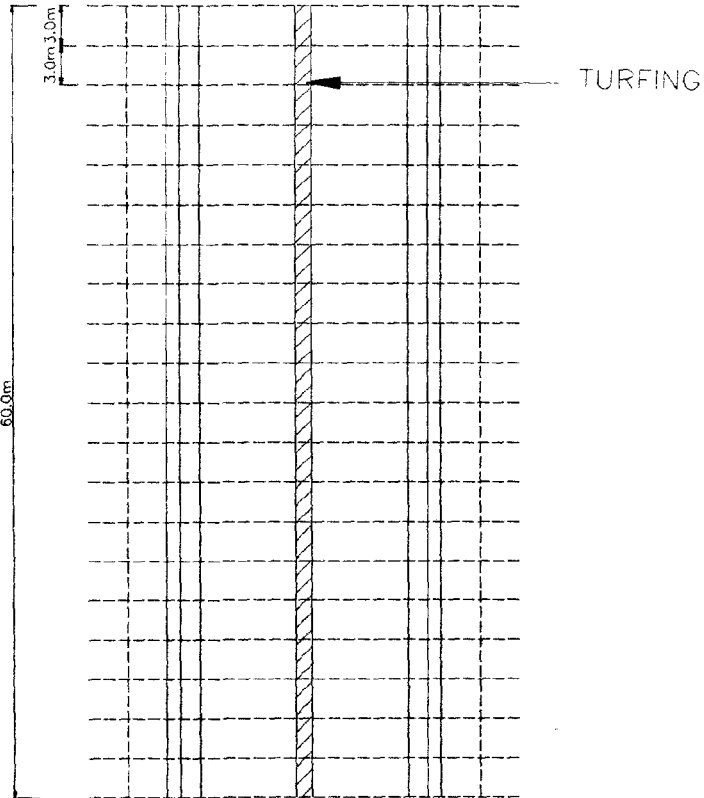
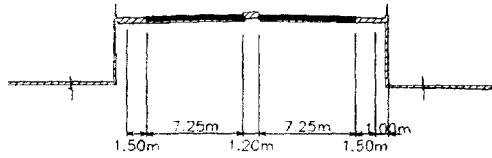
Design Chainage for TCS: 49-49.2, 50-56.5

Length (m): 6700

Average ROW available:64m

Space for Plantation: 14.3m Left
6.35m Right

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Tamarindus indica	12	558		
	2nd row	Cassia nodosa	3	2233		
	3rd row	Tamarindus indica	3	2233		
South	Beyond Daylight Line					
	1st row	Tamarindus indica	12	558		
	2nd row	Acacia auriculiformis	3	2233		
Median (5m)	Median					
	1st row	Bouganvillae	3		2233	
	2nd row	Bouganvillae	3		2233	
Total Section						
	Total	Tamarindus indica		3350		
	Total	Cassia nodosa		2233		
	Total	Acacia auriculiformis		2233		
Total	Trees			7817		
	Total	Bouganvillae			4467	
Total	Shrubs				4467	



PKG:IV-A, TCS: 1RB, CH-47-47.65 CONCENTRIC WIDENING
ROAD LANDSCAPE SECTION: 49-65

RURAL SECTION
Average ROW available = 19m
Space for plantation = none

- LEGEND:-**
- SHADE/ORNAMENTAL TREES
 - TALL/CONICAL AVENUE TREES
 - MEDIAN SHRUBS
 - GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
MTS

National Highways Authority Of India
1, Eastern Avenue
Minister's Bldg
New Delhi - 110002



- Notes:-**
- 1) No tree is to be planted within 2.5m of an existing tree.
 - 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS 1RB00

Leo Associates South Asia Pvt. Ltd.
A-202, New Parkside Colony,
New Delhi - 110028
Phone - 6222224, 6222225



LANDSCAPE PLAN FOR PACKAGE: 4a, TCS-1RB-a(Rural)

Landscape Section: 49-65

Design Chainage for TCS: 56.5-57.8

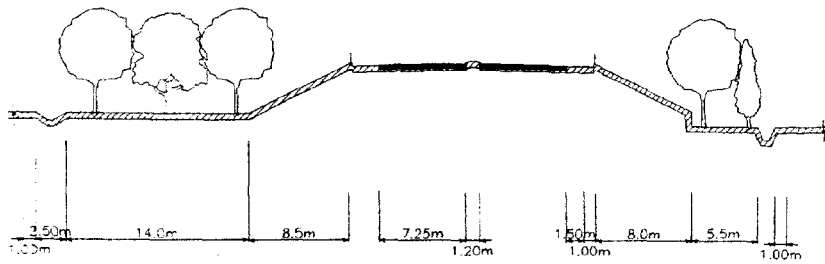
Length (m): 1300

Average ROW available: 64m

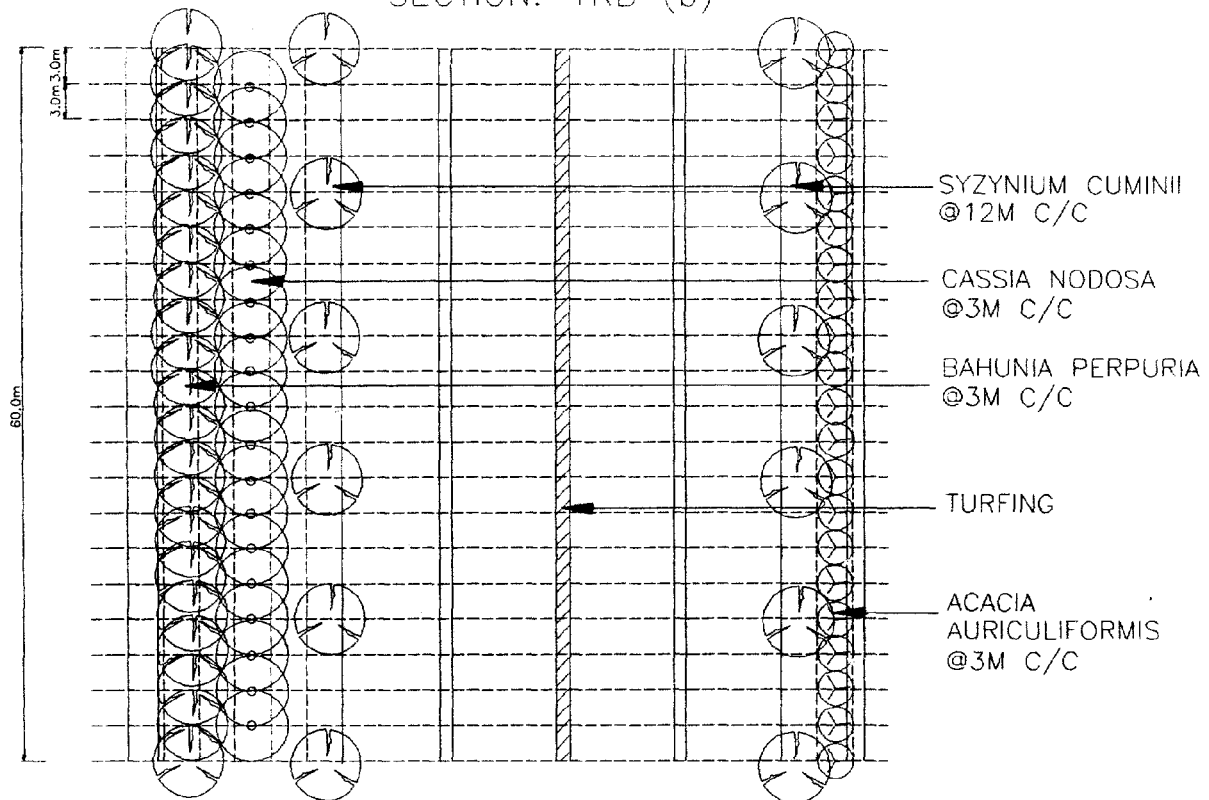
Space for Plantation: 14m Left

5.5m Right

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m ²)
	1st row	Syzynium cumini	12	108		
	2nd row	Cassia nodosa	3	433		
	3rd row	Bahunia perpuria	3	433		
South	Beyond Daylight Line					
	1st row	Syzynium cumini	12	108		
	2nd row	Acacia auriculiformis	3	433		
Median (1.2m)	Median					
	Grass					1560
Total Section						
	Total	Syzynium cumini		217		
	Total	Cassia nodosa		433		
	Total	Bahunia perpuria		433		
	Total	Acacia auriculiformis		433		
Total	Trees			1083		
	Shrubs				0	
Total	Grass					1560



SECTION: 1RB (b)



PLAN: 1RB (b)

PKG-IV-A, TCS: 1RB, CH-56.5-57.8 RIGHT SIDE WIDENING
ROAD LANDSCAPE SECTION: 49-65

RURAL SECTION
Average ROW available = 64m
Space for plantation = 14m on left
5.5m on right

LEGEND

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL ACACIA TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Bandra Avenue
New Delhi - 110002



Notes

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS 0000

Lee Associates South Asia Pvt. Ltd.
A-220, New Friends Colony,
New Delhi - 110029
Phone - 6162001, 6162002



LANDSCAPE PLAN FOR PACKAGE: 4a, TCS-1RB (Rural)

Landscape Section: 42-49

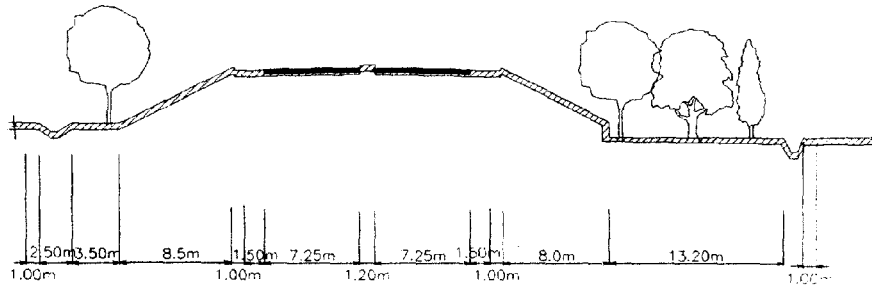
Design Chainage for TCS:47-47.65

Length (m): 650

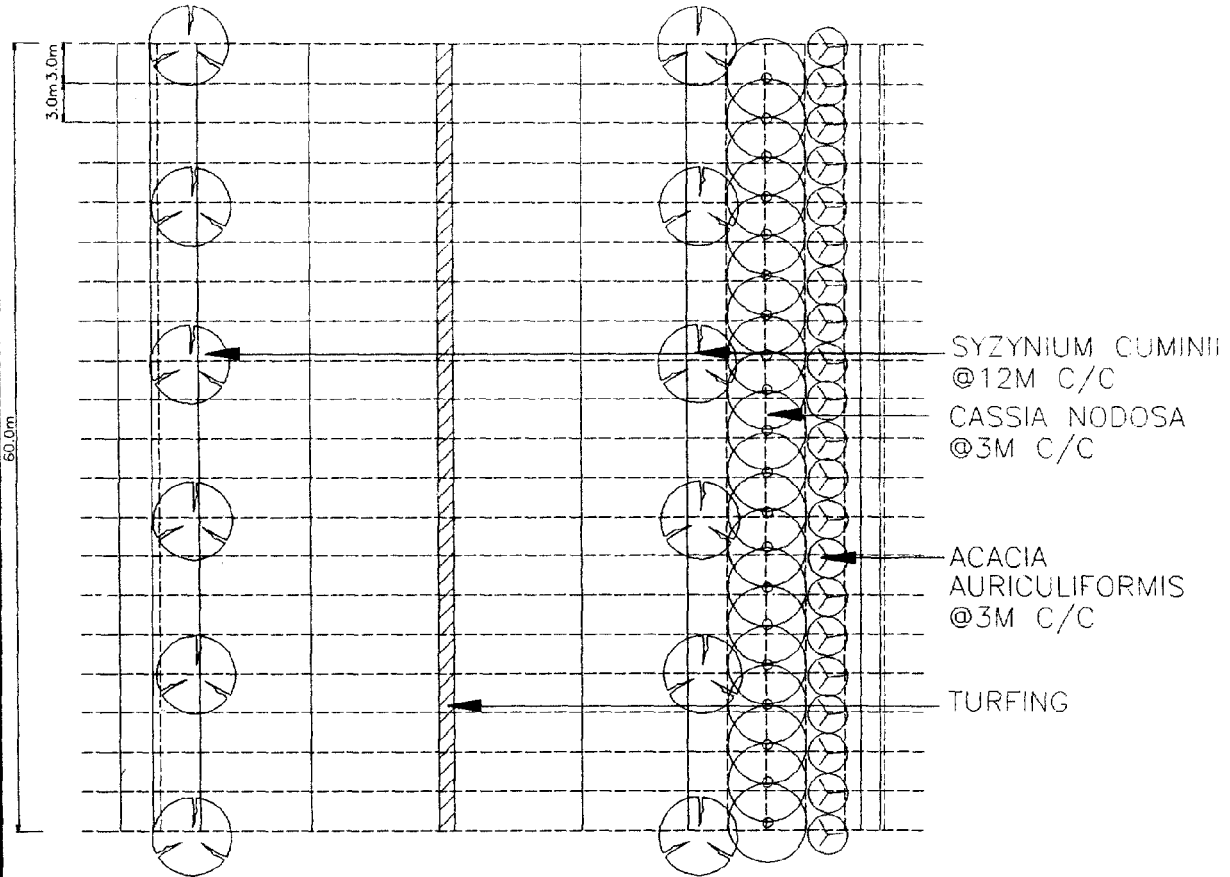
Average ROW available: 19m

Space for Plantation: None Left

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
South	Beyond Daylight Line					
Median (1.2m)	Median					
	Grass					780
Total Section						
Total	Trees			0		
Total	Shrubs				0	
Total	Grass					780



SECTION: 1RC



PLAN: 1RC

PKG:IV-A, TCS: 1RC, CH-45.9-47 LEFT SIDE WIDENING
ROAD LANDSCAPE SECTION: 42-49

RURAL SECTION
Average ROW available = 60m
Space for plantation = 3.5m on left
13.2m on right

LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority of India
1, Eastern Avenue
Minister's Office
New Delhi - 110015



- Notes:-**
- 1) No tree is to be planted within 2.5m of an existing tree.
 - 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS 1RC

Leo Associates South Asia Pvt. Ltd.
A-220, New Friends Colony,
New Delhi - 110029
Phone - 6262001, 6262002



LANDSCAPE PLAN FOR PACKAGE: 4a, TCS-1RC(Rural)

Landscape Section:42-49

Design Chainage for TCS:45.9-47

Length (m): 1100

Average ROW available:60m

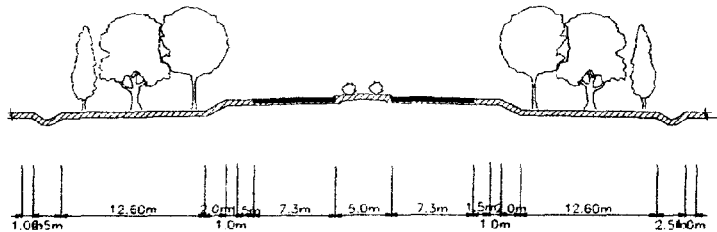
Space for Plantation: 3.5m Left

13.2m Right

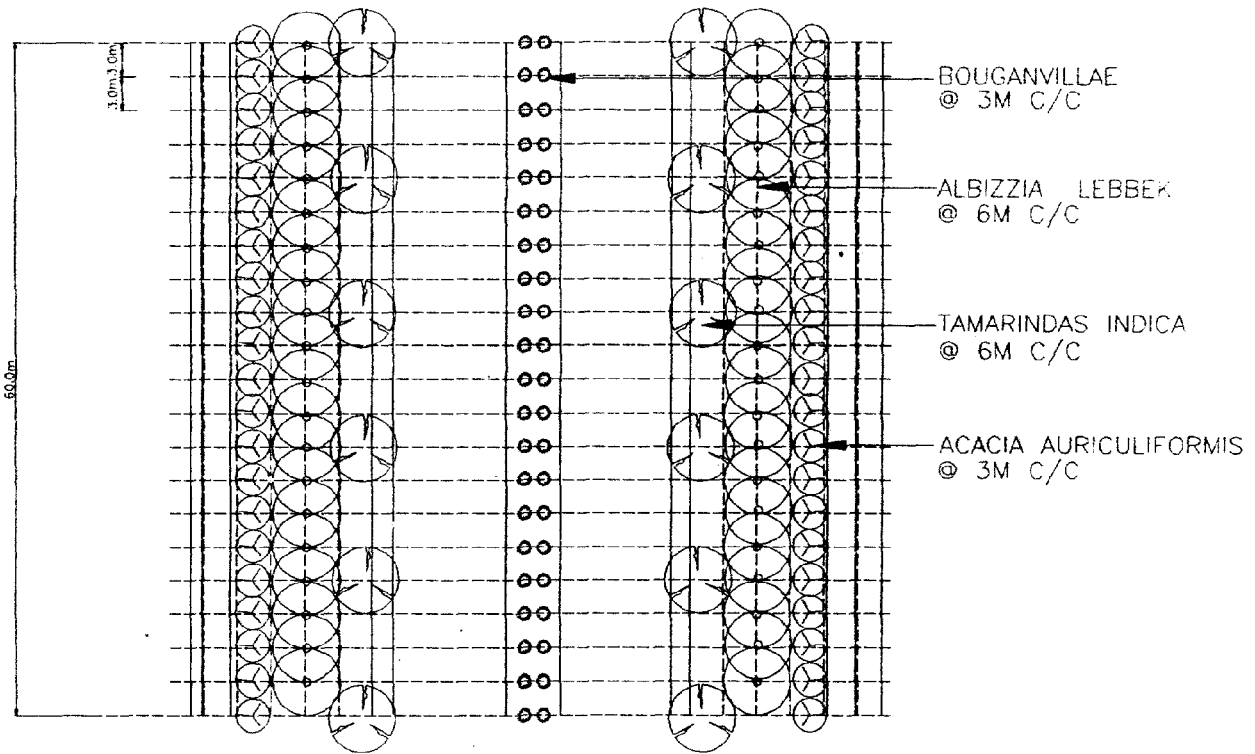
North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Syzygium cumini	12	92		
South	Beyond Daylight Line					
	1st row	Syzygium cumini	12	92		
	2nd row	Cassia nodosa	3	367		
	2nd row	Acacia auriculiformis	3	367		
Median (1.2m)	Median					
	Grass					1320
Total Section						
	Total	Syzygium cumini		183		
	Total	Cassia nodosa		367		
	Total	Acacia auriculiformis		367		
Total	Trees			917		
	Shrubs				0	
Total	Grass					1320

Appendix 7

Landscape Drawings and Tree Plantation Table for Package IV-C



SECTION:1RA (C1)



PLAN:1RA (C1)

PKG:IV-C, TCS:1RA(C1), CH:130.4-130.6, 301.5-307.85, 308.3-311.025, 312.425-322.27. CONCENTRIC WIDENING
ROAD LANDSCAPE SECTION: 110-131

RURAL SECTION
Average ROW available = 60m
Space for plantation = 12.6Mm on each side

	SHADE/ORNAMENTAL TREES
	TALL/CANICAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Eastern Avenue
Minister's Bldg
New Delhi - 110002.



Notes:
1) No tree is to be planted within 2.5m of an existing tree.
2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS 1RA/C

Leo Associates South Asia Pvt. Ltd.
A-505, New Friends Colony,
New Delhi - 110029.
Phone - 6222001, 6222002



LANDSCAPE PLAN FOR PACKAGE: 4c, TCS-1RA-c1 (Urban)

Landscape Section: 110-131

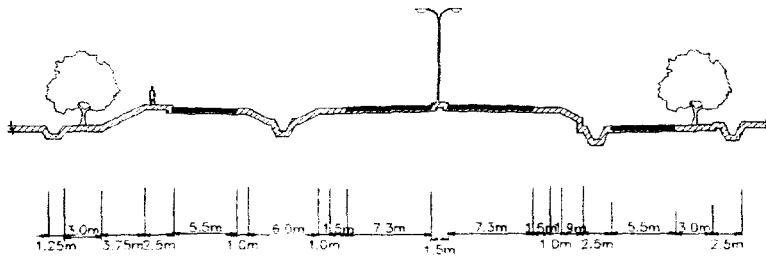
Design Chainage for TCS: 130.4-130.6, 301.5-307.85, 308.3-311.025, 312.425-322.27

Length (m): 19120

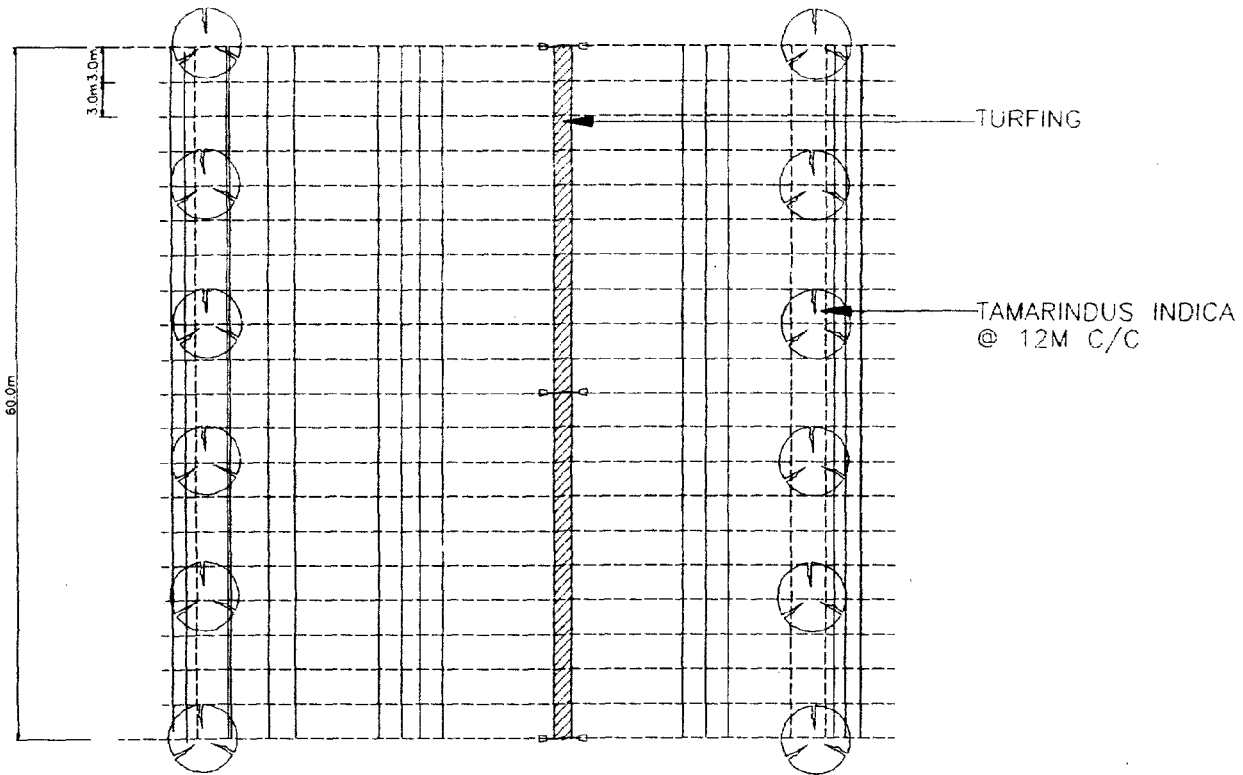
Average ROW available: 60m

Space for Plantation: 12.6m, Both sides

North	Beyond Daylight Line	Species	Spacing (@m c/c)	No. of Trees	No. of shrubs	Turfed area (m2)
	1st row	Tamarindus indica	12	1593		
	2nd row	Albizzia lebbek	3	6373		
	3rd row	Acacia auriculiformis	3	6373		
South	Beyond Daylight Line					
	1st row	Tamarindus indica	12	1593		
	2nd row	Albizzia lebbek	3	6373		
	3rd row	Acacia auriculiformis	3	6373		
Median (5m)	Median					
	1st row	Bouganvillae	3		6373	
	2nd row	Bouganvillae	3		6373	
Total section						
	Total	Tamarindus indica		3187		
	Total	Albizzia lebbek		12747		
	Total	Acacia auriculiformis		12747		
Total	Trees			28680		
	Total	Bouganvillae			12747	
Total	Shrubs				12747	



SECTION: 1UA/1UD (C1)



PLAN: 1UA/1UD (C1)

PKG:IV-C, TCS:1UA(C1), CH: 131.4-135.6, 311.025-312.425, CONCENTRIC WIDENING
 PKG:IV-C, TCS:1UD(C1), CH: 307.85-308.3 CONCENTRIC WIDENING
 ROAD LANDSCAPE SECTION: 110-131

URBAN SECTION
 Average ROW available = 60m
 Space for plantation = 3m on each side

LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIUM SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
 INDEPENDENT ENVIRONMENTAL REVIEW

Scale
 NTS

National Highways Authority Of India
 1, Eastern Avenue
 Mahatma Bhag
 New Delhi - 110001.



Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
 TCS 1UA/1UD

Lee Associates South Asia Pvt. Ltd.
 A-228, New Pritam Colony,
 New Delhi - 110005.
 Phone - 011-2622000, 011-2622005



LANDSCAPE PLAN FOR PACKAGE: 4c, TCS-1UA-c1, UD -c1(Urban)

Landscape Section: 110-131

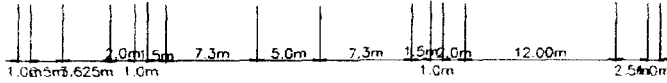
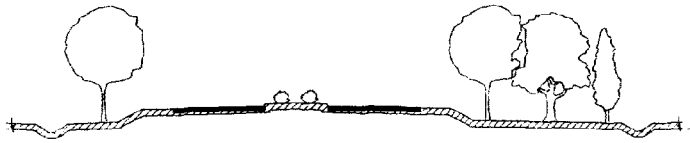
Design Chainage for TCS: 131.4-135.6, 311.025-312.425, 307.85-308.3

Length (m): 6050

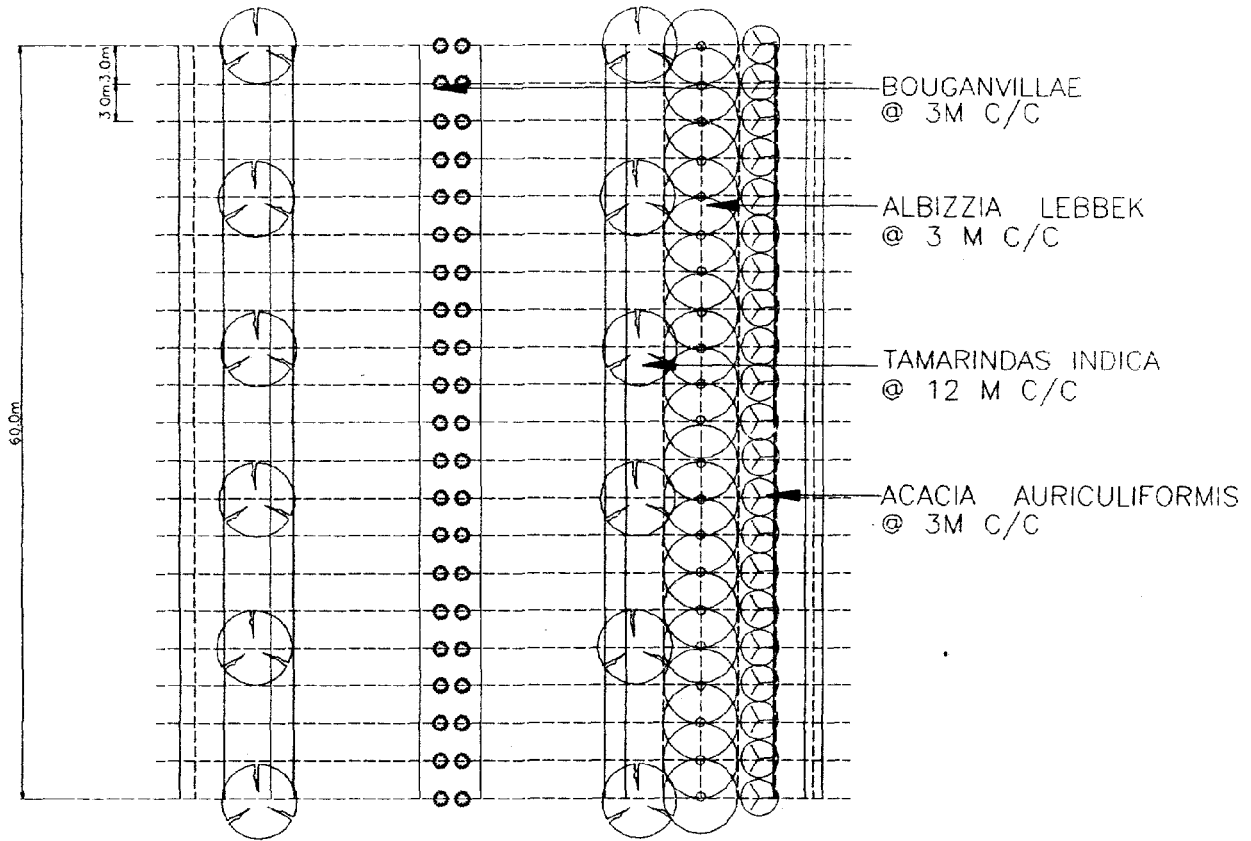
Average ROW available: 60m

Space for Plantation: 3m Both sides

North	Beyond Daylight Line	Species	Spacing (@m c/c)	No. of Trees	No. of shrubs	Turfed area (m2)
	1st row	Tamarindus indica	12	504		
South	Beyond Daylight Line					
	1st row	Tamarindus indica	12	504		
Median (1.5m)	Median					
	Grass					9075
Total section						
	Total	Tamarindus indica		1008		
Total	Trees			1008		
	Grass					9075



SECTION: 1RA (N1)



PLAN: 1RA (N1)

PKG-IV-C, TCS:1RA(N1), CH110-111.4 LEFT SIDE WIDENING ROAD LANDSCAPE SECTION: 110-131

RURAL SECTION
Average ROW available = 51m
Space for plantation = 3.625m on left
12.0m on right

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project	GRAND TRUNK ROAD IMPROVEMENT PROJECT INDEPENDENT ENVIRONMENTAL REVIEW
Notes	1) No tree is to be planted within 2.5m of an existing tree. 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Scale	NTS
Fig. No.	TCS 1RA1

National Highways Authority Of India 1, Bhoodan Avenue Mahatma Bhag New Delhi - 110002.	
Leo Associates South Asia Pvt. Ltd. A-228, New Friends Colony, New Delhi - 110029. Phone - 626666, 626666	

LANDSCAPE PLAN FOR PACKAGE: 4c, TCS-1RA-n1 (Urban)

Landscape Section: 110-131



Design Chainage for TCS: 110-111.4

Length (m): 1400

Average ROW available: 51m

Space for Plantation: 3.625m Left, 12m Right

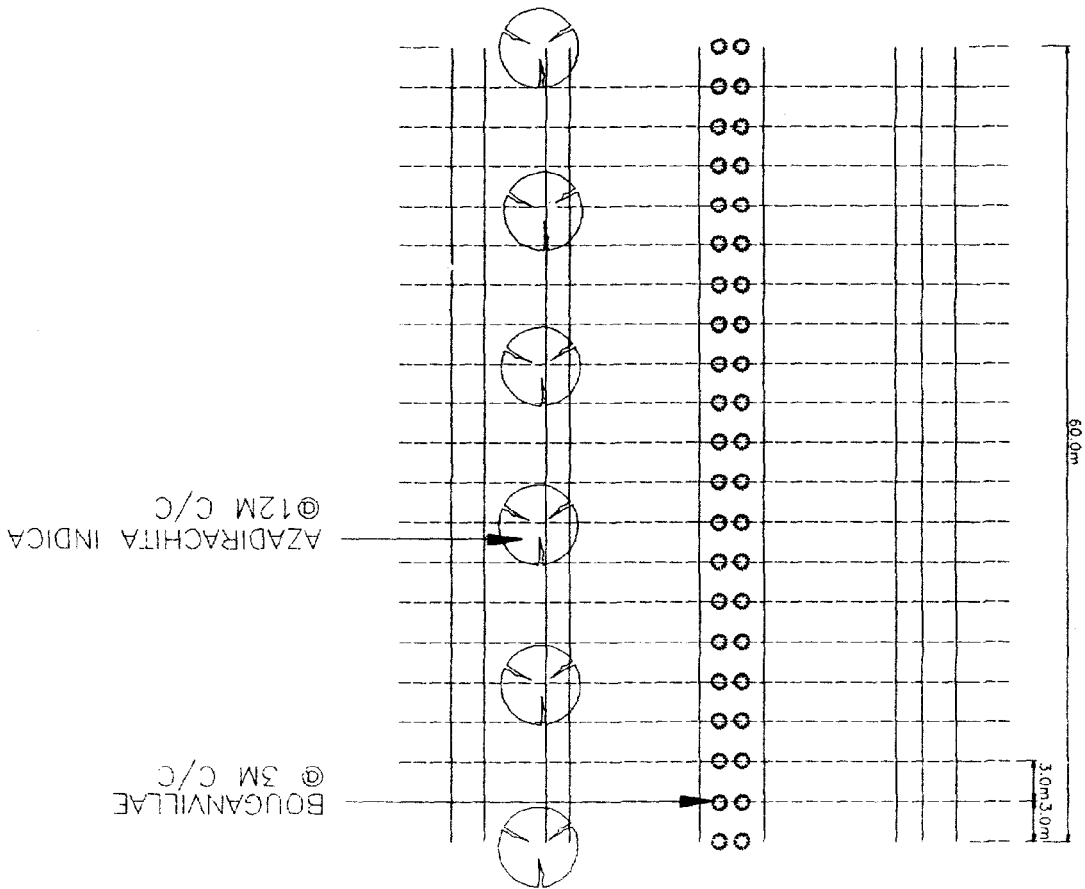
North	Beyond Daylight Line	Species	Spacing (@m c/c)	No. of Trees	No. of shrubs	Turfed area (m2)
	1st row	Tamarindus indica	12	117		
South	Beyond Daylight Line					
	1st row	Tamarindus indica	12	117		
	2nd row	Albizzia lebbek	3	467		
	3rd row	Acacia auriculiform	3	467		
Median (5m)	Median					
	1st row	Bouganvillae	3		467	
	2nd row	Bouganvillae	3		467	
Total section						
	Total	Tamarindus indica		233		
	Total	Albizzia lebbek		467		
	Total	Acacia auriculiformis		467		
Total	Trees			1167		
	Total	Bouganvillae			933	
Total	Shrubs				933	

 <p>Leas Associates South Asia Pvt. Ltd. 4-5th, New Friends Colony, Phase - BANGALORE, KARNATAKA New Delhi - 110028</p>	<p>TCS PLAN Fig. No.</p>	<p>Notes- 1) No tree is to be planted within 2.5m of an existing tree. where ever extra space is available, unless otherwise specified. 2) Alternate inner and outer rows of trees are to be replanted.</p>	<p>LEGEND-</p> <ul style="list-style-type: none"> ○ ○ CROSS NUMBER ○ ○ NEWPL SHARPS ○ ○ TALL/COCKAT ○ ○ MEDIUM TREES ○ ○ SHORT/COMMON TREES
 <p>National Highways Authority of India 1, Rashtrapati Bhavan New Delhi - 110001</p>	<p>Scale NTS</p>	<p>Project GRAND TRUNK ROAD IMPROVEMENT PROJECT INDEPENDENT ENVIRONMENTAL REVIEW</p>	

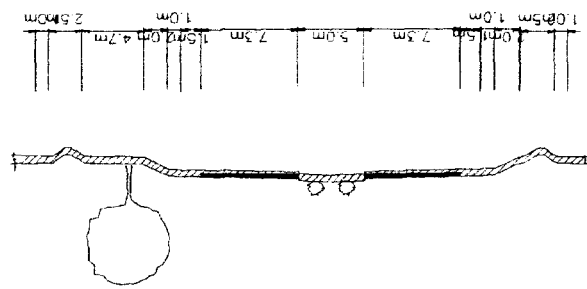
PKG:IV-C, TCS:1RA(N2), CH:131-131.4 LEFT SIDE WIDENING
 ROAD LANDSCAPE SECTION: 131-140

RURAL SECTION
 Average ROW available = 40m
 Space for plantation = 4.7m on right

PLAN: 1RA (N2)



SECTION: 1RA (N2)



LANDSCAPE PLAN FOR PACKAGE: 4c, TCS-1RA-n2 (Rural)

Landscape Section: 110-131

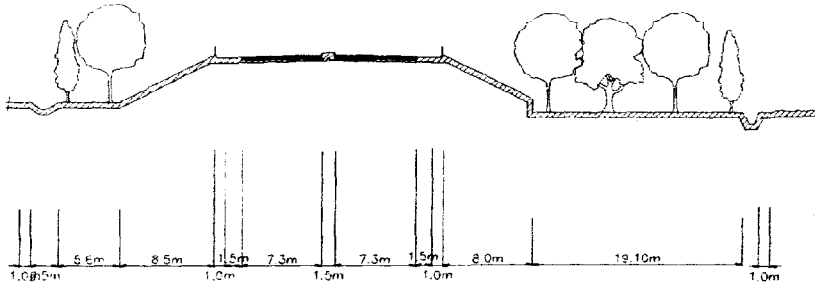
Design Chainage for TCS: 131-131.4

Length (m): 400

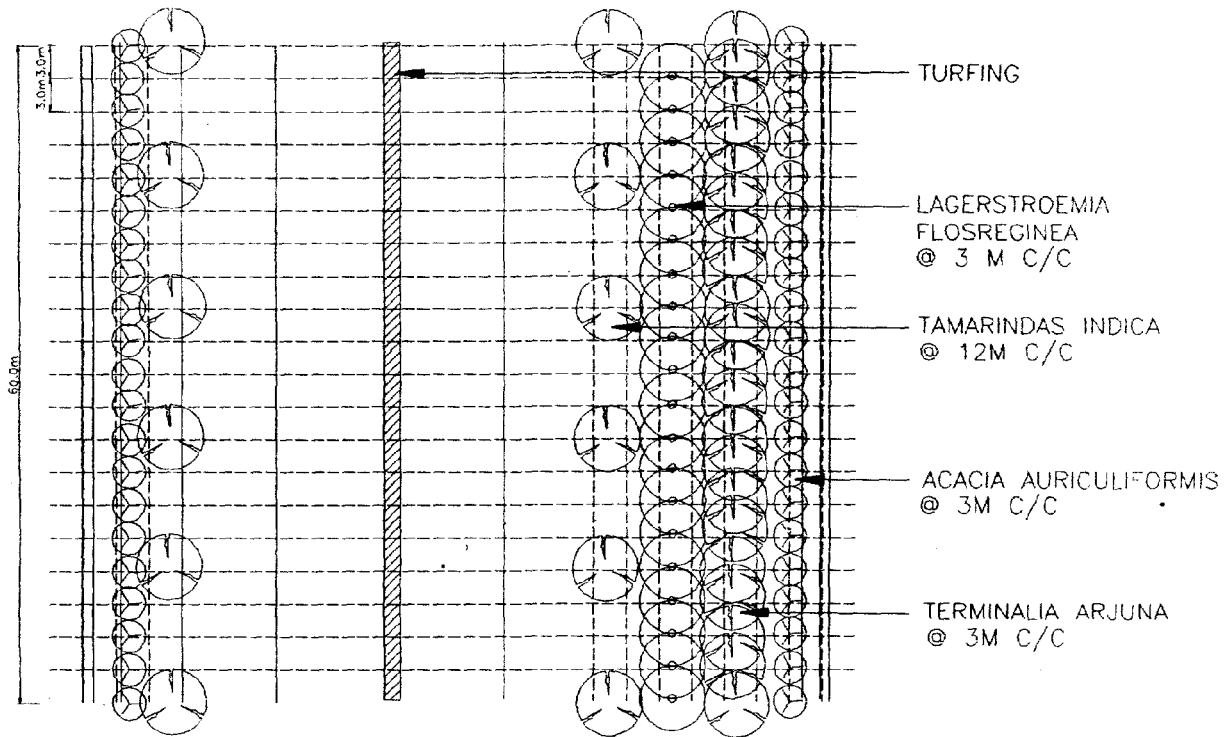
Average ROW available: 40m

Space for Plantation: 4.7m Right

North	Beyond Daylight Line	Species	Spacing (@m c/c)	No. of Trees	No. of shrubs	Turfed area (m2)
South	Beyond Daylight Line					
	1st row	Azarachita indica	12	33		
Median (5m)	Median					
	1st row	Bouganvillae	3		133	
	2nd row	Bouganvillae	3		133	
Total section						
	Total	Azarachita indica		33		
Total	Trees			33		
	Total	Bouganvillae			267	
Total	Shrubs				267	



SECTION: 1RC (N2)



PLAN: 1RC (N2)

PK:IV-C, TCS:1RC(N2), CH:139-139.4 LEFT SIDE WIDENING ROAD LANDSCAPE SECTION: 131-140

RURAL SECTION
Average ROW available = 65m
Space for plantation = 5.6m on left
19m on right

- LEGEND:-**
- ☉ SHADE TREES
 - ☉ ORNAMENTAL TREES
 - ☉ CONICAL TREES
 - ☉ SHRUBS
 - ▨ TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Chhatra Avenue
Minister Road
New Delhi - 110002



Note:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS 1RC

Leo Associates South Asia Pvt. Ltd.
A-205, New Pimpri Colony,
New Delhi - 110002
Phone - 6222000, 6222000



LANDSCAPE PLAN FOR PACKAGE: 4c, TCS-1RC-n2 (Rural)

Landscape Section: 110-131

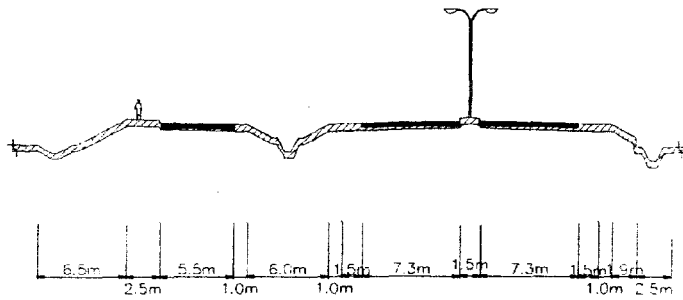
Design Chainage for TCS: 131-131.4

Length (m): 400

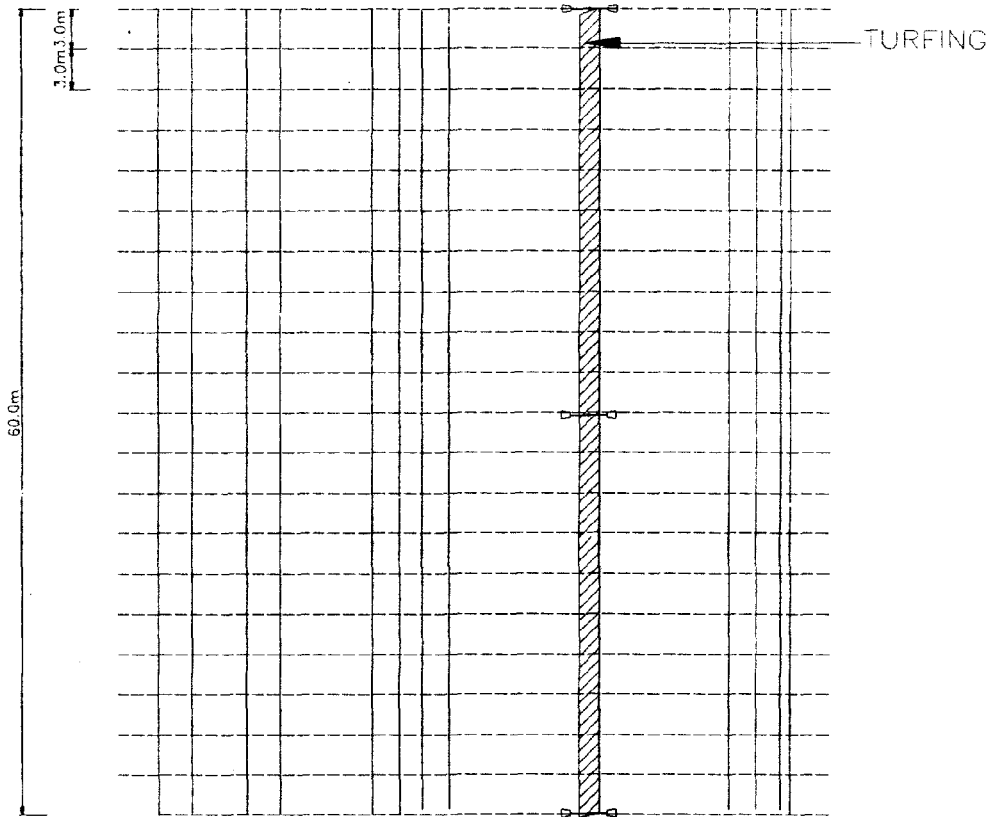
Average ROW available: 40m

Space for Plantation: 4.7m Right

North	Beyond Daylight Line	Species	Spacing (@m c/c)	No. of Trees	No. of shrubs	Turfed area (m2)
	1st row	Tamarindus indica	12	33		
	2nd row	Acacia auriculiformis	3	133		
South	Beyond Daylight Line					
	1st row	Tamarindus indica	12	33		
	2nd row	Lagerstroemia florreginea	3	133		
	3rd row	Terminalia arjuna	3	133		
	4th row	Acacia auriculiformis	3	133		
Median (1.5m)	Median					
	Grass					600
Total section						
	Total	Tamarindus indica		67		
	Total	Lagerstroemia florreginea		267		
	Total	Terminalia arjuna		133		
	Total	Acacia auriculiformis		133		
Total	Trees			600		
Total	Grass					600



SECTION:1UA (CN2)



PLAN:1UA (CN2)

PKG:IV-C, TCS:1UA(CN2), CH:131.4-135.6,
139.4-140 LEFT/CONCENTRIC WIDENING
ROAD LANDSCAPE SECTION: 131-140

URBAN SECTION
Average ROW available =50m
Space for plantation = None

- LEGEND:-**
- SHADE/ORNAMENTAL TREES
 - TALL/CONICAL AVENUE TREES
 - MEDIAN SHRUBS
 - GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
KTS

National Highways Authority Of India
1, Eastern Avenue
Mahabul Singh
New Delhi - 110086.



- Notes:-**
- 1) No tree is to be planted within 2.5m of an existing tree.
 - 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCS 1UA2

Lee Associates South Asia Pvt. Ltd.
A-202, New Friends Colony,
New Delhi - 110026.
Phone - 6162222, 6162222



LANDSCAPE PLAN FOR PACKAGE: 4c, TCS-1UA-cn2(Urban)

Landscape Section: 110-131

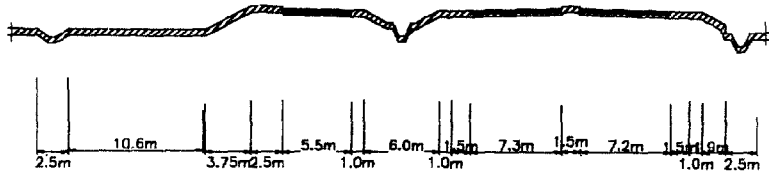
Design Chainage for TCS: 131.4-135.6, 139.4-140

Length (m): 4800

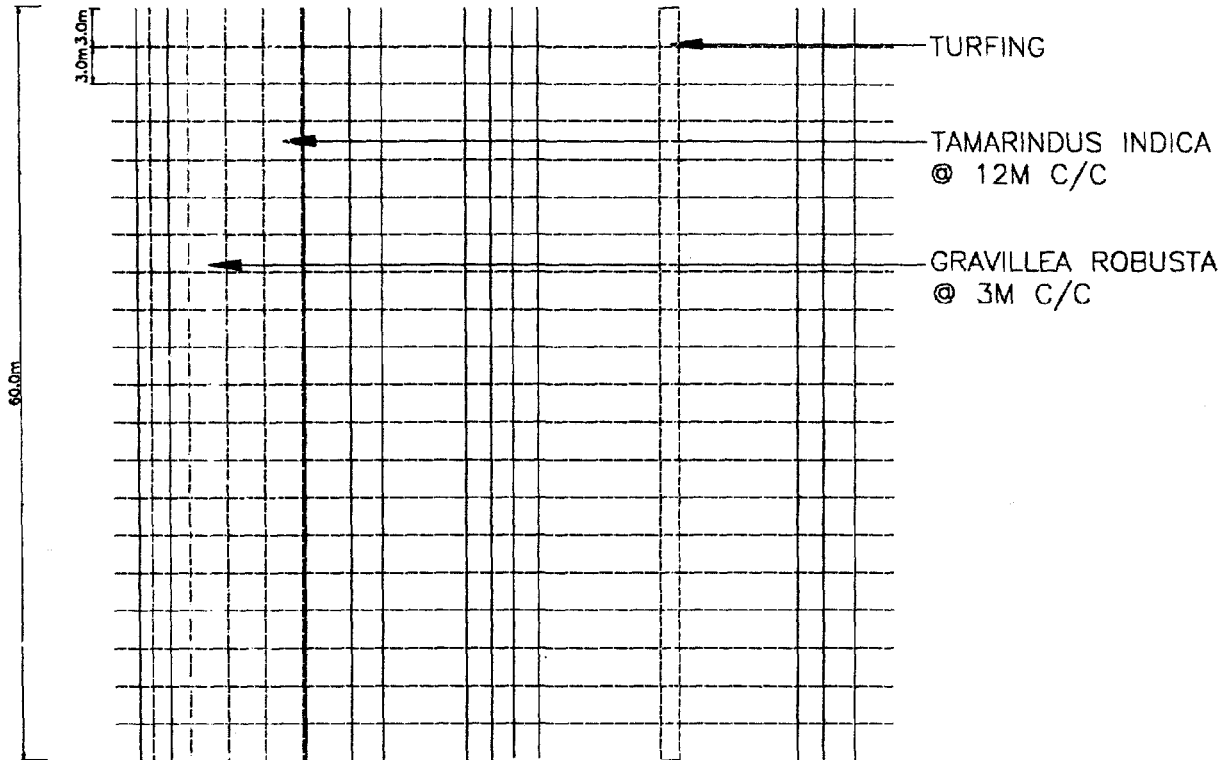
Average ROW available: 50m

Space for Plantation: None

North	Beyond Daylight Line	Species	Spacing (@m c/c)	No. of Trees	No. of shrubs	Turfed area (m2)
South	Embankment/Retaining Wall (Inner)					
Median (1.5m)	Median					
	Grass					7200
Total section						
	Grass					7200



SECTION: 1UA (S2)



PLAN: 1UA (S2)

PKG:V-C, TCS:1UA(S2), CH: 139-139.4 RIGHT SIDE WIDENING
ROAD LANDSCAPE SECTION: 131-140

URBAN SECTION
Average ROW available = 60m
Space for plantation = 10.6m on left

LEGEND:-
 SHADE/ORNAMENTAL TREES
 TALL/CONDOL AVENUE TREES
 MEDIUM SHRUBS
 GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
 INDEPENDENT ENVIRONMENTAL REVIEW

Scale
 NTB

National Highways Authority Of India
 1, Eastern Avenue
 Indraprastha
 New Delhi - 110002

Notes:-
 1) No tree is to be planted within 2.0m of an existing tree.
 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
 TCS 1UA S

Lee Associates South Asia Pvt. Ltd.
 A-229, New Friends Colony,
 New Delhi - 110002,
 Phone - 6222602, 6222603



LANDSCAPE PLAN FOR PACKAGE: 4c, TCS-1UA-s2(Urban)

Landscape Section: 110-131

Design Chainage for TCS: 139-139.4

Length (m): 400

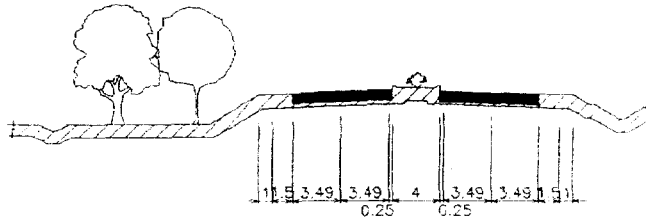
Average ROW available: 60m

Space for Plantation: 10.6m Left

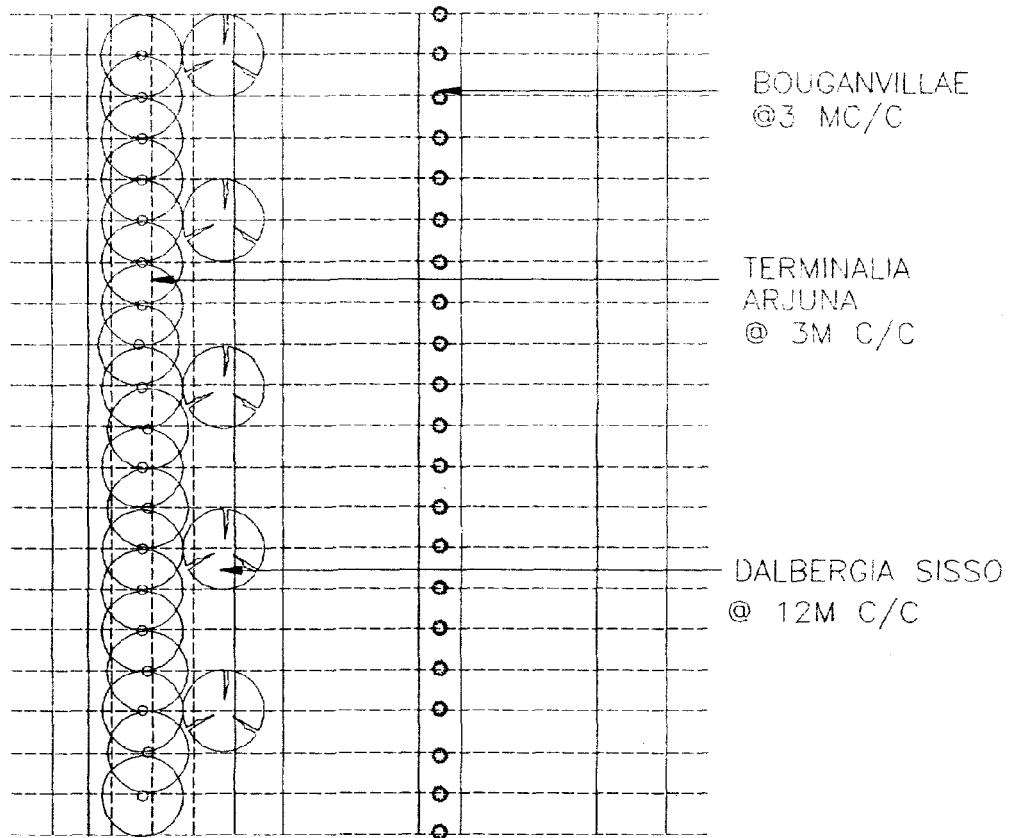
North	Beyond Daylight Line	Species	Spacing (@m c/c)	No. of Trees	No. of shrubs	Turfed area (m2)
	1st row	Tamarindus indica	12	33		
	2nd row	Gravillea robusta	3	133		
South	Beyond Daylight Line					
Median (1.5m)	Median					
	Grass					600
Total section						
	Total	Tamarindus indica		33		
	Total	Gravillea robusta		133		
Total	Trees			167		
	Grass					600

Appendix 8

Landscape Drawings and Tree Plantation Table for Package V-B



SECTION IIA
RURAL



PLAN IIA

PKG:VB, CH: 240-242 RIGHT SIDE WIDENING ROAD LANDSCAPE SECTION: 240-242	RURAL SECTION Average ROW available =45 Space for plantation =0-13.05m on left side
---	---


LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL ANCHOR TREES
	MEDIUM SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
 INDEPENDENT ENVIRONMENTAL REVIEW

Scale
 NTS

National Highways Authority Of India
 1, Rashtrapati Bhawan
 Mahatma Road
 New Delhi - 110011




Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
 TCR/16

Leo Associates South Asia Pvt. Ltd.
 A-220, New Friends Colony,
 New Delhi - 110029
 Phone - 6622604, 6622605



LANDSCAPE PLAN FOR PACKAGE: VB, TCS-2a (Rural)

Landscape Section: 240-320

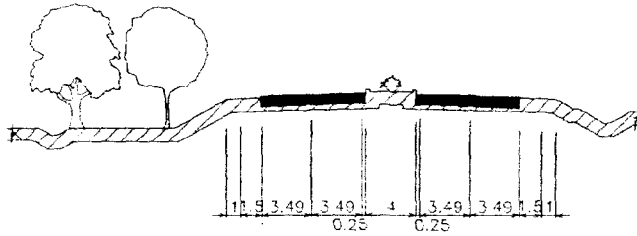
Design Chainage for TCS:240-242

Length (m): 2000

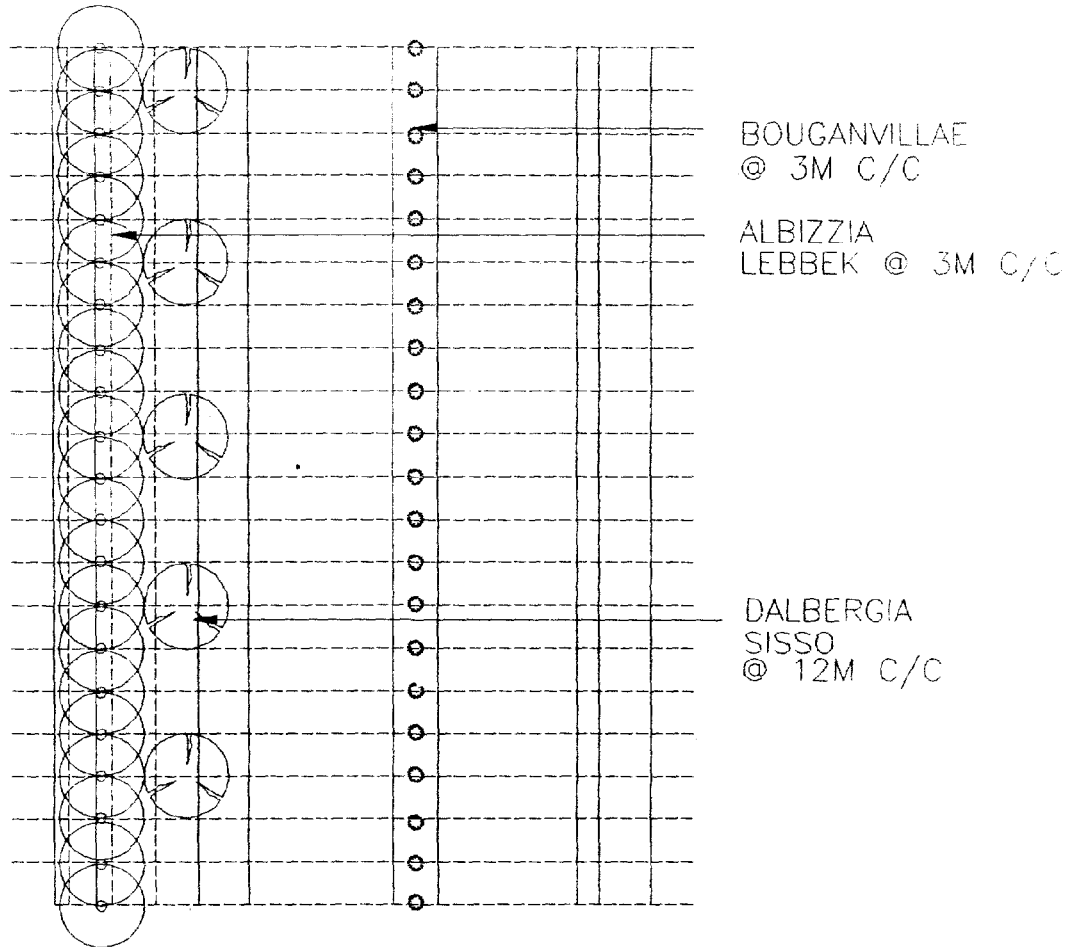
Average ROW available:45m

Space for Plantation: 0-13.05m Left

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Dalbergia sisso	12	167		
	2nd row	Terminalia arjuna	3	667		
South	Beyond Daylight Line					
Median (4m)	Median					
	1st row (N)	Bouganvillae	3		267	
Total Section						
	Total	Terminalia arjuna		667		
	Total	Dalbergia sisso		167		
Total	Trees			833		
	Total	Bouganvillae			267	
Total	Shrubs				267	



SECTION IIB
RURAL



PLAN IIB

PKG:VB, CH: 242-245.85, 246.1-246.3, 246.7-246.8, 248.1-249.2
RIGHT SIDE WIDENING
ROAD LANDSCAPE SECTION: 240-260

RURAL SECTION
Average ROW available= 42m
Space for plantation =0-10m on left side

LEGEND-

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Eastern Avenue
Meharaj Road
New Delhi - 110002

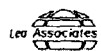


Notes-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCB-1b

Lee Associates South Asia Pvt. Ltd.
A-102, New Palasia Colony,
New Delhi - 110002.
Phone - 6222000, 6222000



LANDSCAPE PLAN FOR PACKAGE: VB, TCS-2b (Rural)

Landscape Section: 240-320

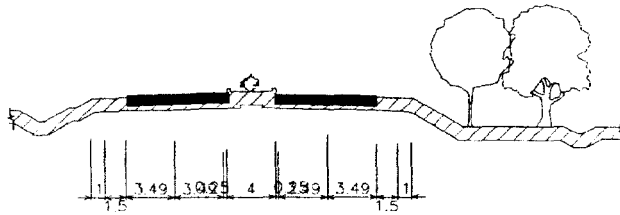
Design Chainage for TCS: 242-245.85, 246.1-246.3, 246.7-246.8, 248.1-249.2

Length (m): 5200

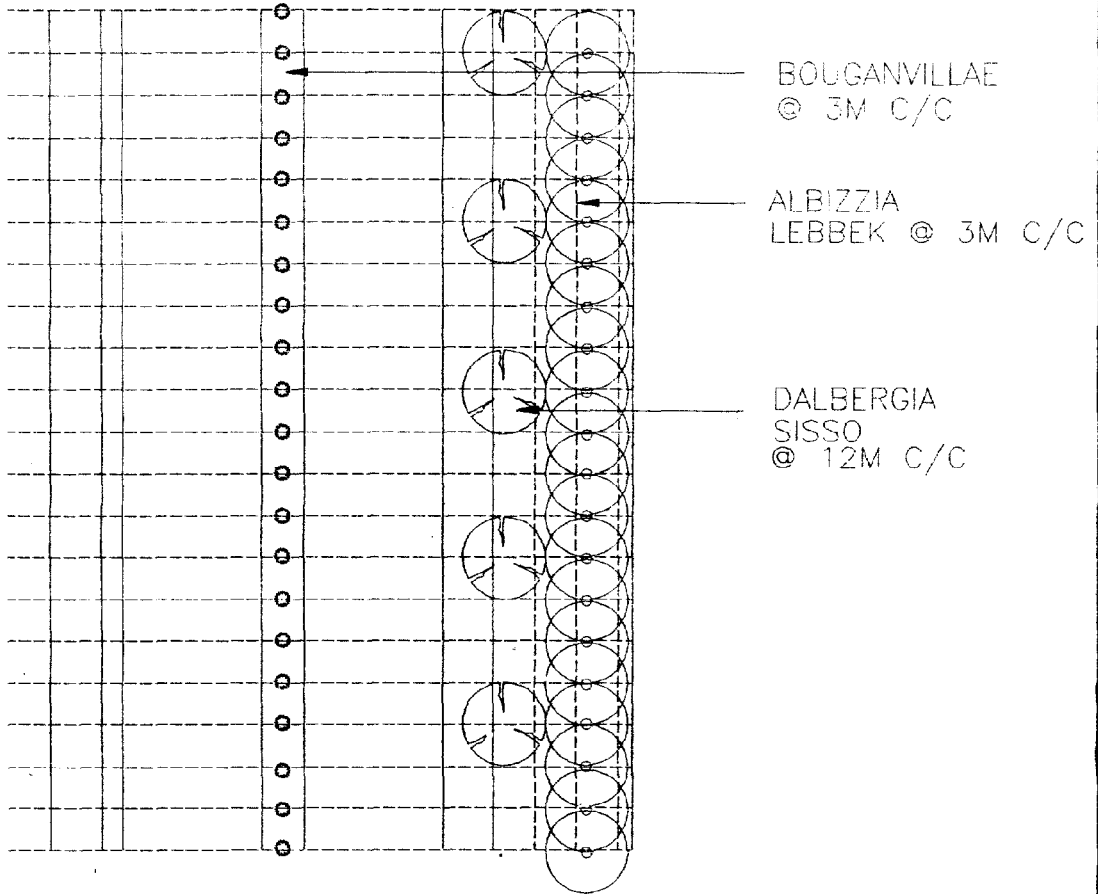
Average ROW available: 42m

Space for Plantation: 0-10m Right

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Dalbergia sisso	12	433		
	2nd row	Albizzia labbek	3	1733		
South	Beyond Daylight Line					
Median (4m)	Median					
	1st row	Bouganvillae	3		1733	
Total Section						
	Total	Dalbergia sisso		433		
	Total	Albizzia labbek		1733		
Total	Trees			2167		
	Total	Bouganvillae			1733	
Total	Shrubs				1733	



SECTION IIC
RURAL



PLAN IIC

PKG.VB, CH: 245.8-246.1, 246.3-246.7, 246.8-248.1, 280-286.3
LEFT SIDE WIDENING
ROAD LANDSCAPE SECTION: 240-320

RURAL SECTION
Average ROW available =42
Space for plantation =0-10m on right side

LEGEND:-

- SHADE/ORNAMENTAL TREES
- TALL/CONICAL AVENUE TREES
- MEDIUM SHRUBS
- GRASS TURFING

Project

GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale

NTS

National Highways Authority Of India

1, Eastern Avenue
Minister's Office
New Delhi - 110001



Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.

TCS-11C

Leo Associates South Asia Pvt. Ltd.

A-228, Near Friends Colony,
New Delhi - 110001
Phone - 6223401, 6223500



LANDSCAPE PLAN FOR PACKAGE: VB, TCS-2c (Rural)

Landscape Section: 240-320

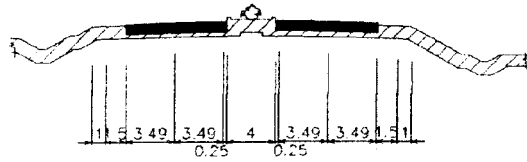
Design Chainage for TCS: 245.85-246.1, 246.3-246.7, 246.8-248.1, 280-286.3

Length (m): 8300

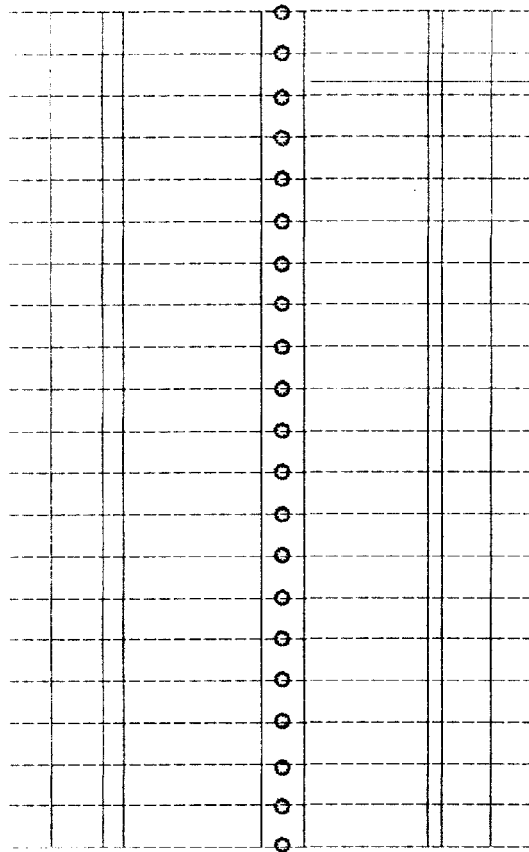
Average ROW available: 42m

Space for Plantation: 0-10m Right

North	Beyond Daylight Line	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
South	Beyond Daylight Line					
	1st row	Dalbergia sisso	12	692		
	2nd row	Albizzia labbek	3	2767		
Median (4m)	Median					
	1st row	Bouganvillae	3		2767	
Total Section						
	Total	Dalbergia sisso		692		
	Total	Albizzia labbek		2767		
Total	Trees			3458		
	Total	Bouganvillae			2767	
Total	Shrubs				2767	



SECTION IID, IIE
RURAL



BOUGANVILLAE
@ 3M C/C

PLAN IID, IIE

PKG:VB, CH: 249.4-260, 318-320.5
286.3-292, 292.6-300.8, 301.5-307.5,
308.5-318, 260-263.9, 265.5-266.7, 267.5-280
ROAD LANDSCAPE SECTION: 240-320
At ch: 274.675-274.925 & 276.475-276.625 *Cassia alata*
@ 1.5mc/c on north for noise mitigation

RURAL SECTION
Average ROW available =32M
Space for plantation =0m on each side

LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIAN SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Connaught Avenue
Ministerial Block
New Delhi - 110001.



Notes:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCB-M

Lee Associates South Asia Pvt. Ltd.
A-228, New Pioneer Colony,
New Delhi - 110001.
Phone - 6222001, 6222002



LANDSCAPE PLAN FOR PACKAGE: VB, TCS-2d & 2E(Rural)

Landscape Section: 240-320

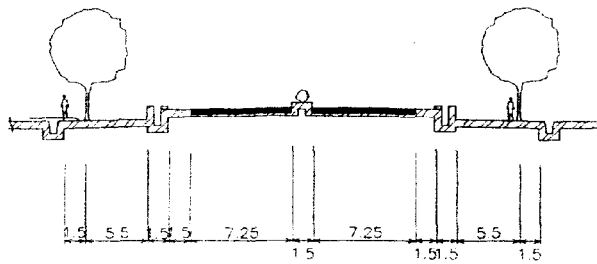
Design Chainage for TCS: 249.4-260, 318-320.5, 286.3-292, 292.6-300.8, 301.5-307.5, 308.5-318, 260-263.9, 265.5-266.7, 267.5-280

Length (m): 60100

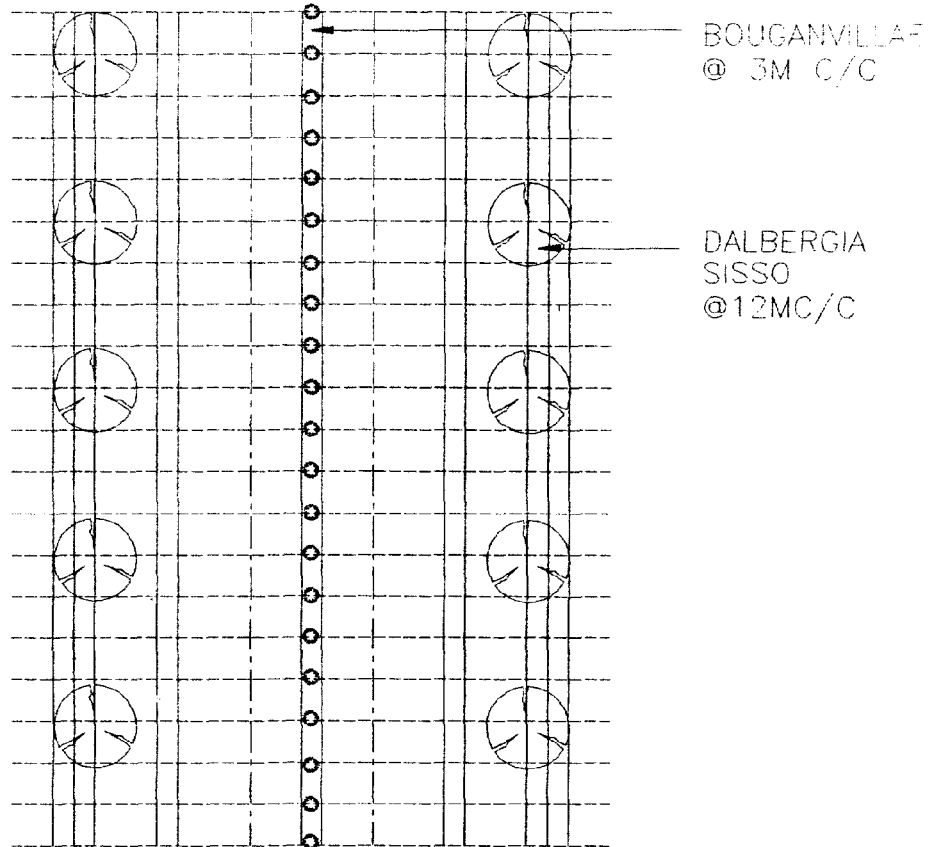
Average ROW available:32m

Space for Plantation: None

North	Noise Mitigation	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1 row (274.675-274.925 & 276.475-276.625	Cassia alata	1.5		333	
South	Beyond Daylight Line					
Median (4m)	Median					
	1st row (M)	Bouganvillae	3		12020	
Total Section						
Total	Trees			0		
	Total	Bouganvillae			12020	
	Total	Cassia alata			333	
Total	Shrubs				12353	



SECTION IV
SEMI URBAN



PLAN IV

PKG:VB, CH: 263.9-265.5, 266.7-267.5, 292-292.6,
300.8-301.5, 307.5-308.7
ROAD LANDSCAPE SECTION: 240-320
At ch: 290.775-291.025 in the inner row Cassia data
(tall shrub) to be planted @ 1.5mc/c for noise mitigation

SEMI-URBAN SECTION
Average ROW available =35
Space for plantation =0m on each side

LEGEND:-

	SHADE/ORNAMENTAL TREES
	TALL/CONICAL AVENUE TREES
	MEDIUM SHRUBS
	GRASS TURFING

Project
GRAND TRUNK ROAD IMPROVEMENT PROJECT
INDEPENDENT ENVIRONMENTAL REVIEW

Scale
NTS

National Highways Authority Of India
1, Eastern Avenue
Minister Road
New Delhi - 110002



Note:-

- 1) No tree is to be planted within 2.5m of an existing tree.
- 2) Alternate inner and outer rows of trees are to be repeated where ever extra space is available, or deleted wherever less space is available, unless otherwise specified.

Fig. No.
TCB-IV

Leo Associates South Asia Pvt. Ltd.
A-225, New Pilani Colony,
New Delhi - 110028
Phone - 6222991, 6222992



LANDSCAPE PLAN FOR PACKAGE: VB, TCS-4 (Semi-Urban)

Landscape Section: 240-320

Design Chainage for TCS:263.9-265.5, 266.7-267.5, 292-292.6, 300.8-301.5, 307.5-308.7

Length (m): 4900

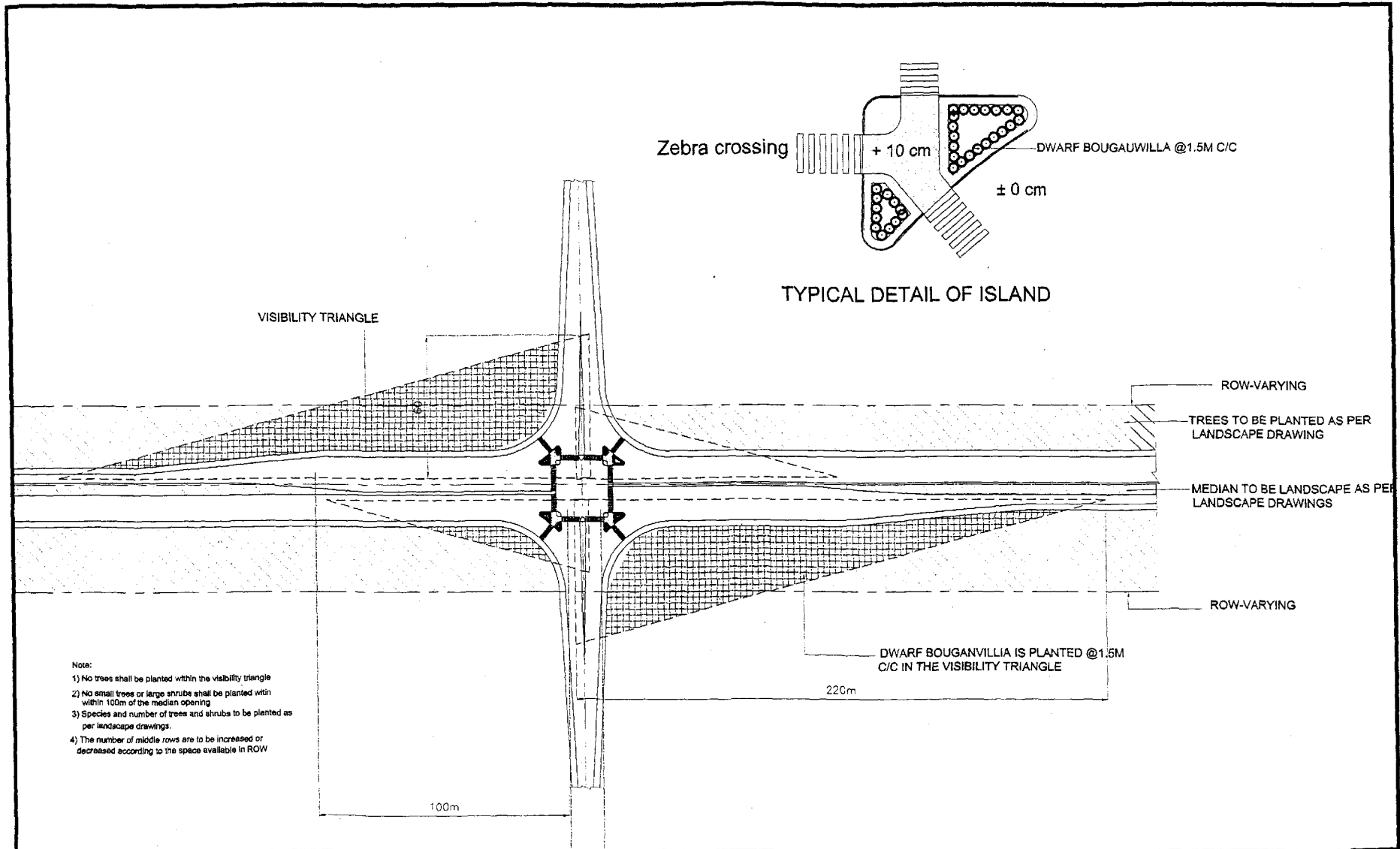
Average ROW available:35m

Space for Plantation: None

North	Service Lane	Species	Spacing (@ m c/c)	No. of trees	No. of shrubs	Turfed area (m2)
	1st row	Dalbergia sisso	12	408		
	2nd row(290.775-291.025)	Cassia alata	1.5		167	
South	Service Lane					
	1st row	Dalbergia sisso	12	408		
Median (1.5m)	Median					
	1st row (M)	Bouganvillae	1.5		3267	
Total Section						
	Total	Dalbergia sisso		817		
Total	Trees			817		
	Total	Cassia alata			167	
	Total	Bouganvillae			3267	
Total	Shrubs				3433	

Appendix 9

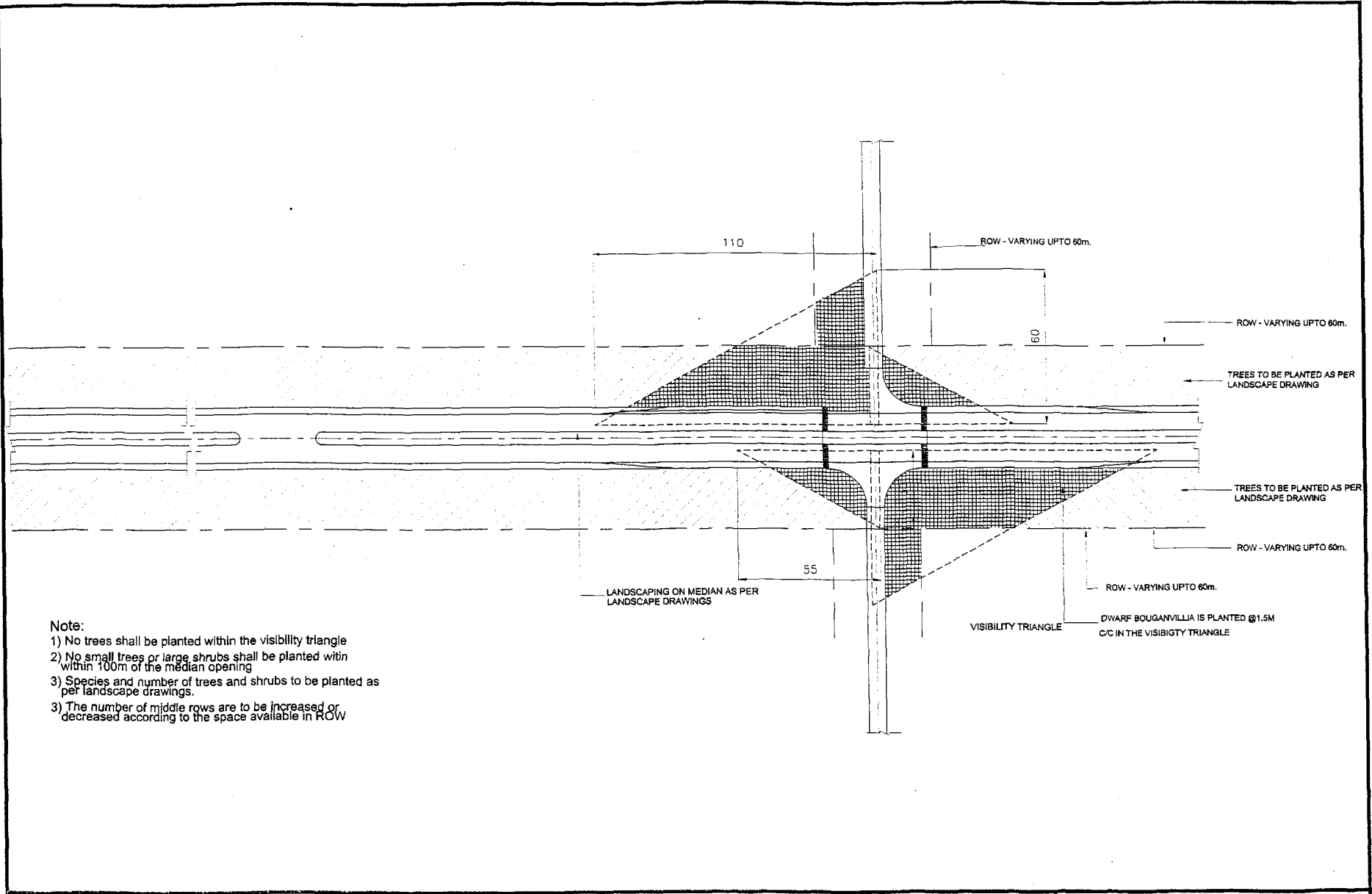
Typical Landscape Drawings for Enhancement of Junctions



- Notes:
- 1) No trees shall be planted within the visibility triangle
 - 2) No small trees or large shrubs shall be planted within 100m of the median opening
 - 3) Species and number of trees and shrubs to be planted as per landscape drawings
 - 4) The number of middle rows are to be increased or decreased according to the space available in ROW

NOTES : 1) FOLLOW WRITTEN DIMENSIONS ONLY 2) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED. 3) SITE SPECIFIC CHANGES IF ANY, TO BE MADE ONLY ON APPROVAL OF SUPERVISION CONSULTANT	Drawing No:	1	DRAWN:		PROJECT GRAND TRUNK ROAD IMPROVEMENT PROJECT INDEPENDENT ENVIRONMENTAL REVIEW	National Highways Authority Of India 1, Eastern Avenue Mahatma Bhgh New Delhi - 110065.
	CORRIDOR	NH2	CHECKED:			
	SCALE	NTS	DESIGNED:		TITLE JUNCTION PLANTATION CROSS JUNCTION	Lea Associates South Asia Pvt. Ltd. A-220, New Friends Colony, New Delhi - 110085. Phone - 6822908, 6822909
	CAD FILE:	JUNC-A	APPROVED:			

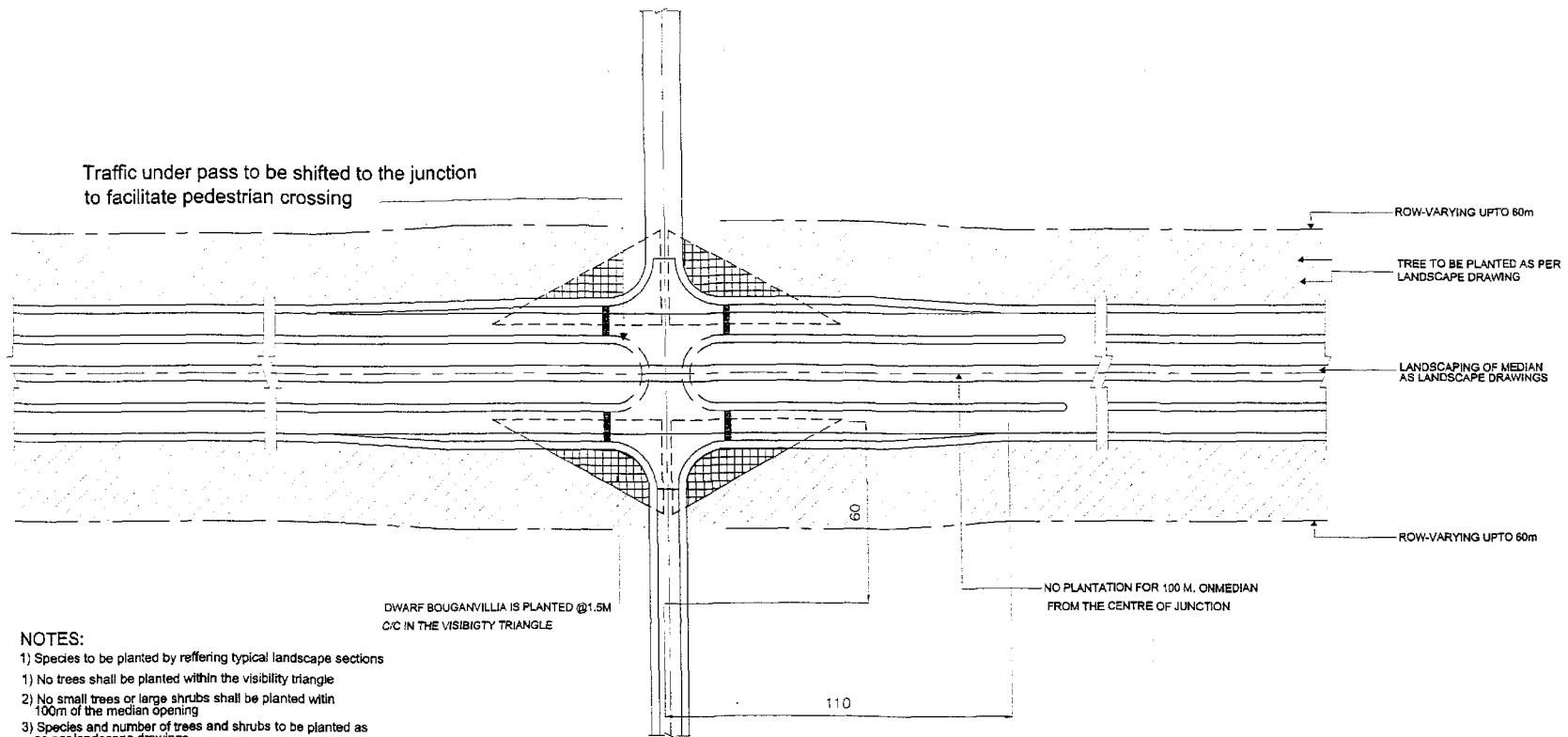




Note:

- 1) No trees shall be planted within the visibility triangle
- 2) No small trees or large shrubs shall be planted within 100m of the median opening
- 3) Species and number of trees and shrubs to be planted as per landscape drawings.
- 3) The number of middle rows are to be increased or decreased according to the space available in ROW

NOTES : 1) FOLLOW WRITTEN DIMENSIONS ONLY 2) ALL DIMENSIONS IN MM 3) ANY CHANGES TO BE MADE TO BE APPROVED BY THE SUPERVISION CONSULTANT	DRG NO.	2	DRAWN:		PROJECT GRAND TRUNK ROAD IMPROVEMENT PROJECT INDEPENDENT ENVIRONMENTAL REVIEW	National Highways Authority Of India 1, Eastern Avenue Mahatma Bhagh New Delhi - 110065.
	CORRIDOR:	NH2	CHECKED:			
	SCALE	NTS	DESIGNED:			
	CAD FILE	JUNC-B	APPROVED:			
					TITLE JUNCTION PLANTATION CROSS JUNCTION WITH MEDIAN BREAK	Lea Associates South Asia Pvt. Ltd. A-220, New Friends Colony, New Delhi - 110065. Phone - 8822908, 8822909



NOTES:

- 1) Species to be planted by referring typical landscape sections
- 1) No trees shall be planted within the visibility triangle
- 2) No small trees or large shrubs shall be planted within 100m of the median opening
- 3) Species and number of trees and shrubs to be planted as per landscape drawings.
- 4) The number of middle rows are to be increased or decreased according to the space available in ROW.
- 5) A minimum of 6m distance.

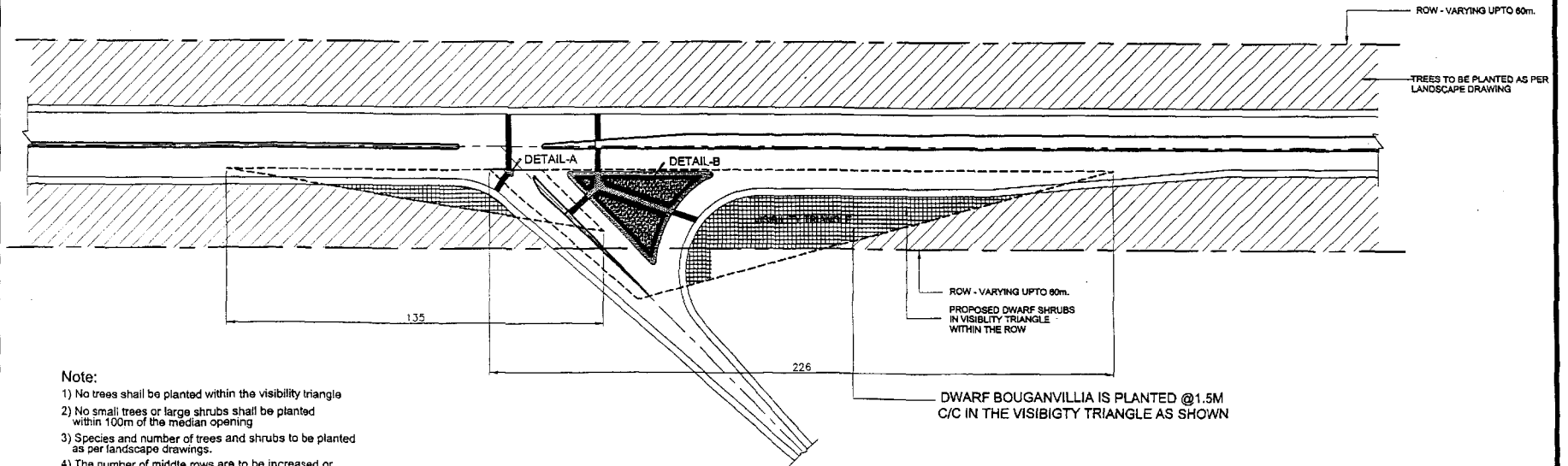
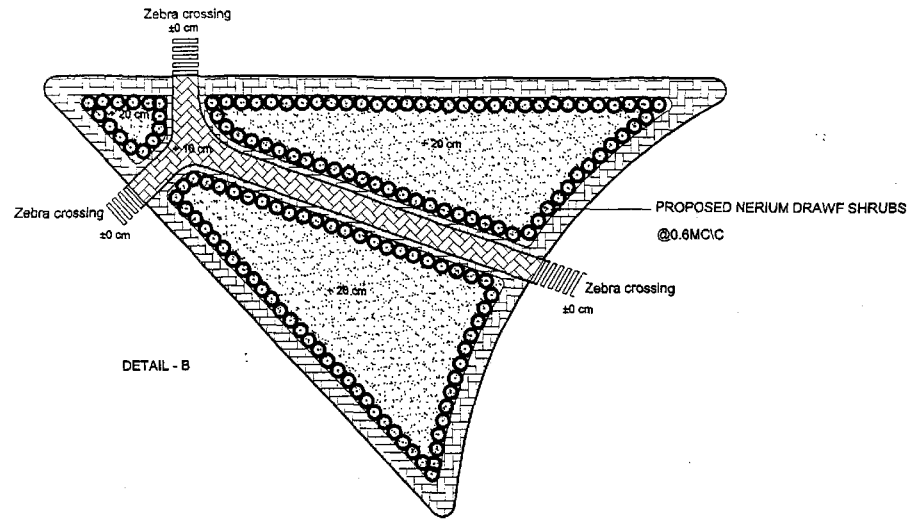
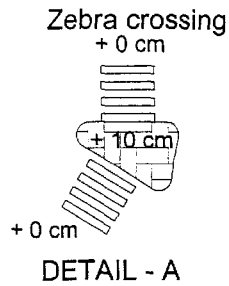
NOTES :

- 1) FOLLOW WRITTEN DIMENSIONS ONLY
- 2) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.
- 3) SITE SPECIFIC CHANGES IF ANY, TO BE MADE ONLY ON APPROVAL OF SUPERVISION CONSULTANT

SCALE	NTS	DRAWN:	
CORRIDOR	NH2	CHECKED:	
DRW. NO.	3	DESIGNED:	
CAD FILE:	JUNG-C	APPROVED:	

PROJECT	GRAND TRUNK ROAD IMPROVEMENT PROJECT INDEPENDENT ENVIRONMENTAL REVIEW
TITLE	DESIGN FOR JUNCTION PLANTATION CROSS JUNCTION WITH VEHICLE UNDERPASS

National Highways Authority Of India 1, Eastern Avenue Maharajpur 84001 New Delhi - 110065.	
Lea Associates South Asia Pvt. Ltd. A-220, New Friends Colony, New Delhi - 110065. Phone - 6522908, 6822909	



Note:

- 1) No trees shall be planted within the visibility triangle
- 2) No small trees or large shrubs shall be planted within 100m of the median opening
- 3) Species and number of trees and shrubs to be planted as per landscape drawings.
- 4) The number of middle rows are to be increased or decreased according to the space available in ROW

NOTES :

- 1) FOLLOW WRITTEN DIMENSIONS ONLY
- 2) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.
- 3) SITE SPECIFIC CHANGES IF ANY, TO BE MADE ONLY ON APPROVAL OF SUPERVISION CONSULTANT

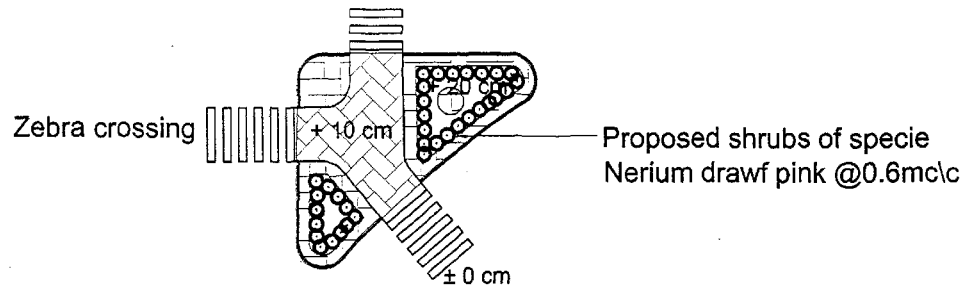
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CORRIDOR:	NH2	CHECKED:	
DRWG. NO.	4	DESIGNED:	
CAD FILE:	JUNG-D	APPROVED:	

PROJECT	GRAND TRUNK ROAD IMPROVEMENT PROJECT INDEPENDENT ENVIRONMENTAL REVIEW
TITLE	JUNCTION PLANTATION Y- JUNCTION LANDSCAPING

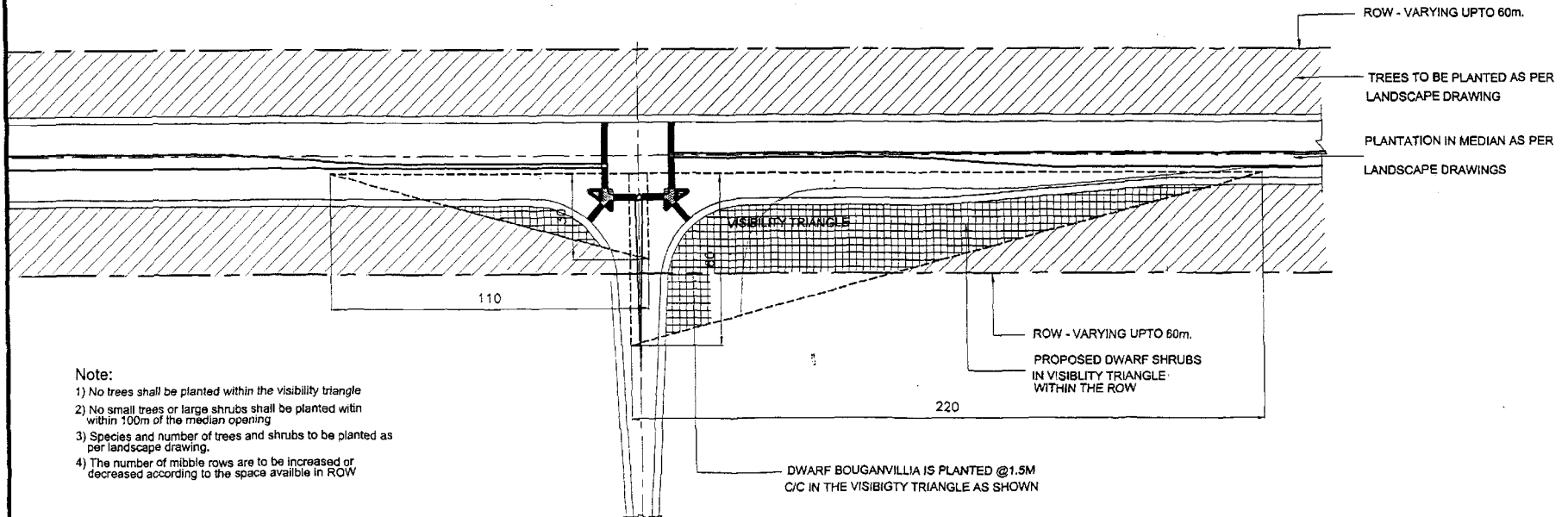
National Highways Authority Of India
1, Eashwari Avenue
Maharajni Bagh
New Delhi - 110065.

Lea Associates South Asia Pvt. Ltd.
A-220, New Friends Colony,
New Delhi - 110065.
Phone - 8522956, 9522909





TYPICAL DETAIL OF ISLAND



Note:

- 1) No trees shall be planted within the visibility triangle
- 2) No small trees or large shrubs shall be planted within 100m of the median opening
- 3) Species and number of trees and shrubs to be planted as per landscape drawing.
- 4) The number of middle rows are to be increased or decreased according to the space available in ROW

NOTES :

- 1) FOLLOW WRITTEN DIMENSIONS ONLY
- 2) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.
- 3) SITE SPECIFIC CHANGES IF ANY, TO BE MADE ONLY ON APPROVAL OF SUPERVISION CONSULTANT

SCALE:	NTS	DRAWN:	
CORRIDOR:	NH2	CHECKED:	
DRWG. NO.	5/5	DESIGNED:	
CAD FILE:	JUNCE	APPROVED:	

PROJECT	GRAND TRUNK ROAD IMPROVEMENT PROJECT INDEPENDENT ENVIRONMENTAL REVIEW
TITLE	JUNCTION PLANTATION TYPICAL T- JUNCTION

National Highways Authority Of India
1, Eastern Avenue
Mahatma Bhag
New Delhi - 110065.

Lea Associates South Asia Pvt. Ltd.
A-220, New Friends Colony,
New Delhi - 110065.
Phone - 9822908, 9822909



ANNEXURE: 10

SPECIFICATIONS FOR HORTICULTURAL AND LANDSCAPING WORKS

1.1. GENERAL

1.1.1. SCOPE

Contractor to furnish all materials, labour and related items necessary to complete the work indicated on drawing and specified herein.

1.2. MATERIALS

1.2.1. PLANT MATERIALS

Plant Materials shall be well formed and shaped true to type, and free from disease, insects and defects such as knots, sun-scaled, windburn, injuries, abrasion or disfigurement.

All plant materials shall be healthy, sound, vigorous, free from plant diseases, insect's pests, of their eggs, and shall have healthy, well-developed root systems. All plants shall be hardy under climatic conditions similar to those in the locality of the project. Plants supplied shall conform to the names listed on both the plan and the plant list. No plant material will be accepted if branches are damaged or broken. All material must be protected from the sun and weather until planted.

Any nursery stock shall have been inspected and approved by the Environmental Specialist of the Engineer.

All plants shall conform to these requirements specified in the plant list. Except that plants larger than specified may be used if approved, but use of such plants shall not increase the contract price. If the use of the larger plant is approved, the spread of roots or ball of earth shall be increased in proportion to the size of plant.

Deliver plants with legible identification labels.

1.2.2. TOP SOIL (GOOD EARTH)

Top soil or good earth shall be a friable loam, typical of cultivated top soils of the locality containing at least 2% of decayed organic matter (humus). It shall be taken from a well-drained arable site. It shall be free of subsoil, stones, earth skids, sticks, roots or any other objectionable extraneous matter or debris. It shall contain no toxic material. No topsoil shall be delivered in a muddy condition. It shall have pH value ranging between 6 to 8.5.

1.2.3. FERTILISER

Dry okhla sludge can be used. Measurement of sludge shall be in stacks, with 8% reduction for payment. It shall be free from extraneous matter, harmful bacteria insects or chemicals. (Subjected to safety norms).

1.2.4. ROOT SYSTEM

The root system shall be conducive to successful transplantation. While necessary, the root-ball shall be preserved by support with Hessaian or other suitable material. On soils where retention of a good ball is not possible, the roots should be suitably protected in some other way, which should cause any damage to roots.

1.2.5. CONDITION

Trees and shrubs shall be substantially free from pests and diseases, and shall and shall be materially undamaged. Torn or lacerated roots shall be pruned before dispatch. No roots shall be subjected to adverse conditions such as prolonged exposure to drying winds or subjection to water lodging, between lifting and delivery.

1.2.6. SUPPLY AND SUBSTITUTION

Upon submission of evidence that certain materials including plant materials are not available at time of contract, the contractor shall be permitted to substitute other and plants, with an equitable adjustment of price. All substitutions shall be of the nearest equivalent species and variety to the original specified and shall be subjected to the approval of the Landscape Architect.

1.2.7. PACKAGING

Packaging shall be adequate for the protection of the plants and such as to avoid heating or drying out.

1.2.8. MARKING

Each specimen of tree and shrub, or each bundle, shall be legibly labeled with the following particulars:

Its name.

The name of the supplier, unless otherwise agreed.

The date of dispatch from the nursery.

1.3. TREE PLANTING

1.3.1. PLANTS AND SHRUBS

Trees should be supplied with adequate protection as approved. After delivery, if planting is not to be carried out immediately, balled plants should be placed check to check and the ball covered

with sand to prevent drying out. Bare rooted plants can be heeled in by placing the roots in prepared trench and covering them with earth which should be watered into avoid air pockets round the roots. Trees and shrubs shall be planted as shown in architectural drawings and with approval of site supervision.

1.3.2. DIGGING OF PITS

Tree pits shall be dug a minimum of three weeks prior to backfilling. The pits shall be 120cms in diameter and 120cms deep. While digging the pits, the topsoil upto a depth of 30cms may be kept aside, if found good (depending upon site conditions), and mixed with the rest of the soil.

If the side of the below, it shall be replaced with the soil mixture as specified further herein. If the soil is normal it shall be mixed with manure; river sand shall be added to the soil if it is heavy.

The bottom of the pit shall be forked to break up the subsoil.

1.3.3. BACK FILLING

The soil back filled watered through end gently pressed down, a day previous to planting, to make sure that it may not further settle down after planting. The soil shall be pressed down firmly by treading it down, leaving a shallow depression all round for watering.

1.3.4. PLANTING

No tree pits shall be dug until final tree position has been pegged out for approval.

Care shall be taken that the plant sapling when planted is not be buried deeper than in the nursery, or in the pot.

Planting should not be carried out in waterlogged soil.

Plant trees at the original soil depth; soil marks on the stem is an indication of this and should be maintained on the finished level, allowing for setting of the soil after planting. All plastic and other imperishable containers should be removed before planting. Any broken or damage roots should be cut back to sound growth.

The bottom of the planting pit should be covered with 50mm to 75mm of soil. Bare roots should be spread evenly in the planting pit; and small mound in the center of the pits on which the roots are placed will aid on even spread. Soil should be placed around the roots, gently shaking the tree to allow the soil particles to shift into the root system to ensure close contact with all roots and prevent air pockets. Back fill soil should be firmed as filling proceeds, layer by layer, care being taken to avoid damaging the roots, as follows:

200gms of 13% Lindane dust (Lindane dust is not allowed to be used, chlorocyriphos dust) shall be sprinkled on walls of pit, and initially pit shall be filled to 200 depth with earth mixed with 50gms of Lindane dust or chlorocyriphos dust. The balance earth shall be filled in a mixture of 1:3 (1 part sludge to 3 part earth by volume) m and 50gms potash, (Mop) 50gms of Super Phosphate and 1Kg. Neem oil cake. Aldrin or equivalent shall be applied every 15 days in a mixture of 5ml in 5 litres of water.

1.3.5. TREE PLANTING ALONG THE HIGHWAYS

The technical specification for planting along the Highways are as follows:

Shade trees [first row]

Distance from edge of shoulder -	6m
Spacing between plant to plant -	12m
Size of the pits	- Normal site – 60x60x60cm
For Alkaline soil [Usar] -	1.25m Deep x 0.35 cm dia. [by augar]
Water logged areas	- mounds with 60 cm top and 100 cm base

Height varying depending on the water level

Species recommended	- as proposed
No of plants per km	- 84(max)
Activity and time schedule	- As proposed
Height of the plant	- Not less than 2 m

2nd and subsequent rows:

Distance from edge of shoulder of 2 nd row	- As proposed
Subsequent rows	- Minimum 4.5m from the 1 st row
Spacing between plant to plant	- As proposed
Size of the pits:	
Normal site	- 45 x 45 x 45 cm
Alkaline soil	- 1.25 m deep x 0.35 cm dia
Water logged areas: shade plants	- mounds with specification as given for

Species recommended	-	As proposed
No. of plants per km	-	333 [maximum for each row]
Height of the plants	-	more than 1 m

1.3.6. STAKING

Newly planted trees must be held firmly although not rigidly by staking to prevent a pocket forming around the stem and newly formed fibrous roots being broken by mechanical pulling as the tree rocks.

Methods:

The main methods of staking shall be:

- (A) A single vertical stake, 900mm longer than the clear stem of the tree, driven 600mm to 900mm into the soil.
- (B) Two stakes as above driven firmly on either side of the tree with a cross bar to which the stem is attached. Suitable for bare-rooted or Ball material.
- (C) A single stake driven in at an angle at 45 degrees and leaning towards the prevailing wind, the stem just below the lowest branch being attached to the stake. Suitable for small bare-rooted or Ball material
- (D) For plant material 3m to 4.5m high with a single stem a three-wire adjustable guy system may be used in exposed situations.

The end of stake should be pointed and the lower 1m to 1.2m should be coated with a non-injurious wood preservative allowing at least 150mm above ground level.

Tying

Each tree should be firmly secured to the stake so as to prevent excessive movement. Abrasion must be avoided by using a buffer, rubber or Hessian, between the tree and stake. The tree should be secured at a point just below its lowest branch, and also just above ground level; normally two ties should be used for tree. These should be adjusted or replaced to allow for growth.

1.3.7. WATERING

The Landscape Contractor should allow for the adequate watering in of all newly planted trees and shrubs immediately after planting and he shall during the following growing season, keep the plant material well watered.

1.3.8. FERTILISING

Fertilising shall be carried out by application in rotation of the following fertilisers, every 15 days from the beginning of the monsoon till the end of winter:

1. Sludge or organic well-rotted dry farm yard manure: 0.05 cum or tussle.
2. Urea 25gm.
3. Ammonium sulphate 25gm.
4. Potassium sulphate 25gm.

All shrubs, which are supplied pot grown, shall be well soaked prior to planting.

Watering in and subsequent frequent watering of summer planted container- grown plants is essential.

1.4. SHRUB PLANTING IN PLANTER BEDS

All areas to be planted with shrubs shall be excavated, trenched to a depth of 750mm, refilling the excavated earth after breaking clods and mixing with sludge in ratio 8:1 (8 parts of stacked volume of earth after reduction by 20%: 1 part of stacked volume of sludge after reduction by 8%.)

Tall shrubs may need staking, which shall be provided if approved by the Contracting Officer, depending upon the conditions of individual plant specimen.

For planting shrubs and ground cover shrubs in planters, good earth shall be mixed with sludge in the proportion as above and filled in planters.

Positions of planters shall be marked out in accordance with the architectural Drawing. When shrubs are set out, precautions should be taken to prevent roots drying. Planting holes 40cm dia. And 40cm deep should be excavated for longer shrubs. Polythene and other non-perishable containers should be removed and any badly damaged roots carefully pruned. The shrubs should then be set in holes so that the soil level, after settlement, will be original soil mark on the stem of the shrub. The hole should be back filled to half of its depth and firmed by treading. The remainder of the soil can then be returned and again firmed by treading.

1.5. GRASSING

The specifications for grassing/turfing are to be referred from 'specifications for Roads and Bridge works' by MOST. Section 300, Clauses 307.1, 307.2 307.3.

1.6. MAINTENANCE

1.6.1. CULTIVATING

The Landscape Contractor shall maintain all planted areas within Landscape contract boundaries for one year until the area is handed over in whole or in phases. Maintenance shall include replacement of dead plants, watering, weeding, cultivating, control of insects, fungus and other diseases by means of spraying with an approved insecticide or fungicide, pruning, and other horticulture operations necessary for proper growth of the plants and for keeping the landscape sub-contract area neat in appearance.

1.6.2. PRUNING AND REPAIRS

Upon completion of planting work of the landscape sub-contract all trees should be pruned and all injuries repaired where necessary. The amount of pruning shall be limited to the necessary to remove dead or injured twigs and branches and to compensate for the loss of roots and the result of the transplanting operations. Pruning shall be done in such a manner as not to change the natural habit or special shape of trees.

1.6.3. TREE GUARDS

Where the tree guards are necessary, care should be taken to ensure that they do not impede natural movement or restrict growth. Two types of tree guards are proposed on the Grand Trunk circular iron tree guards and barbed wire fencing, the specifications for which one given below:

Circular Iron Tree Guard with Bars (Refer Figure 1)

The tree guard shall be 50 cm. in diameter.

The tree guards shall be formed of (i) 3 Nos. 25x25x3mm angle iron verticals 2.00m long excluding splayed outward at lower end upto an extent of 10 cms. (ii) 3 Nos. 25x25mm MS flat rings fixed as per design (iii) 15 Nos. 1.55 metres long 6mm dia bars. Each ring shall be in two parts in the ratio of 1:2 and their ends shall be turned in radially for a length of 4 cm at which they are bolted together with 8mm dia and 30mm long MS bolts and nuts.

The vertical angle irons shall be welded to rings along the circumference with electric plant 15 Nos. bars shall be welded to rings at equal spacing along the circumference of ring. The lower end of the angle iron verticals shall be splayed outwards upto an extent of 10cm. The lower end of the flat of lower ring shall be at a height of 45cm. and upper end of the flat of top ring shall be at the height of 2.00 metres. The middle ring shall be in the center of top and lower ring. The bars shall be welded to rings as shown in the drawing. The entire tree guard shall be given two coats of paint of approved brand and of required shade over a priming coat of ready mixed primer of approved brand. The design of the tree guard shall be as shown in the drawing.

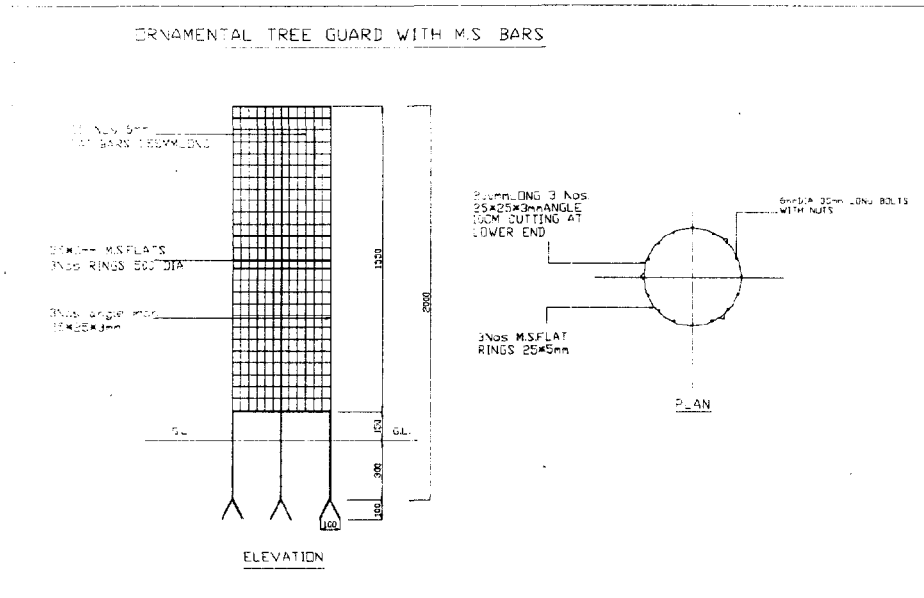


Figure-1. Circular Tree Guard

Barbed Wire Fencing with Angle Iron Posts

Materials: Barbed wire shall be as per IS-278. The angle shall be 40x40x6, free from rest, cracks and blowholes.

Spacing of Post & Streets: The spacing of post shall be 3.00m centre to centre, unless otherwise specified or as directed by engineers to dimensions, which shall be nearest to the 3m. Last but one end post's and corner post shall be strutted on both side and end post on one side only. Fixing of post & struts shall be as shown in drawing the angle iron must be split at bottom end.

Fixing Barbed Wire: The barbed wire shall be stretched and fixed in specified number of rows and two diagonals. The bottom row should be 14 cm above ground level and rest @12.5 cm centre to centre. The diagonal weir shall be stretched between adjacent posts from the top wire of one post to the bottom weir of 2nd post. The barbed wire shall be held by tearing the holes of 10mm dia in the post and tied with GI wire turn buckles and straining bolts shall be used at the end post.

1.6.4. NURSERY STACK

Planting should be carried out as soon as possible after reaching the site, Where planting must be necessity he delayed, care should be taken to project the plants form pilfering or damage from people animals. Plants with bare-roots should be heeled- in as soon as received or otherwise protected from drying out, and others set closely together and protected from the wind. If planting is to be delayed for more than a week, packaged plants should be unpacked, the bundles opened

up and each group of plants heeled in separately and clearly labeled. If for any reason the surface of the roots becomes dry the roots should be thoroughly soaked before planting.

1.6.5. COMPLETION

On completion, the ground shall be formed over and left tidy.

1.7. SPECIAL CONDITIONS AND PARTICULAR SPECIFICATONS

1. Landscape Architect mentioned herein shall mean _____, _____ and/or any person nominated by him.
2. Wherever applicable, work shall be done according to C.P.W.D. specifications, in vogue, at the time of invitation of tender.
3. Water shall be made available, near the tube well at one point. Contractors shall make their own arrangement for drawing water from there. Water charges at _____ of value of work done shall be deducted from the contractors Bills.
4. If electricity is required for the works, the same shall be made available at one point within the site of works, for which recovery @ Rs. _____ per Kwh. Shall be made from the contractors bill.
5. The work included in the schedule of Quantities include grassing as well as planting of trees and shrubs. 'Contractors' quoted rates shall include execution of these works at different levels and nothing extra shall be paid for any item, for working at these levels.
6. The Contractor (s) shall wt be entitled to any compensation for any loses suffered by him and/or revision in the rates originally quoted by him.
 - a. On account unforeseen delay in commencing the work, whatever the cause of such delays be.
 - b. On account of reduction in the scope of work.
 - c. On account of suspension of work, or abandon after award of work.
7. The Contractor shall provide all facilities to Landscape Architect / Project Engineer and / or his authorized representa5ves to make frequent inspection of their Nursery and ascertain the process / quality of various categories of trees/plants etc., grown by them.
8. Contractors' quote rate shall include the cost of transportation of tools and plants to and from the site. sales tax, excise duty, octroi, etc. It shall be clearly understood that no claim for any extra payment on account of sales tax, excised duty, octroi etc., shall be entertained alter the opening of the tender.
9. The safe custody and up-keep of various categories of plants brought to site is the sole responsibility of the contractor and he shall employ sufficient supervisory personnel to ensure the safety of these items.

10. The site of work may be handed over to the contractors for shall of work in phases, as soon as the same are available and the contractor in turn shall work in these areas forthwith. Nothing extra shall be payable for such phased execution of work.
11. While excavating / executing the work the contractors shall ensure that existing cables / pipe lines / structures / fittings are not damaged and if due to his negligence, these are damaged, the same shall be at his own cost with no extra cost to the clients.
12. The Contractor shall co-ordinate his work with other agencies employed by the Clients and ensure that the work of other agencies are not hampered in any way during the duration of contract.
13. The Contractor shall keep the site of works neat and clean during the execution of the work. Any debris found at or near the site of work shall be removed immediately as and when so required by the landscape Architect / Project Engineer.
14. On completion of the work, the site of work shall be thoroughly cleaned and all debris removed before the work is handed over satisfactorily.
15. The Contractors shall, without any additional charge to the clients, renew or replace any dead or defective plants/grass and shall fully maintain the whole landscape for a period of 12 months after the certified date of completion.
16. "General condition of contract and standard contract Forms of shall also form part of the contract.
17. Trees shall be of minimum length as specified in the schedule of quantities and shall be straight and symmetrical with a crown and having a persistent main stem. The size of crown shall be in good proportion to the height of the tree.
18. Small trees and shrubs shall be well formed with a crown typical of the species or variety.
19. GENERAL REQUIREMENTS OF PLANTS:
 - Plants shall be typical of their species and variety, well developed branches, and well foliated with fibrous root system. Plants shall be free from defects and injuries. Plants shall not be pruned before planting.
 - Plants shall be free from defects and injuries.
 - Plants shall not be pruned before planting.
 - Plants shall not be freshly dug and nursery grown.
 - Nursery grown plants shall have been at least once transplanted.
 - Bark shall be free from abrasion.
 - All trees, soon after planting, shall be properly supported with bamboo stocks to ensure their safety against winds or any other factor, which may affect it adversely.
20. PROTECTION OF "TREE TO BE PRESERVED"

The contractor shall be responsible for the protection of tops, trunks and roots of existing trees on site. Existing trees subject to the construction damage shall be boxed, fenced or otherwise protected before any work is started.

21. GENERAL REQUIREMENTS OF EARTH MANURE AND FERTILISERS

EARTH: Good earth shall be agricultural soil of loamy texture, free from kankar, morrum, shingles, rocks, stones, building rubbish and any other foreign matter. The earth shall be free from clods or lumps of sizes bigger than 50mm in any direction. It shall have pH ranging between 6.5 to 7.5.

MANURE: Manure shall be of well decayed organic matter obtained in dry state from the Municipal dump or other similar source approved by the Project Engineer. The manure shall be free from earth, stone or other extraneous matter. Manure shall be supplied, at site well screened.

FERTILISERS: If the soil tests indicate pH value not as per the above specification namely between 6.5 to 7.5, following measures need to be taken.

If pH exceeds 7.5, aluminium sulphate or equivalent fertilizer should be added at the rate of 1 kg per cubic metre to lower the pH by one full point.

If pH is below 6.5, add ground limestone or equivalent fertilizer at the rate of 1 kg per cubic metre to raise pH by one full point.

Appendix 11

Chainagewise List of Suitable Trees Identified for Transplantation

Summay of the Candidate trees

Sr No	Pacakge	No of Trees		Total
		North	South	Nos
1	IA	515	119	634
2	IB	585	142	727
3	IC	739	1173	1912
3	IVA	361	97	458
4	IVC	81	4	85
5	VB	42	217	259
	Total	2323	1752	4075

Note :

1. As pr our observation there is water logging around many trees.
2. These tress have not been marked though they are suitable for transplantation.

Concised Chianagewise List of Suitable Trees to be transplanted.					
Package	Suitable for	Chain age		Suitable for	Landmark / Remark
	Transplantation	kms		Transplantation	
	North			South	
1A	0	200	201	0	
	0	201	202	0	
	0	202	203	0	
	0	203	204	0	
	0	204	205	0	Bypass (Washland)
	0	205	206	0	CHHALESAR
	8	206	207	11	
	15	207	208	0	
	0	208	209	9	
	0	209	210	15	
	14	210	211	18	
	0	211	212	8	
	0	212	213	9	
	0	213	214	15	
	0	214	215	6	
	0	215	216	28	
	0	216	217	0	EKMADPUR
	0	217	218	0	
	0	218	219	0	
	0	219	220	0	
	0	220	221	0	TUNDLA
	0	221	222	0	
	0	222	223	0	
	10	223	224	0	
	21	224	225	0	
	19	225	226	0	
	38	226	227	0	
	0	227	228	0	
	0	228	229	0	
	0	229	230	0	
	42	230	231	0	
	29	231	232	0	
	0	232	233	0	Bypass
	0	233	234	0	RAJKATAL
	0	234	235	0	
	0	235	236	0	
	0	236	237	0	
	0	237	238	0	
	0	238	239	0	
	0	239	240	0	FIROZABAD
	0	240	241	0	
	0	241	242	0	
	0	242	243	0	
	0	243	244	0	
	48	244	245	0	
	80	245	246	0	
	29	246	247	0	
	19	247	248	0	
	43	248	249	0	
	13	249	250	0	

Concised Chianagewise List of Suitable Trees to be transplanted.					
Package	Suitable for	Chain age		Suitable for	Landmark / Remark
	Transplantation			Transplantation	
	North	kms		South	
	No Tree	250	251	0	
	No Tree	251	252	0	
	No Tree	252	253	0	
	No Tree	253	254	0	
	0	254	255	0	
	0	255	256	0	
	0	256	257	0	
	0	257	258	0	
	0	258	259	0	SHIKHOBAD
	0	259	260	0	
	0	260	261	0	
	30	261	262	0	
	15	262	263	0	
	0	263	264	0	
	42	264	265	0	
Total	515			119	

Concised Chianagewise List of Suitable Trees to be transplanted.					
Package	Suitable for	Chain age		Suitable for	Landmark / Remark
	Transplantation	kms		Transplantation	
	North			South	
1B	19	265	266	0	
	0	266	267	0	
	0	267	268	0	
	0	268	269	0	
	0	269	270	0	
	0	270	271	0	
	0	271	272	0	
	0	272	273	0	
	0	273	274	0	
	0	274	275	0	By Pass SIRSAGANJ
	0	275	276	0	
	0	276	277	0	
	0	277	278	0	
	0	278	279	0	
	0	279	280	0	
	0	280	281	0	
	0	281	282	0	
	15	282	283	0	
	0	283	284	0	Bypass
	0	284	285	0	UREKAND
	No Tree	285	286	0	
	15	286	287	0	
	37	287	288	0	
	30	288	289	0	
	25	289	290	0	
	40	290	291	0	
	70	291	292	0	
	94	292	293	0	
		293	294	0	
	45	294	295	0	
	No Tree	295	296	0	36 Trees above 3.5ft Dia
	0	296	297	0	
	0	297	298	0	
	33	298	299	0	
	36	299	300	0	
	16	300	301	0	
	0	301	302	0	JASWANT NAGAR
	0	302	303	0	
	0	303	304	0	
	0	304	305	0	
	0	305	306	0	
	0	306	307	0	
	0	307	308	0	
	35	308	309	0	Not Marked
	28	309	310	0	Not Marked
	17	310	311	0	Not Marked
	0	311	312	0	
	30	312	313	0	Not Marked
	0	313	314	0	
	0	314	315	0	

Concised Chianagewise List of Suitable Trees to be transplanted.					
Package	Suitable for	Chain age		Suitable for	Landmark / Remark
	Transplantation			Transplantation	
	North	kms		South	
	0	315	316	0	
	0	316	317	0	
	0	317	318	0	
	0	318	319	0	} ETAWAH
	0	319	320	0	
	0	320	321	0	
	0	321	322	0	
	0	322	323	0	
	0	323	324	0	
	0	324	325	0	
	0	325	326	0	
	0	326	327	0	} By pass EKDIL
	0	327	328	40	
	0	328	329	61	
	0	329	330	41	
Total	585			142	

Concised Chianagewise List of Suitable Trees to be transplanted.					
Package	Suitable for	Chain age		Suitable for	Landmark / Remark
	Transplantation	kms		Transplantation	
	North			South	
1C	0	330	331	28	
	0	331	332	0	
	0	332	333	15	
	0	333	334	49	
	0	334	335	No Trees	
	0	335	336	33	
	0	336	337	0	
	0	337	338	0	} By Pass BAKEWAR
	0	338	339	0	
	0	339	340	0	
	0	340	341	0	
	0	341	342	21	
	0	342	343	0	
	0	343	344	0	
	0	344	345	0	UJHAYANI
	0	345	346	0	} By Pass MAHEWA
	0	346	347	0	
	0	347	348	0	
	0	348	349	0	
	0	349	350	0	
	0	350	351	25	
	0	351	352	0	
	0	352	353	49	
	0	353	354	0	
	0	354	355	0	
	0	355	356	0	} By Pass
	0	356	357	0	
	0	357	358	0	AJITMAL
	0	358	359	0	
	0	359	360	39	Not Marked
	0	360	361	0	
	0	361	362	0	
	0	362	363	0	
	0	363	364	0	} By Pass VIKHEPUR
	0	364	365	0	
	0	365	366	0	
	0	366	367	0	
	0	367	368	33	Not Marked
	0	368	369	51	Not Marked
	0	369	370	48	Not Marked
	77	370	371	134	Not Marked
	70	371	372	72	Not Marked
	74	372	373	50	Not Marked
	28	373	374	82	Not Marked
	10	374	375	77	Not Marked
	75	375	376	25	Not Marked
	37	376	377	47	Not Marked
	20	377	378	15	Not Marked
	53	378	379	0	Not Marked
	No Tree	379	380	97	Not Marked AUREYYA

Concised Chianagewise List of Suitable Trees to be transplanted.					
Package	Suitable for	Chain age		Suitable for	Landmark / Remark
	Transplantation			Transplantation	
	North	kms		South	
	0	380	381	0	Not Marked
	35	381	382	6	6 Marked 35 Not Marked
	65	382	383	108	108 Marked
	21	383	384	0	
	79	384	385	44	44 Marked
	95	385	386	0	
	0	386	387	25	25 Marked
	0	387	388	0	
	0	388	389	0	
	0	389	390	0	
	0	390	391	0	
	0	391	392	0	
	0	392	393	0	
	0	393	394	0	
Total	739			1173	
Gr Total	1839			1434	3273

Concised Chainagewise List of Suitable Trees to be transplanted.					
Package	Suitable for	Chain age		Suitable for	Landmark / Remark
	Transplantation	Kms		Transplantation	
	North			South	
IV A	56	317	318	0	
	23	318	319	0	Water Logging
	0	319	1	0	Water Logging
	0	1	2	0	
	0	2	3	0	
	0	3	4	0	
	0	4	5	0	
	0	5	6	0	
	0	6	7	0	
	0	7	8	0	
	0	8	9	0	
	0	9	10	0	VRM -By Pass
	0	10	11	0	
	0	11	12	0	
	0	12	13	0	
	0	13	14	0	
	0	14	15	0	
	0	15	16	0	
	0	16	17	0	
	0	17	18	0	
	0	18	19	0	
	0	19	20	0	
	0	20	21	0	
	1	21	22	42	
	78	22	23	0	
	7	23	24	0	
	3	24	25	0	
	41	25	26	0	
	17	26	27	0	
	0	27	28	0	
	0	28	29	0	
	0	29	30	0	
	0	30	31	0	
	0	31	32	0	
	10	32	33	4	
	0	33	34	0	
	38	34	35	0	
	24	35	36	0	
	0	36	37	0	
	12	37	38	0	
	1	38	39	11	
	0	39	40	0	Sayyadraja
	0	40	41	0	Sayyadraja
	20	41	42	0	Not Marked
	0	42	43	0	
	0	43	44	0	Cheque post Naubatpur
	0	44	45	0	

Concised Chainagewise List of Suitable Trees to be transplanted.					
Package	Suitable for	Chain age		Suitable for	Landmark / Remark
	Transplantation			Transplantation	
	North	Kms		South	
	0	45	46	0	
	0	46	47	0	
	0	47	48	0	
	9	48	49	0	
	0	49	50	0	
	7	50	51	0	
	3	51	52	0	
	0	52	53	0	
	0	53	54	0	
	5	54	55	0	
	2	55	56	0	
	0	56	57	0	
	0	57	58	0	
	0	58	59	0	
	0	59	60	0	
	4	60	61	0	
	0	61	62	0	
	0	62	63	0	
	0	63	64	20	Trees not Marked
	0	64	65	20	Trees not Marked
Total	361			97	458

Concised Chainagewise List of Suitable Trees to be transplanted.						
Package	Suitable for	Chain age		Suitable for	Landmark / Remark	
	Transplantation			Transplantation		
	North	Kms		South		
IVC	57	110	111	0	40 trees not marked	
	0	111	112	0		
	0	112	113	0		
	0	113	114	0		
	0	114	115	0		
	0	115	116	0		
	0	116	117	0		
	0	117	118	0		
	0	118	119	0		
	0	119	120	0		By Pass SASARAM
	0	120	121	0		
	0	121	122	0		
	0	122	123	0		
	0	123	124	0		
	0	124	125	0		
	0	125	126	0		
	0	126	127	0		
	0	127	128	0		
	0	128	129	0		
	0	129	130	0		
	5	130	131	0		
	5	131	132	0		
	1	132	133	3		
	4	133	134	1		
	0	134	135	0		
	0	135	136	0		
	0	136	137	0		
	0	137	138	0		
	0	138	139	0		
	9	139	140	0		
Total	81			4	85	

Concised Chainagewise List of Suitable Trees to be transplanted.

Package	Suitable for		Chain age		Suitable for		Landmark / Remark
	Transplantation				Transplantation		
	North		Kms		South		
VB	0		240	241		14	
	0		241	242		0	
	0		242	243		0	
	0		243	244		0	
	0		244	245		0	
	0		245	246		0	
	0		246	247		0	
	8		247	248		1	
	0		248	249		0	Chauparan village
	0		249	250		0	"
	0		250	251		0	"
	0		251	252		0	"
	0		252	253		0	"
	0		253	254		0	"
	0		254	255		0	"
	0		255	256		0	"
	0		256	257		0	"
	0		257	258		0	"
	0		258	259		0	"
	0		259	260		0	"
	0		260	261		0	
	7		261	262		1	
	0		262	263		0	Valley on Both sides
	0		263	264		0	"
	0		264	265		0	"
	0		265	266		7	
	0		266	267		0	
	0		267	268		6	
0		268	269		10		
0		269	270		0		
0		270	271		3		
0		271	272		0		
0		272	273		20		
0		273	274		0		
0		274	275		17		
0		275	276		0		
1		276	277		18	SINGHARWAN	
0		277	278		0		
0		278	279		0		
0		279	280		86		
0		280	281		0		
0		281	282		0		
0		282	283		0		
0		283	284		0	} By Pass BARHI	
0		284	285		0		
0		285	286		0		
0		286	287		0		

Concised Chainagewise List of Suitable Trees to be transplanted.

Package	Suitable for	Chain age		Suitable for	Landmark / Remark
	Transplantation			Transplantation	
	North	Kms		South	
	0	287	288	0	
	0	288	289	0	
	0	289	290	0	
	0	290	291	0	
	0	291	292	0	
	0	292	293	3	
	0	293	294	1	
	0	294	295	4	
	0	295	296	0	
	2	296	297	4	
	0	297	298	0	
	0	298	299	0	
	0	299	300	6	
	0	300	301	3	
	0	301	302	6	
	0	302	303	2	
	1	303	304	1	
	2	304	305	0	
	0	305	306	0	
	0	306	307	0	
	3	307	308	0	
	7	308	309	0	BARAKATTA
	0	309	310	0	
	0	310	311	0	
	0	311	312	0	
	10	312	313	0	
	1	313	314	4	
	0	314	315	0	Old Trees
	0	315	316	0	
	0	316	317	0	
	0	317	318	0	
	0	318	319	0	By Pass GORHAR
	0	319	320	0	
Total	42			217	
Gr Total	484			318	802

Detailed Statement of trees Suitable for Transplantation										
Package IA(199 to 250.500)										
Sr No	Chain -		Tree			RoadSide Tree		Forest		Remark
	Age	Side	Girth	Hight	Age	Distance	Species	No		
	Kms	N/S		ft	Yrs	Mtrs				
1	2	3	4	5	6	7	8	9	10	
1	206-207	S	3.67	35	15	10	Karanj	696		
2	206-207	S	4.97	35	20	10	Karanj	697		
3	206-207	S	4.71	50	20	20	Shivar	692		
4	206-207	S	3.40	10	13	10	Neem	707		
5	206-207	S	3.67	30	15	10	Neem	711		
6	206-207	S	5.24	30	20	10	Karanj	712		
7	206-207	S	5.76	35	20	10	Shisam	727		
8	206-207	S	5.50	35	20	10	Karanj	728		
9	206-207	S	7.59	40	29	10	Neem	731		
10	206-207	S	3.40	30	15	10	Shisam	732		
11	206-207	N	6.55	40	30	10	Shisam	557		
12	206-207	N	6.28	40	30	10	Shisam	554		
13	206-207	N	3.93	35	15	10	Shisam	552		
14	206-207	N	5.76	35	20	8-15	Shisam	557		
15	206-207	N	5.76	35	20	8-15	Shisam	574		
16	206-207	N	4.71	40	18	8-15	Neem	573		
17	206-207	S	4.45	35	18	8-15	Karanj	751		
18	206-207	N	7.07	35	35	8-15	Neem	507		
19	206-207	N	5.24	40	25	8-15	Shisam	584		
20	207-208	N	7.33	35	35	8-15	Shisam	595		
21	207-208	N	3.67	35	15	15	Shisam	597		
22	207-208	N	4.97	35	18	15	Shisam	598		
23	207-208	N	5.24	35	20	15	Shisam	600		
24	207-208	N	3.93	35	12	15	Shisam	601		
25	207-208	N	4.97	35	15	15	Shisam	602		
26	207-208	N	4.97	35	15	15	Shisam	603		
27	207-208	N	5.24	35	22	15	Shisam	606		
28	207-208	N	5.50	35	22	15	Shisam	607		
29	207-208	N	4.97	35	18	10-Jan	Shisam	608		
30	207-208	N	4.71	35	18	10	Shisam	611		
31	207-208	N	5.24	35	22	10	Shisam	613		
32	207-208	N	6.28	35	25	10	Shisam	614		
33	207-208	N	7.33	35	30	10	Shisam	615		
34	208-209	S	4.97	40	18	8-15	Sisham	904		
35	208-209	S	4.71	30	18	8-15	Sisham	908		
36	208-209	S	5.24	30	22	8-15	Neem	909		
37	208-209	S	4.71	30	18	8-15	Sisham	910		
38	208-209	S	4.19	25	18	8-15	Sisham	912		
39	208-209	S	4.97	25	19	8-15	Sisham	915		
40	208-209	S	5.76	25	24	8-15	Sisham	916		
41	208-209	S	4.71	30	18	8-15	Sisham	920		
42	208-209	S	4.19	25	18	8-15	Sisham	921		
43	209-210	N	6.55	30	26	8-15	Neem	102		
44	209-210	N	7.85	30	30	8-15	Neem	1038		
45	209-210	N	6.81	30	25	8-15	Sisham	1039		

Detailed Statement of trees Suitable for Transplantation										
Package IA(199 to 250.500)										
Sr	Chain -		Tree			RoadSide	Tree	Forest		
No	Age	Side	Girth	Hight	Age	Distance	Species	No	Remark	
	Kms	N/S		ft	Yrs	Mtrs				
1	2	3	4	5	6	7	8	9	10	
46	209-210	N	4.19	25	18	8-15	Sisham	1044		
47	209-210	N	4.19	20	18	8-15	Sisham	1045		
48	209-210	N	5.24	25	25	8-15	Sisham	1047		
49	209-210	N	4.71	20	18	8-15	Sisham	1048		
50	209-210	N	5.76	25	22	8-15	Sisham	1050		
51	209-210	N	4.71	25	18	8-15	Sisham	1051		
52	209-210	N	3.14	25	12	8-15	Sisham	1052		
53	209-210	N	2.62	30	10	8-15	Sisham	1053		
54	209-210	N	5.50	30	25	8-15	Sisham	1056		
55	209-210	N	4.19	30	18	8-15	Sisham	1057		
56	209-210	N	5.50	35	20	8-15	Sisham	1059		
57	209-210	N	5.24	35	20	8-15	Sisham	1060		
58	210-211	N	7.59	35	25	10	Shisam	21		
59	210-211	N	6.02	35	23	10	Neem	23		
60	210-211	N	7.85	40	26	10	Shisam	24		
61	210-211	N	5.76	40	20	10	Neem	27		
62	210-211	N	7.85	35	26	10	Neem	28		
63	210-211	N	7.07	35	26	10	Neem	31		
64	210-211	N	6.55	35	23	10	Neem	33		
65	210-211	N	8.90	40	32	10	Neem	34		
66	210-211	N	9.16	40	35	10	Neem	39		
67	210-211	N	10.21	35	35	10	Neem	42		
68	210-211	N	8.12	30	32	10	Neem	45		
69	210-211	N	8.38	35	32	10	Neem	46		
70	210-211	N	7.59	35	28	10	Cassia F	48	Cassia Fistula	
71	210-211	N	4.97	25	18	10	Shisam	50		
72	210-211	S	4.71	30	18	8-15	Sisham	176		
73	210-211	S	4.19	30	18	8-15	Sisham	178		
74	210-211	S	3.14	25	12	8-15	Sisham	179		
75	210-211	S	3.93	30	12	8-15	Sisham	181		
76	210-211	S	4.45	25	12	8-15	Sisham	180		
77	210-211	S	3.14	20	12	8-15	Sisham	182		
78	210-211	S	3.40	25	12	8-15	Sisham	183		
79	210-211	S	4.71	25	15	8-15	Sisham	184		
80	210-211	S	3.93	20	15	8-15	Sisham	182		
81	210-211	S	4.45	20	15	8-15	Sisham	193		
82	210-211	S	4.71	25	15	8-15	Sisham	194		
83	210-211	S	3.67	25	12	8-15	Sisham	196		
84	210-211	S	3.40	25	12	8-15	Sisham	197		
85	210-211	S	5.24	25	15	8-15	Sisham	196		
86	210-211	S	4.71	25	13	8-15	Sisham	187		
87	210-211	S	3.67	35	12	8-15	Pipal	NN		
88	210-211	S	4.45	30	15	8-15	Sisham	200		
89	210-211	S	3.93	25	12	8-15	Sisham	201		
90	211-212	S	5.24	35	22	8-15	Shisam	203		

Detailed Statement of trees Suitable for Transplantation										
Package IA(199 to 250.500)										
Sr	Chain -		Tree			RoadSide	Tree	Forest		
No	Age	Side	Girth	Hight	Age	Distance	Species	No	Remark	
	Kms	N/S		ft	Yrs	Mtrs				
1	2	3	4	5	6	7	8	9	10	
91	211-212	S	4.45	25	18	8-15	Shisam	205		
92	211-212	S	5.76	30	25	8-15	Shisam	208		
93	211-212	S	5.24	30	25	8-15	Shisam	210		
94	211-212	S	6.81	25	26	8-15	Neem	213		
95	211-212	S	5.50	25	25	8-15	Neem	216		
96	211-212	S	7.07	35	36	8-15	Shisam	217		
97	211-212	S	6.55	25	33	8-15	Neem	218		
98	212-213	S	6.55	25	31	8-15	Shisam	292		
99	212-213	S	4.45	25	19	8-15	Shisam	293		
100	212-213	S	4.71	30	20	8-15	Shisam	295		
101	212-213	S	3.40	20	15	8-15	Shisam	296		
102	212-213	S	4.71	25	15	8-15	Karanj	324		
103	212-213	S	4.45	20	15	8-15	Shisam	325		
104	212-213	S	3.93	25	12	8-15	Shisam	332		
105	212-213	S	4.71	25	12	8-15	Shisam	333		
106	212-213	S	4.19	25	12	8-15	Shisam	352		
107	212-213	S	3.40	20	11	8-15	Shisam	354		
108	213-214	S	3.14	20	10	8-15	Shisam	363		
109	213-214	S	3.14	20	12	8-15	Shisam	365		
110	213-214	S	4.19	25	10	8-15	Shisam	371		
111	213-214	S	4.45	25	12	8-15	Shisam	386		
112	213-214	S	3.67	25	10	8-15	Shisam	451		
113	213-214	S	3.93	25	10	8-15	Shisam	452		
114	213-214	S	3.40	20	10	8-15	Shisam	453		
115	213-214	S	3.93	20	10	8-15	Shisam	454		
116	213-214	S	3.67	20	10	8-15	Shisam	455		
117	213-214	S	3.40	20	10	8-15	Shisam	456		
118	213-214	S	4.97	20	12	8-15	Shisam	457		
119	213-214	S	4.19	20	12	8-15	Karanj	459		
120	213-214	S	4.71	25	12	8-15	Neem	NN		
121	213-214	S	4.71	25	12	8-15	Shisam	462		
122	213-214	S	4.45	25	15	8-15	Shisam	465		
123	214-215	S	3.40	20	12	8-15	Shisam	581		
124	214-215	S	4.97	25	15	8-15	Neem	583		
125	214-215	S	3.14	20	12	8-15	Shisam	585		
126	214-215	S	3.93	20	12	8-15	Shisam	589		
127	214-215	S	4.19	25	15	8-15	Shisam	592		
128	214-215	S	3.40	25	12	8-15	Shisam	593		
129	214-215	S	3.93	20	12	8-15	Shisam	594		
130	215-216	S	3.14	25	12	8-15	Shisam	883		
131	215-216	S	3.40	25	12	8-15	Shisam	885		
132	215-216	S	3.40	25	12	8-15	Shisam	887		
133	215-216	S	3.40	25	12	8-15	Shisam	889		
134	215-216	S	3.93	20	12	8-15	Shisam	890		
135	215-216	S	3.93	25	12	8-15	Shisam	894		

Detailed Statement of trees Suitable for Transplantation										
Package IA(199 to 250,600)										
Sr No	Chain -		Tree			RoadSide	Tree	Forest		Remark
	Age	Side	Girth	Hight	Age	Distance	Species	No		
	Kms	N/S		ft	Yrs	Mtrs				
1	2	3	4	5	6	7	8	9	10	
136	215-216	S	3.40	25	11	8-15	Shisam	895		
137	215-216	S	3.40	25	10	8-15	Shisam	899		
138	215-216	S	4.19	30	14	8-15	Shisam	901		
139	215-216	S	3.40	25	12	8-15	Shisam	903		
140	215-216	S	3.14	20	12	8-15	Shisam	905		
141	215-216	S	3.93	15	14	8-15	Shisam	912		
142	215-216	S	4.19	25	15	8-15	Shisam	917		
143	215-216	S	3.93	18	12	8-15	Shisam	918		
144	215-216	S	4.45	30	13	8-15	Shisam	919		
145	215-216	S	3.93	30	13	8-15	Shisam	921		
146	215-216	S	3.93	25	13	8-15	Shisam	919		
147	215-216	S	3.67	15	13	8-15	Shisam	929		
148	215-216	S	3.93	20	12	8-15	Shisam			
149	215-216	S	3.14	25	15	8-15	Shisam	931		
150	215-216	S	3.67	25	12	8-15	Shisam	932		
151	215-216	S	3.40	25	12	8-15	Shisam	933		
152	215-216	S	3.93	20	12	8-15	Shisam	935		
153	215-216	S	3.14	25	15	8-15	Shisam	942		
154	215-216	S	3.67	20	12	8-15	Shisam	944		
155	215-216	S	3.40	20	12	8-15	Shisam	949		
156	219-220								OFCable	
157	223-224	N	7.07	40	26	10	Shisam	1123		
158	223-224	N	4.45	30	15	10	Shisam	1117		
159	223-224	N	4.45	30	15	10	Shisam	1096		
160	223-224	N	5.24	30	20	10	Shisam	1091		
161	223-224	N	5.76	30	20	10	Shisam	1083		
162	223-224	N	7.33	35	28	10	Shisam	1078		
163	223-224	N	5.24	35	21	10	Shisam	1057		
164	223-224	N	6.28	35	22	10	Shisam	1045		
165	223-224	N	6.55	30	22	10	Shisam	1128		
166	223-224	N	5.76	30	21	10	Shisam	1126		
167	223-224	N	5.50	30	25	10	Shisam			
168	224-225	N	4.71	35	20	10	Shisam	1127		
169	224-225	N	6.81	40	35	10	Ssiam	1235		
170	224-225	N	6.02	35	30	10	Shisam	1336		
171	224-225	N	5.24	35	26	10	Shisam	1343		
172	224-225	N	6.28	35	31	10	Shisam	1355		
173	224-225	N	6.55	35	33	10	Shisam	1363		
174	224-225	N	8.12	35	41	10	Shisam	1370		
175	224-225	N	4.45	35	22	10	Shisam	1386		
176	224-225	N	5.24	35	26	10	Shisam	1393		
177	224-225	N	4.45	35	22	10	Shisam	1397		
178	224-225	N	4.71	35	24	10	Shisam	1403		
179	224-225	N	5.76	35	29	10	Shisam	1469		
180	224-225	N	6.55	35	33	10	Shisam	1496		

Detailed Statement of trees Suitable for Transplantation										
Package IA(199 to 250.600)										
Sr	Chain -		Tree			RoadSide	Tree	Forest		
No	Age	Side	Girth	Hight	Age	Distance	Species	No	Remark	
	Kms	N/S		ft	Yrs	Mtrs				
1	2	3	4	5	6	7	8	9	10	
181	224-225	N	6.81	35	34	10	Shisam	1523		
182	224-225	N	6.55	35	33	10	Shisam	1530		
183	224-225	N	5.24	35	26	10	Shisam	1538		
184	224-225	N	6.55	35	33	10	Shisam	1549		
185	224-225	N	3.40	25	17	10	Jamun	1559		
186	224-225	N	3.27	25	16	10	Jamun	1567		
187	224-225	N	4.19	30	21	10	Jamun	1571		
188	224-225	N	5.50	25	27	10	Shisam	1572		
189	225-226	N	4.97	30	25	10	Shisam	1685		
190	225-226	N	7.33	35	37	8-15	Shisam	1686		
191	225-226	N	4.97	35	25	8-15	Shisam	1687		
192	225-226	N	3.67	20	18	8-15	Shisam	NN		
193	225-226	N	6.02	30	30	8-15	Shisam	1685		
194	225-226	N	3.40	25	17	8-15	Karanj	1687		
195	225-226	N	3.40	25	17	8-15	Karanj	1692		
196	225-226	N	4.71	25	24	8-15	Karanj	1700		
197	225-226	N	4.19	25	21	8-15	Karanj	1704		
198	225-226	N	5.24	25	26	8-15	Karanj	1722		
199	225-226	N	4.19	25	21	8-15	Karanj	NN		
200	225-226	N	9.16	30	46	8-15	Shisam	1720		
201	225-226	N	6.02	35	30	8-15	Shisam	1728		
202	225-226	N	6.55	35	33	8-15	Shisam	1735		
203	225-226		5.76	35	29	8-15	Shisam	1739		
204	225-226		3.40	30	17	10	Shisam			
205	225-226		4.71	30	24	10	Shisam	1746		
206	225-226		4.45	30	22	10	Shisam	1739		
207	225-226		4.19	20	21	10	Shisam	1735		
208	226-227	N	4.71	30	24	10	Shisam	NN		
209	226-227	N	4.97	30	25	8-15	Shisam	1734		
210	226-227	N	5.76	30	29	8-15	Shisam	1787		
211	226-227	N	6.02	35	30	8-15	Shisam	1789		
212	226-227	N	6.28	35	31	8-15	Shisam	1794		
213	226-227	N	3.67	35	18	8-15	Shisam	1799		
214	226-227	N	6.81	35	34	8-15	Shisam	1800		
215	226-227	N	5.24	35	26	8-15	Shisam	1803		
216	226-227	N	7.59	35	38	8-15	Shisam	1805		
217	226-227	N	5.24	25	26	8-15	Shisam	1806		
218	226-227	N	4.71	25	24	8-15	Shisam	1807		
219	226-227	N	3.93	25	20	8-15	Shisam	1809		
220	226-227	N	3.40	25	17	8-15	Shisam	1813		
221	226-227	N	6.28	30	31	8-15	Shisam	1817		
222	226-227	N	7.85	35	39	8-15	Shisam	1821		
223	226-227	N	5.76	30	29	10	Shisam	1835		
224	226-227	N	6.02	35	30	10	Shisam	1847		
225	226-227	N	3.67	30	18	15	Shisam	1867		

Detailed Statement of trees Suitable for Transplantation									
Package IA(199 to 250.500)									
Sr No	Chain -		Tree			RoadSide	Tree	Forest	Remark
	Age	Side	Girth	Hight	Age	Distance	Species	No	
1	Kms	N/S	ft	Yrs	Mtrs	8	9	10	
226	226-227	N	6.02	35	30	15	Shisam	1872	
227	226-227	N	3.67	30	18	15	Shisam	1888	
228	226-227	N	5.50	35	27	15	Shisam	1891	
229	226-227	N	4.45	25	22	15	Shisam	1907	
230	226-227	N	3.93	25	20	15	Shisam	1908	
231	226-227	N	3.67	30	18	15	Shisam	1916	
232	226-227	N	7.59	35	38	15	Shisam	1917	
233	226-227	N	6.81	40	34	15	Shisam	1925	
234	226-227	N	6.02	40	30	15	Shisam	1934	
235	226-227	N	5.50	35	27	15	Shisam	1938	
236	226-227	N	6.02	35	30	15	Shisam	1954	
237	226-227	N	7.33	35	37	15	Shisam	1959	
238	226-227	N	7.85	35	39	15	Shisam	1960	
239	226-227	N	9.42	40	47	15	Shisam	1969	
240	226-227	N	5.76	46	29	15	Shisam	1975	
241	226-227	N	6.55	35	33	15	Shisam	1978	
242	226-227	N	5.76	35	29	15	Shisam	1982	
243	226-227	N	5.50	35	27	15	Shisam	1987	
244	226-227	N	8.38	40	42	15	Shisam	1991	
245	226-227	N	6.02	40	30	15	Shisam	1993	
246	226-227	N	8.90	40	45	15	Shisam	1994	
247	230-231	N	4.71	30	24	15	Shisam		
248	230-231	N	3.40	30	17	15	Shisam		Petrol Pump
249	230-231	N	3.40	30	17	15	Shisam		
250	230-231	N	4.45	35	22	15	Shisam		
251	230-231	N	4.97	30	25	15	Shisam		
252	230-231	N	4.19	35	21	15	Shisam		
253	230-231	N	4.45	20	22	15	Shisam		
254	230-231	N	3.93	25	20	15	Shisam		
255	230-231	N	4.45	30	22	15	Shisam		
256	230-231	N	7.33	35	37	15	Shisam		
257	230-231	N	4.19	30	21	15	Shisam		
258	230-231	N	5.76	35	29	15	Shisam		
259	230-231	N	4.19	30	21	10	Shisam		
260	230-231	N	3.93	30	20	15	Shisam		
261	230-231	N	3.40	25	17	15	Shisam		
262	230-231	N	3.14	30	16	15	Shisam		
263	230-231	N	4.19	30	21	15	Shisam		
264	230-231	N	3.14	25	16	15	Shisam		
265	230-231	N	3.67	35	18	15	Shisam		
266	230-231	N	3.67	35	18	15	Shisam		
267	230-231	N	3.14	25	16	15	Shisam		
268	230-231	N	4.45	40	22	15	Shisam		
269	230-231	N	3.93	35	20	15	Shisam		
270	230-231	N	3.93	30	20	15	Shisam		

Detailed Statement of trees Suitable for Transplantation									
Package IA(199 to 250.500)									
Sr No	Chain -		Tree			RoadSide	Tree	Forest	Remark
	Age	Side	Girth	Hight	Age	Distance	Species	No	
	Kms	N/S		ft	Yrs	Mtrs			
1	2	3	4	5	6	7	8	9	10
271	230-231	N	3.40	30	17	15	Shisam		
272	230-231	N	4.45	30	22	15	Shisam		
273	230-231	N	3.14	30	16	15	Shisam		
274	230-231	N	4.71	40	24	15	Shisam		
275	230-231	N	3.67	35	18	15	Shisam		
276	230-231	N	3.40	30	17	10	Shisam		
277	230-231	N	3.67	35	18	10	Shisam		
278	230-231	N	4.45	35	22	10	Shisam		
279	230-231	N	3.93	35	20	10	Shisam		
280	230-231	N	4.19	35	21	10	Shisam		
281	230-231	N	3.67	30	18	10	Shisam		
282	230-231	N	3.93	35	20	10	Shisam		
283	230-231	N	4.19	35	21	10	Shisam		
284	230-231	N	3.40	30	17	10	Shisam		
285	230-231	N	4.19	30	21	10	Shisam		
286	230-231	N	3.93	25	20	10	Shisam		
287	230-231	N	3.14	25	16	10	Shisam		
288	230-231	N	3.67	30	18	10	Shisam		
289	231-232	N	3.93	30	20	8-15	Shisam		
290	231-232	N	3.14	30	16	8-15	Shisam		
291	231-232	N	3.40	30	17	8-15	Shisam		
292	231-232	N	3.67	25	18	8-15	Shisam		
293	231-232	N	3.67	30	18	8-15	Shisam		
294	231-232	N	4.19	30	21	8-15	Shisam		
295	231-232	N	3.67	30	18	8-15	Shisam		
296	231-232	N	3.93	25	20	8-15	Shisam		
297	231-232	N	3.14	25	16	8-15	Shisam		
298	231-232	N	3.67	30	18	8-15	Shisam		
299	231-232	N	4.71	30	24	8-15	Shisam		
300	231-232	N	3.93	20	20	8-15	Shisam		
301	231-232	N	3.67	20	18	8-15	Shisam		
302	231-232	N	3.14	20	16	8-15	Shisam		
303	231-232	N	4.19	30	21	8-15	Shisam		
304	231-232	N	4.19	30	21	8-15	Shisam		
305	231-232	N	8.12	35	41	8-15	Neem		
306	231-232	N	4.97	35	25	8-15	Shisam		
307	231-232	N	4.71	35	24	8-15	Shisam		
308	231-232	N	7.07	35	35	8-15	Shisam		
309	231-232	N	7.07	35	35	8-15	Shisam		
310	231-232	N	6.81	35	34	8-15	Shisam		
311	231-232	N	5.50	40	27	8-15	Shisam		
312	231-232	N	8.12	35	41	8-15	Shisam		
313	231-232	N	7.33	35	37	8-15	Shisam		
314	231-232	N	8.12	35	41	8-15	Shisam		
315	231-232	N	4.97	30	25	8-15	Shisam		

Detailed Statement of trees Suitable for Transplantation									
Package IA(199 to 250.500)									
Sr No	Chain -		Tree			RoadSide Tree		Forest	
	Age	Side	Girth	Hight	Age	Distance	Species	No	Remark
	Kms	N/S		ft	Yrs	Mtrs			
1	2	3	4	5	6	7	8	9	10
316	231-232	N	5.50	35	27	8-15	Shisam		
317	231-232	N	5.76	40	29	8-15	Shisam		
318	244-245	N	4.71	35	24	8-15	Shisam	77	
319	244-245	N	4.45	30	22	8-15	Shisam	81	
320	244-245	N	6.28	35	31	8-15	Shisam	85	
321	244-245	N	5.50	30	27	8-15	Shisam	88	
322	244-245	N	9.16	35	46	8-15	Shisam	89	
323	244-245	N	8.90	35	45	8-15	Shisam	92	
324	244-245	N	4.97	30	25	8-15	Shisam	95	
325	244-245	N	4.71	30	24	8-15	Shisam	4	
326	244-245	N	4.45	30	22	8-15	Shisam	8	
327	244-245	N	3.67	30	18	8-15	Shisam	22	
328	244-245	N	3.40	25	17	8-15	Shisam	24	
329	244-245	N	3.14	25	16	8-15	Shisam	26	
330	244-245	N	3.67	30	18	8-15	Shisam	27	
331	244-245	N	3.14	30	16	8-15	Shisam	28	
332	244-245	N	3.40	30	17	8-15	Shisam	29	
333	244-245	N	3.93	30	20	8-15	Shisam	31	
334	244-245	N	3.40	30	17	8-15	Shisam	32	
335	244-245	N	3.67	30	18	8-15	Karanj	35	
336	244-245	N	5.76	35	29	8-15	Shisam	37	
337	244-245	N	7.07	35	35	8-15	Shisam	38	
338	244-245	N	3.93	30	20	8-15	Shisam	41	
339	244-245	N	4.45	35	22	8-15	Shisam	NN	
340	244-245	N	4.19	30	21	8-15	Shisam	44	
341	244-245	N	3.40	25	17	8-15	Shisam	45	
342	244-245	N	4.71	30	24	8-15	Shisam	51	
343	244-245	N	3.14	25	16	8-15	Shisam	49	
344	244-245	N	3.14	25	16	8-15	Shisam	50	
345	244-245	N	3.14	25	16	8-15	Shisam	52	
346	244-245	N	3.40	30	17	8-15	Shisam	53	
347	244-245	N	3.93	30	20	8-15	Shisam	54	
348	244-245	N	3.67	30	18	8-15	Shisam	57	
349	244-245	N	3.40	30	17	8-15	Shisam	59	
350	244-245	N	3.40	30	17	8-15	Shisam	60	
351	244-245	N	6.81	40	34	8-15	Shisam	61	
352	244-245	N	4.19	30	21	8-15	Shisam	62	
353	244-245	N	3.40	30	17	8-15	Shisam	64	
354	244-245	N	3.67	30	18	8-15	Shisam	67	
355	244-245	N	3.93	30	20	8-15	Shisam	71	
356	244-245	N	3.14	38	16	8-15	Shisam	69	
357	244-245	N	3.14	30	16	8-15	Shisam	70	
358	244-245	N	3.93	30	20	8-15	Shisam	73	
359	244-245	N	3.93	30	20	8-15	Shisam	74	
360	244-245	N	3.14	20	16	8-15	Karanj	66	

Detailed Statement of trees Suitable for Transplantation										
Package IA(199 to 250.500)										
Sr No	Chain - Age	Side	Tree			RoadSide	Tree	Forest		Remark
1	2	3	Girth	Height	Age	Distance	Species	No		
	Kms	N/S		ft	Yrs	Mtrs			10	
361	244-245	N	4.19	30	21	8-15	Karanj	81		
362	244-245	N	4.45	30	22	8-15	Shisam	77		
363	244-245	N	3.40	30	17	8-15	Shisam	80		
364	244-245	N	4.19	30	21	8-15	Shisam	82		
365	244-245	N	3.40	25	17	8-15	Shisam	84		
366	245-246	N	3.14	30	16	8-15	Shisam	82		
367	245-246	N	3.14	30	16	8-15	Shisam	87		
368	245-246	N	3.40	30	17	8-15	Shisam	89		
369	245-246	N	3.67	30	18	8-15	Shisam	93		
370	245-246	N	3.14	30	16	8-15	Shisam	95		
371	245-246	N	3.67	30	18	8-15	Shisam	97		
372	245-246	N	3.14	35	16	8-15	Shisam	96		
373	245-246	N	3.40	35	17	8-15	Shisam	92		
374	245-246	N	3.14	30	16	8-15	Shisam	91		
375	245-246	N	3.67	30	18	8-15	Shisam	99		
376	245-246	N	3.40	30	17	8-15	Shisam	98		
377	245-246	N	3.40	30	17	8-15	Shisam	2500		
378	245-246	N	3.14	35	16	8-15	Shisam	2		
379	245-246	N	3.40	30	17	8-15	Shisam	3		
380	245-246	N	3.93	30	20	8-15	Shisam	7		
381	245-246	N	3.14	30	16	8-15	Shisam	6		
382	245-246	N	3.14	30	16	8-15	Shisam	5		
383	245-246	N	3.40	30	17	8-15	Shisam	9		
384	245-246	N	3.67	30	18	8-15	Shisam	11		
385	245-246	N	3.40	30	17	8-15	Shisam	12		
386	245-246	N	3.40	30	17	8-15	Shisam	13		
387	245-246	N	3.67	35	18	8-15	Shisam	16		
388	245-246	N	5.24	35	26	8-15	Shisam	19		
389	245-246	N	3.14	35	16	8-15	Shisam	20		
390	245-246	N	4.19	35	21	8-15	Shisam	21		
391	245-246	N	3.14	35	16	8-15	Shisam	22		
392	245-246	N	3.14	35	16	8-15	Shisam	25		
393	245-246	N	3.93	35	20	8-15	Shisam	26		
394	245-246	N	3.67	30	18	8-15	Shisam	29		
395	245-246	N	3.67	35	18	8-15	Shisam	27		
396	245-246	N	3.40	35	17	8-15	Shisam	32		
397	245-246	N	3.14	35	16	8-15	Shisam	33		
398	245-246	N	3.67	30	18	8-15	Shisam	38		
399	245-246	N	4.19	35	21	8-15	Shisam	28		
400	245-246	N	3.67	35	18	8-15	Shisam	30		
401	245-246	N	3.14	15	16	8-15	Shisam	36		
402	245-246	N	3.14	20	16	8-15	Shisam	37		
403	245-246	N	3.40	30	17	8-15	Shisam	40		
404	245-246	N	3.14	30	16	8-15	Shisam	43		
405	245-246	N	4.45	30	22	8-15	Shisam	45		

Detailed Statement of trees Suitable for Transplantation										
Package IA(199 to 250.600)										
Sr No	Chain -		Tree			RoadSide	Tree	Forest	Remark	
	Age	Side	Girth	Hight	Age	Distance	Species	No		
	Kms	N/S		ft	Yrs	Mtrs				
1	2	3	4	5	6	7	8	9	10	
406	245-246	N	3.40	30	17	8-15	Shisam	49		
407	245-246	N	3.40	30	17	8-15	Shisam	47		
408	245-246	N	4.19	30	21	8-15	Shisam	48		
409	245-246	N	4.19	30	21	8-15	Shisam	49		
410	245-246	N	4.45	30	22	8-15	Shisam	50		
411	245-246	N	3.40	35	17	8-15	Shisam	52		
412	245-246	N	3.14	30	16	8-15	Shisam	57		
413	245-246	N	3.67	30	18	8-15	Shisam	58		
414	245-246	N	3.93	35	20	8-15	Shisam	61		
415	245-246	N	3.93	35	20	8-15	Shisam	62		
416	245-246	N	4.45	35	22	8-15	Shisam	64		
417	245-246	N	3.14	30	16	8-15	Shisam	65		
418	245-246	N	5.24	30	26	8-15	Shisam	68		
419	245-246	N	3.40	25	17	8-15	Shisam	70		
420	245-246	N	3.93	30	20	8-15	Shisam	71		
421	245-246	N	3.67	35	18	8-15	Shisam	72		
422	245-246	N	3.14	35	16	8-15	Shisam	73		
423	245-246	N	4.19	30	21	8-15	Shisam	74		
424	245-246	N	3.67	25	18	8-15	Shisam	78		
425	245-246	N	4.19	35	21	8-15	Shisam	81		
426	245-246	N	4.45	35	22	8-15	Shisam	83		
427	245-246	N	3.40	30	17	8-15	Shisam	80		
428	245-246	N	4.19	35	21	8-15	Shisam	76		
429	245-246	N	3.67	35	18	8-15	Shisam	79		
430	245-246	N	4.71	35	24	8-15	Shisam	85		
431	245-246	N	3.67	35	18	8-15	Shisam	86		
432	245-246	N	4.71	35	24	8-15	Shisam	90		
433	245-246	N	3.40	20	17	8-15	Shisam	92		
434	245-246	N	3.67	35	18	8-15	Shisam	94		
435	245-246	N	3.14	35	16	8-15	Shisam	95		
436	245-246	N	3.93	30	20	8-15	Shisam	96		
437	245-246	N	4.45	35	22	8-15	Shisam	97		
438	245-246	N	4.45	35	22	8-15	Shisam	99		
439	245-246	N	4.97	35	25	8-15	Shisam	2602		
440	245-246	N	5.24	40	26	8-15	Shisam	1		
441	245-246	N	4.97	35	25	8-15	Shisam	2		
442	245-246	N	6.28	40	31	8-15	Shisam	12		
443	245-246	N	5.24	35	26	8-15	Shisam	13		
444	245-246	N	7.33	35	37	8-15	Mango	14		
445	245-246	N	7.07	35	35	8-15	Shisam	16		
446	246-247	N	3.93	30	20	8-15	Shisam	63		
447	246-247	N	4.71	35	24	8-15	Shisam	64		
448	246-247	N	4.97	15	25	8-15	Mango	65		
449	246-247	N	3.67	30	18	8-15	Shisam	69		
450	246-247	N	5.24	35	26	8-15	Shisam	67		

Detailed Statement of trees Suitable for Transplantation									
Package IA(199 to 250.500)									
Sr No	Chain -		Tree			RoadSide	Tree	Forest	Remark
	Age	Side	Girth	Hight	Age	Distance	Species	No	
	Kms	N/S		ft	Yrs	Mtrs			
1	2	3	4	5	6	7	8	9	10
451	246-247	N	4.19	35	21	8-15	Shisam	68	
452	246-247	N	3.40	30	17	8-15	Shisam	70	
453	246-247	N	3.14	30	16	8-15	Shisam	71	
454	246-247	N	3.14	30	16	8-15	Shisam	72	
455	246-247	N	3.40	30	17	8-15	Shisam	73	
456	246-247	N	3.14	30	16	8-15	Shisam	74	
457	246-247	N	3.14	30	16	8-15	Shisam	75	
458	246-247	N	3.14	25	16	8-15	Shisam	76	
459	246-247	N	3.14	30	16	8-15	Shisam	77	
460	246-247	N	3.14	30	16	8-15	Shisam	79	
461	246-247	N	3.67	30	18	8-15	Shisam	80	
462	246-247	N	4.19	30	21	8-15	Shisam	81	
463	246-247	N	4.71	35	24	8-15	Shisam	82	
464	246-247	N	3.67	30	18	8-15	Shisam	81	
465	246-247	N	4.45	30	22	8-15	Shisam	83	
466	246-247	N	3.40	30	17	8-15	Shisam	84	
467	246-247	N	3.14	30	16	8-15	Shisam	87	
468	246-247	N	3.93	30	20	8-15	Shisam	88	
469	246-247	N	3.67	30	18	8-15	Shisam	91	
470	246-247	N	3.67	30	18	8-15	Shisam	89	
471	246-247	N	4.19	35	21	8-15	Shisam	97	
472	246-247	N	3.67	35	18	8-15	Shisam	98	
473	246-247	N	3.14	35	16	8-15	Shisam	99	
474	246-247	N	3.14	35	16	8-15	Shisam	96	
475	247-48	N	3.93	20	20	8-15	Shisam	64	
476	247-48	N	3.14	20	16	8-15	Shisam	67	
477	247-48	N	3.93	30	20	8-15	Shisam	70	
478	247-48	N	3.14	25	16	8-15	Shisam	72	
479	247-48	N	3.40	30	17	8-15	Shisam	76	
480	247-48	N	3.67	25	18	8-15	Shisam	82	
481	247-48	N	3.67	20	18	8-15	Shisam	83	
482	247-48	N	3.40	20	17	8-15	Shisam	85	
483	247-48	N	4.19	30	21	8-15	Shisam	89	
484	247-48	N	3.93	25	20	8-15	Shisam	95	
485	247-48	N	3.93	30	20	8-15	Shisam	98	
486	247-48	N	4.71	25	24	8-15	Shisam	99	
487	247-48	N	3.40	25	17	8-15	Shisam	1	
488	247-48	N	3.40	30	17	8-15	Shisam	2	
489	247-48	N	3.93	35	20	8-15	Shisam	4	
490	247-48	N	3.40	20	17	8-15	Shisam	5	
491	247-48	N	3.40	25	17	8-15	Shisam	8	
492	247-48	N	3.67	20	18	8-15	Shisam	10	
493	247-48	N	3.93	20	20	8-15	Shisam	11	
494	248-249	N	3.67	30	18	8-15	Shisam	15	
495	248-249	N	3.67	25	18	8-15	Shisam	16	

Detailed Statement of trees Suitable for Transplantation									
Package IA(199 to 250.500)									
Sr No	Chain - Age	Side	Tree			RoadSide	Tree	Forest	Remark
	Kms	N/S	Girth	Height	Age	Distance	Species	No	
1	2	3	4	5	6	7	8	9	10
			ft	ft	Yrs	Mtrs			
496	248-249	N	3.67	20	18	8-15	Shisam	18	
497	248-249	N	3.40	20	17	8-15	Shisam	20	
498	248-249	N	3.40	25	17	8-15	Shisam	24	
499	248-249	N	3.14	20	16	8-15	Shisam	25	
500	248-249	N	3.14	20	16	8-15	Shisam	30	
501	248-249	N	3.14	25	16	8-15	Shisam	31	
502	248-249	N	4.71	35	24	8-15	Shisam	36	
503	248-249	N	4.19	35	21	8-15	Shisam	38	
504	248-249	N	4.97	35	25	8-15	Shisam	39	
505	248-249	N	3.40	30	17	8-15	Shisam	41	
506	248-249	N	4.71	30	24	8-15	Shisam	42	
507	248-249	N	3.93	30	20	8-15	Shisam	nn	
508	248-249	N	4.45	30	22	8-15	Shisam	nn	
509	248-249	N	4.19	40	21	8-15	Shisam	54	
510	248-249	N	3.67	30	18	8-15	Shisam	59	
511	248-249	N	3.67	25	18	8-15	Shisam	65	
512	248-249	N	4.19	29	21	8-15	Shisam	NN	
513	248-249	N	3.67	25	18	8-15	Shisam	NN	
514	248-249	N	3.40	30	17	8-15	Shisam	68	
515	248-249	N	4.45	25	22	8-15	Shisam	73	
516	248-249	N	4.19	25	21	8-15	Shisam	74	
517	248-249	N	3.40	25	17	8-15	Shisam	76	
518	248-249	N	3.67	25	18	8-15	Shisam	79	
519	248-249	N	4.19	30	21	8-15	Shisam	90	
520	248-249	N	5.76	35	29	8-15	Shisam	92	
521	248-249	N	4.19	30	21	8-15	Shisam	93	
522	248-249	N	7.33	40	37	8-15	Shisam	94	
523	248-249	N	5.76	35	29	8-15	Shisam	96	
524	248-249	N	3.14	15	16	8-15	Shisam	98	
525	248-249	N	5.50	40	27	8-15	Shisam	3500	
526	248-249	N	3.93	30	20	8-15	Shisam	1	
527	248-249	N	3.14	20	16	8-15	Shisam	2	
528	248-249	N	4.19	30	21	8-15	Shisam	3	
529	248-249	N	5.76	40	29	8-15	Shisam	6	
530	248-249	N	3.40	15	17	8-15	Shisam	9	
531	248-249	N	8.38	40	42	8-15	Shisam	12	
532	248-249	N	4.19	40	21	8-15	Shisam	13	
533	248-249	N	3.40	35	17	8-15	Shisam	15	
534	248-249	N	4.19	30	21	8-15	Shisam	16	
535	248-249	N	3.67	30	18	8-15	Shisam	20	
536	248-249	N	4.45	35	22	8-15	Shisam	nn	
537	249-250	N	4.71	40	24	8-15	Shisam	nn	
538	249-250	N	3.93	35	20	8-15	Shisam	6	
539	249-250	N	5.76	40	29	8-15	Shisam	67	
540	249-250	N	4.71	35	24	8-15	Shisam	79	

Detailed Statement of trees Suitable for Transplantation									
Package IA(199 to 250.500)									
Sr	Chain -		Tree			RoadSide	Tree	Forest	
No	Age	Side	Girth	Hight	Age	Distance	Species	No	Remark
	Kms	N/S		ft	Yrs	Mtrs	-		
1	2	3	4	5	6	7	8	9	10
541	249-250	N	4.97	40	25	8-15	Shisam	78	
542	249-250	N	3.67	25	18	8-15	Shisam	82	
543	249-250	N	4.19	35	21	8-15	Shisam	85	
544	249-250	N	5.76	35	29	8-15	Shisam	86	
545	249-250	N	4.71	35	24	8-15	Shisam	90	
546	249-250	N	5.24	35	26	8-15	Shisam	94	
547	249-250	N	4.19	35	21	8-15	Shisam	98	
548	249-250	N	3.40	30	17	8-15	Shisam	99	
549	249-250	N	4.71	35	24	8-15	Shisam	101	

Detailed Statement of trees Suitable for Transplantation										
Package IB(250.500 to 307.500)										
Sr No	Chain -		Tree			RoadSide	Tree	Forest		
No	Age	Side	Girth	Hight	Age	Distance	Species	No	Remark	
	Kms	N/S		ft	Yrs	Mtrs				
1	2	3	4.00	5	6	7	8	9	10	
1	256-257	N	4.45	30	22	8-15	Shisam	1855		
2	256-257	N	3.93	20	20	8-15	Shisam	1857		
3	256-257	N	7.85	25	39	8-15	Shisam	1862		
4	256-257	N	5.24	25	26	8-15	Shisam	1863		
5	256-257	N	4.19	20	21	8-15	Shisam	1867		
6	256-257	N	4.97	35	25	8-15	Shisam	1873		
7	256-257	N	6.81	30	34	8-15	Shisam	1876		
8	256-257	N	7.07	30	35	8-15	Shisam	1877		
9	256-257	N	6.02	30	30	8-15	Shisam	1878		
10	256-257	N	4.97	30	25	8-15	Shisam	1880		
11	256-257	N	4.71	25	24	8-15	Shisam	1881		
12	256-257	N	5.76	30	29	8-15	Shisam	1883		
13	256-257	N	3.93	25	20	8-15	Shisam	1885		
14	256-257	N	7.07	30	35	8-15	Shisam	1887		
15	256-257	N	6.81	35	34	8-15	Shisam	1892		
16	256-257	N	5.76	30	29	8-15	Shisam	1895		
17	256-257	N	4.97	35	25	8-15	Shisam	1896		
18	256-257	N	6.02	30	30	8-15	Shisam	1897		
19	256-257	N	4.97	35	25	8-15	Shisam	1898		
20	256-257	N	5.24	30	26	8-15	Shisam	1900		
21	256-257	N	4.19	35	21	8-15	Shisam	1901		
22	256-257	N	5.24	35	26	8-15	Shisam	1909		
23	256-257	N	4.97	35	25	8-15	Shisam	1913		
24	256-257	N	3.93	25	20	8-15	Shisam	1912		
25	256-257	N	7.33	30	37	8-15	Shisam	1916		
26	256-257	N	4.45	25	22	8-15	Shisam	1917		
27	256-257	N	4.19	30	21	8-15	Shisam	1915		
28	256-257	N	4.19	30	21	8-15	Shisam	1916		
29	256-257	N	4.71	30	24	8-15	Shisam	1916		
30	256-257	N	5.24	25	26	8-15	Shisam	1920		
31	256-257	N	5.76	30	29	8-15	Shisam	1923		
32	256-257	N	5.50	30	27	8-15	Shisam	1926		
33	262-263	N	5.50	35	27	8-15	Shisam	3070		
34	262-263	N	5.24	35	26	8-15	Shisam	3072		
35	262-263	N	3.40	25	17	8-15	Shisam	3073		
36	262-263	N	3.67	25	18	8-15	Shisam	3074		
37	262-263	N	4.19	25	21	8-15	Shisam	3075		
38	262-263	N	5.50	30	27	8-15	Shisam	3076		
39	262-263	N	4.19	15	21	8-15	Cassia	3078		
40	262-263	N	3.67	30	18	8-15	Shisam	3077		
41	262-263	N	4.45	25	22	8-15	Shisam	3079		
42	262-263	N	3.40	20	17	8-15	Cassia	3082		
43	262-263	N	3.67	20	18	8-15	Cassia	3081		
44	262-263	N	3.67	20	18	8-15	Cassia	3085		
45	262-263	N	3.14	15	16	8-15	Shisam	3086		

Detailed Statement of trees Suitable for Transplantation										
Package IB(260.500 to 307.500)										
Sr	Chain -		Tree			RoadSide	Tree	Forest		
No	Age	Side	Girth	Hight	Age	Distance	Species	No	Remark	
	Kms	N/S		ft	Yrs	Mtrs				
1	2	3	4.00	5	6	7	8	9	10	
46	262-263	N	3.93	30	20	8-15	Shisam	3087		
47	262-263	N	4.19	25	21	8-15	Shisam	3088		
48	262-263	N	5.50	25	27	8-15	Karanj	3088		
49	262-263	N	3.93	30	20	8-15	Shisam	3091		
50	262-263	N	4.71	25	24	8-15	Karanj	3890		
51	262-263	N	4.71	30	24	8-15	Shisam	3092		
52	262-263	N	4.71	25	24	8-15	Shisam	3094		
53	262-263	N	3.93	25	20	8-15	Shisam	3095		
54	262-263	N	4.45	25	22	8-15	Cassia	3093		
55	262-263	N	4.71	30	24	8-15	Shisam	3097		
56	262-263	N	4.19	30	21	8-15	Shisam	3098		
57	262-263	N	3.40	30	17	8-15	Shisam	3099		
58	262-263	N	4.45	25	22	8-15	Shisam	3100		
59	262-263	N	3.93	25	20	8-15	Shisam	3101		
60	262-263	N	4.71	25	24	8-15	Shisam	3102		
61	262-263	N	3.67	20	18	8-15	Cassia	3013		
62	262-263	N	3.40	25	17	8-15	Cassia	3017		
63	262-263	N	4.45	25	22	8-15	Shisam	3136		
64	262-263	N	3.40	25	17	8-15	Shisam	3137		
65	262-263	N	5.24	25	26	8-15	Shisam	3120		
66	262-263	N	4.71	30	24	8-15	Shisam	3139		
67	262-263	N	4.71	30	24	8-15	Shisam	3141		
68	262-263	N	3.93	30	20	8-15	Shisam	3142		
69	262-263	N	4.19	30	21	8-15	Shisam	3144		
70	262-263	N	4.71	35	24	8-15	Shisam	3145		
71	262-263	N	6.81	40	34	8-15	Shisam	3147		
72	262-263	N	4.71	30	24	8-15	Cassia	3148		
73	262-263	N	3.93	30	20	8-15	Karanj	3149		
74	262-263	N	7.07	30	35	8-15	Shisam	3159		
75	262-263	N	3.67	20	18	8-15	Shisam	3152		
76	262-263	N	3.93	25	20	8-15	Shisam	3156		
77	262-263	N	4.45	35	22	8-15	Shisam	3157		
78	264-265	N	4.19	25	21	8-15	Shisam	3734		
79	264-265	N	4.45	30	22	8-15	Shisam	3735		
80	264-265	N	3.40	25	17	8-15	Shisam	3736		
81	264-265	N	8.38	30	42	8-15	Shisam	3740		
82	264-265	N	6.02	40	30	8-15	Shisam	3743		
83	264-265	N	6.55	40	33	8-15	Shisam	3746		
84	264-265	N	4.45	35	22	8-15	Shisam	3748		
85	264-265	N	3.93	30	20	8-15	Shisam	3751		
86	264-265	N	3.40	25	17	8-15	Shisam	3752		
87	264-265	N	6.28	30	31	8-15	Shisam	3758		
88	264-265	N	6.02	30	30	8-15	Shisam	3760		
89	264-265	N	6.55	35	33	8-15	Shisam	3766		
90	264-265	N	3.67	25	18	8-15	Shisam	3769		

Detailed Statement of trees Suitable for Transplantation										
Package IB(260.500 to 307.500)										
Sr	Chain -		Tree			RoadSide	Tree	Forest		
No	Age	Side	Girth	Height	Age	Distance	Species	No	Remark	
	Kms	N/S		ft	Yrs	Mtrs				
1	2	3	4.00	5	6	7	8	9	10	
91	264-265	N	3.14	30	16	8-15	Shisam	3770		
92	264-265	N	5.24	30	26	8-15	Shisam	3772		
93	264-265	N	3.40	25	17	8-15	Shisam	3775		
94	264-265	N	4.19	30	21	8-15	Shisam	3776		
95	264-265	N	4.45	30	22	8-15	Shisam	3777		
96	264-265	N	6.02	30	30	8-15	Shisam	3779		
97	264-265	N	3.67	20	18	8-15	Cassia	3783		
98	264-265	N	8.38	30	42	8-15	Shisam	3785		
99	264-265	N	3.93	20	20	8-15	Shisam	3789		
100	264-265	N	4.45	20	22	8-15	Shisam	3792		
101	264-265	N	4.71	25	24	8-15	Shisam	3794		
102	264-265	N	4.19	25	21	8-15	Shisam	3736		
103	264-265	N	3.67	25	18	8-15	Shisam	3801		
104	264-265	N	3.40	25	17	8-15	Shisam	3803		
105	264-265	N	4.97	35	25	8-15	Shisam	3816		
106	264-265	N	4.45	30	22	8-15	Shisam	NN		
107	264-265	N	3.14	25	16	8-15	Shisam	3829		
108	264-265	N	4.19	25	21	8-15	Shisam	3830		
109	264-265	N	3.40	25	17	8-15	Shisam	3824		
110	264-265	N	3.93	30	20	8-15	Shisam	3828		
111	264-265	N	4.71	30	24	8-15	Shisam	3847		
112	264-265	N	3.67	20	18	8-15	Shisam	3848		
113	264-265	N	4.19	30	21	8-15	Shisam	3843		
114	264-265	N	3.40	25	17	8-15	Shisam	3842		
115	264-265	N	3.14	25	16	8-15	Shisam	3849		
116	264-265	N	3.40	25	17	8-15	Shisam	3840		
117	264-265	N	3.67	25	18	8-15	Shisam	3851		
118	264-265	N	3.93	30	20	8-15	Shisam	3860		
119	264-265	N	3.40	30	17	8-15	Shisam	3868		
120	264-265	N	5.50	30	27	8-15	Shisam	NN		
121	264-265	N	3.40	25	17	8-15	Shisam	3853		
122	264-265	N	4.19	25	21	8-15	Shisam	NN		
123	264-265	N	4.19	30	21	8-15	Shisam			
124	264-265	N	3.40	30	17	8-15	Shisam	38		
125	264-265	N	3.14	25	16	8-15	Shisam	3888		
126	264-265	N	2.62	40	13	8-15	Shisam	3923		
127	264-265	N	4.19	35	21	8-15	Shisam	3896		
128	264-265	N	4.19	30	21	8-15	Shisam	3899		
129	264-265	N	3.67	30	18	8-15	Shisam	3902		
130	264-265	N	4.97	30	25	8-15	Shisam	3908		
131	265-266	N	5.24	35	26	8-15	Shisam	54		
132	265-266	N	3.40	25	17	8-15	Shisam	53		
133	265-266	N	3.40	30	17	8-15	Shisam	55		
134	265-266	N	4.45	30	22	8-15	Shisam	57		
135	265-266	N	3.67	30	18	8-15	Shisam	58		

Detailed Statement of trees Suitable for Transpalntation									
Package IB(250.500 to 307.500)									
Sr No	Chain -		Tree			RoadSide	Tree	Forest	Remark
	Age	Side	Girth	Hight	Age	Distance	Species	No	
	Kms	N/S		ft	Yrs	Mtrs			
1	2	3	4.00	5	6	7	8	9	10
136	265-266	N	4.45	30	22	8-15	Shisam	60	
137	265-266	N	3.40	20	17	8-15	Neem	63	
138	265-266	N	4.97	35	25	8-15	Shisam	68	
139	265-266	N	3.67	30	18	8-15	Shisam	69	
140	265-266	N	5.76	30	29	8-15	Shisam	70	
141	265-266	N	3.14	25	16	8-15	Shisam	73	
142	265-266	N	3.40	25	17	8-15	Shisam	75	
143	265-266	N	4.71	30	24	8-15	Shisam	79	
144	265-266	N	4.19	30	21	8-15	Shisam	81	
145	265-266	N	3.40	30	17	8-15	Shisam	101	
146	265-266	N	3.67	30	18	8-15	Shisam	107	
147	265-266	N	3.93	30	20	8-15	Shisam	108	
148	265-266	N	4.19	30	21	8-15	Shisam	113	
149	265-266	N	3.93	30	20	8-15	Shisam	NN	
150	282-283	N	6.81	35	34	8-15	Shisam	NN	
151	282-283	N	7.85	35	39	8-15	Shisam	NN	
152	282-283	N	6.02	35	30	8-15	Shisam	40	
153	282-283	N	5.50	35	27	8-15	Shisam	48	
154	282-283	N	5.50	35	27	8-15	Shisam	49	
155	282-283	N	6.81	35	34	8-15	Shisam	44	
156	282-283	N	5.24	35	26	8-15	Shisam	NN	
157	282-283	N	4.71	35	24	8-15	Shisam	NN	
158	282-283	N	6.81	35	34	8-15	Shisam	47	
159	282-283	N	3.67	20	18	8-15	Neem	66	
160	282-283	N	6.02	25	30	8-15	Shisam	67	
161	282-283	N	5.76	25	29	8-15	Shisam	68	
162	282-283	N	9.42	40	47	8-15	Shisam	65	
163	282-283	N	4.97	25	25	8-15	Shisam	72	
164	282-283	N	4.97	25	25	8-15	Shisam	74	
165	286-287	N	5.50	25	27	8-15	Shisam	60	
166	286-287	N	4.19	25	21	8-15	Shisam	NN	
167	286-287	N	3.93	25	20	8-15	Shisam	61	
168	286-287	N	3.14	25	16	8-15	Mango		
169	286-287	N	3.93	20	20	8-15	Shisam	62	
170	286-287	N	4.71	18	24	8-15	Shisam	63	
171	286-287	N	4.19	20	21	8-15	Mango	64	
172	286-287	N	4.71	25	24	8-15	Shisam	70	
173	286-287	N	5.24	25	26	8-15	Mango	73	
174	286-287	N	6.02	30	30	8-15	Shisam	74	
175	286-287	N	7.33	35	37	8-15	Shisam	75	
176	286-287	N	7.33	35	37	8-15	Shisam	77	
177	286-287	N	7.33	35	37	8-15	Shisam	78	
178	286-287	N	4.19	25	21	8-15	Shisam	79	
179	286-287	N	5.24	30	26	8-15	Shisam	80	
180	286-287	N	4.71	30	24	8-15	Shisam	81	

Detailed Statement of trees Suitable for Transplantation										
Package IB(250.500 to 307.500)										
Sr	Chain -	Tree				RoadSide	Tree	Forest		
No	Age	Side	Girth	Height	Age	Distance	Species	No	Remark	
	Kms	N/S	ft	Yrs	Mtrs					
1	2	3	4.00	5	6	7	8	9	10	
181	286-287	N	5.24	33	26	8-15	Shisam	82		
182	286-287	N	4.19	20	21	8-15	Shisam	86		
183	286-287	N	3.93	25	20	8-15	Mango	88		
184	286-287	N	4.19	25	21	8-15	Mango	89		
185	287-288	N	3.40	30	17	8-15	Mango	163		
186	287-288	N	4.19	30	21	8-15	Mango	162		
187	287-288	N	3.14	15	16	8-15	Mango	164		
188	287-288	N	4.71	30	24	8-15	Mango	168		
189	287-288	N	4.19	30	21	8-15	Mango	167		
190	287-288	N	4.45	25	22	8-15	Mango	NN		
191	287-288	N	4.45	25	22	8-15	Mango	NN		
192	287-288	N	4.19	30	21	8-15	Mango	171		
193	287-288	N	4.19	25	21	8-15	Mango	NN		
194	287-288	N	3.93	25	20	8-15	Mango	NN		
195	287-288	N	4.71	25	24	8-15	Mango	NN		
196	287-288	N	3.67	20	18	8-15	Mango	NN		
197	287-288	N	3.93	20	20	8-15	Shisam	NN		
198	287-288	N	4.45	30	22	8-15	Shisam	NN		
199	287-288	N	4.97	35	25	8-15	Shisam	NN		
200	287-288	N	3.93	30	20	8-15	Shisam	NN		
201	287-288	N	3.93	25	20	8-15	Shisam	NN		
202	287-288	N	3.67	25	18	8-15	Shisam	4		
203	287-288	N	3.14	15	16	8-15	Shisam			
204	287-288	N	3.67	25	18	8-15	Shisam	6		
205	287-288	N	4.19	20	21	8-15	Shisam			
206	287-288	N	3.93	25	20	8-15	Shisam			
207	287-288	N	3.67	20	18	8-15	Shisam			
208	287-288	N	4.45	25	22	8-15	Shisam			
209	287-288	N	4.19	25	21	8-15	Shisam			
210	287-288	N	4.97	30	25	8-15	Shisam			
211	287-288	N	4.71	30	24	8-15	Shisam			
212	287-288	N	5.24	30	26	8-15	Shisam			
213	287-288	N	3.40	30	17	8-15	Shisam			
214	287-288	N	3.93	30	20	8-15	Shisam			
215	287-288	N	3.93	30	20	8-15	Shisam			
216	287-288	N	5.24	35	26	8-15	Shisam			
217	287-288	N	5.24	30	26	8-15	Shisam			
218	287-288	N	4.19	30	21	8-15	Shisam			
219	287-288	N	3.40	25	17	8-15	Shisam	21		
220	287-288	N	3.67	25	18	8-15	Shisam	22		
221	287-288	N	5.50	25	27	8-15	Shisam			
222	287-288	N	4.45	25	22	8-15	Shisam			
223	287-288	N	3.40	15	17	8-15	Shisam			
224	287-288	N	5.24		26	8-15	Shisam			
225	287-288	N	3.93		20	8-15	Shisam			

Detailed Statement of trees Suitable for Transpalntation										
Package IB(250.500 to 307.500)										
Sr	Chain -		Tree			RoadSide	Tree	Forest		
No	Age	Side	Girth	Hight	Age	Distance	Species	No	Remark	
	Kms	N/S	ft	ft	Yrs	Mtrs				
1	2	3	4.00	5	6	7	8	9	10	
226	287-288	N	3.93	25	20	8-15	Shisam			
227	287-288	N	4.19	25	21	8-15	Shisam			
228	287-288	N	6.02	30	30	8-15	Shisam			
229	287-288	N	4.71	20	24	8-15	Shisam			
230	287-288	N	3.40	15	17	8-15	Shisam			
231	288-289	N	3.93	20	20	8-15	Shisam			
232	288-289	N	3.93	25	20	8-15	Shisam			
233	288-289	N	5.24	25	26	8-15	Shisam			
234	288-289	N	5.24	30	26	8-15	Shisam			
235	288-289	N	5.24	25	26	8-15	Shisam			
236	288-289	N	4.97	25	25	8-15	Shisam			
237	288-289	N	5.24	25	26	8-15	Shisam			
238	288-289	N	3.67	15	18	8-15	Shisam			
239	288-289	N	5.50	25	27	8-15	Shisam			
240	288-289	N	4.45	20	22	8-15	Shisam			
241	288-289	N	3.93	20	20	8-15	Shisam			
242	288-289	N	4.19	30	21	8-15	Neem			
243	288-289	N	4.71	30	24	8-15	Neem			
244	288-289	N	3.14	30	16	8-15	Mango			
245	288-289	N	3.40	30	17	8-15	Shisam			
246	288-289	N	4.71	30	24	8-15	Shisam	59		
247	288-289	N	5.76	30	29	8-15	Shisam	60		
248	288-289	N	3.40	30	17	8-15	Shisam	61		
249	288-289	N	6.28	30	31	8-15	Shisam	63		
250	288-289	N	7.07	30	35	8-15	Shisam	64		
251	288-289	N	3.67	30	18	8-15	Shisam	65		
252	288-289	N	3.93	30	20	8-15	Shisam	66		
253	288-289	N	7.07	30	35	8-15	Shisam	66		
254	288-289	N	3.67	25	18	8-15	Karanj			
255	288-289	N	3.40	25	17	8-15	Shisam			
256	288-289	N	3.93	25	20	8-15	Shisam			
257	288-289	N	4.19	25	10	8-15	Shisam			
258	288-289	N	4.19	25	10	8-15	Shisam			
259	288-289	N	4.97	30	10	8-15	Shisam			
260	288-289	N	4.71	30	10	8-15	Shisam			
261	288-289	N	4.45	30	10	8-15	Shisam			
262	289-290	N	6.55	30	10	8-15	Shisam			
263	289-290	N	3.93	30	10	8-15	Shisam			
264	289-290	N	4.19	30	10	8-15	Shisam			
265	289-290	N	3.93	25	10	8-15	Shisam			
266	289-290	N	3.93	25	15	8-15	Shisam			
267	289-290	N	3.93	30	10	8-15	Shisam			
268	289-290	N	4.45	30	10	8-15	Shisam			
269	289-290	N	3.67	25	10	8-15	Shisam			
270	289-290	N	3.67	25	10	8-15	Shisam			

Detailed Statement of trees Suitable for Transpalntation										
Package IB(250.500 to 307.500)										
Sr No	Chain -		Tree			RoadSide		Tree Forest		Remark
	Age	Side	Girth	Hight	Age	Distance	Species	No		
	Kms	N/S		ft	Yrs	Mtrs				
1	2	3	4.00	5	6	7	8	9	10	
271	289-290	N	5.50	30	10	8-15	Shisam			
272	289-290	N	3.67	15	10	8-15	Karanj			
273	289-290	N	3.67	10	10	8-15	Karanj			
274	289-290	N	3.40	10	10	8-15	Karanj			
275	289-290	N	4.71	20	10	8-15	Karanj			
276	289-290	N	3.40	15	10	8-15	Karanj			
277	289-290	N	3.67	15	10	8-15	Karanj			
278	289-290	N	8.90	15	10	8-15	Karanj			
279	289-290	N	8.90	15	10	8-15	Karanj			
280	289-290	N	4.71	15	10	8-15	Karanj			
281	289-290	N	3.67	20	10	8-15	Karanj			
282	289-290	N	3.67	20	10	8-15	Karanj			
283	289-290	N	8.38	20	10	8-15	Karanj			
284	289-290	N	3.93	20	10	8-15	Karanj			
285	289-290	N	9.95	35	10	8-15	Shisam			
286	289-290	N	4.97	40	10	8-15	Shisam			
287	290-291	N	4.71	30	5	8-15	Shisam			
288	290-291	N	5.24	30	5	8-15	Shisam			
289	290-291	N	5.24	30	5	8-15	Shisam			
290	290-291	N	4.71	30	5	8-15	Shisam			
291	290-291	N	3.67	30	5	8-15	Shisam			
292	290-291	N	4.45	30	5	8-15	Shisam			
293	290-291	N	4.71	25	10	8-15	Shisam			
294	290-291	N	3.40	20	10	8-15	Shisam			
295	290-291	N	3.40	25	10	8-15	Karanj			
296	290-291	N	3.14	30	10	8-15	Shisam			
297	290-291	N	3.93	30	10	8-15	Shisam			
298	290-291	N	4.71	30	10	8-15	Shisam			
299	290-291	N	6.81	35	10	8-15	Shisam			
300	290-291	N	3.67	25	10	8-15	Shisam			
301	290-291	N	4.19	25	10	8-15	Shisam			
302	291-291.4	N							Green tunnel	
303	291-292	N	8.64	40	10	8-15	Shisam			
304	291-292	N	3.93	25	15	8-15	Shisam			
305	291-292	N	8.38	40	10	8-15	Shisam			
306	291-292	N	5.24	25	10	8-15	Shisam			
307	291-292	N	4.97	30	10	8-15	Shisam			
308	291-292	N	5.50	30	10	8-15	Shisam			
309	291-292	N	7.07	40		8-15	Shisam			
310	291-292	N	6.81	35	10	8-15	Shisam			
311	291-292	N	6.55	35	10	8-15	Shisam			
312	291-292	N	3.67	25	10	8-15	Shisam			
313	291-292	N	3.67	25	5	8-15	Shisam			
314	291-292	N	4.71	25	10	8-15	Shisam			
315	291-292	N	3.93	25	10	8-15	Shisam			

Detailed Statement of trees Suitable for Transplantation										
Package IB(250.500 to 307.500)										
Sr	Chain -		Tree			RoadSide	Tree	Forest		
No	Age	Side	Girth	Hight	Age	Distance	Species	No	Remark	
	Kms	N/S		ft	Yrs	Mtrs				
1	2	3	4.00	5	6	7	8	9	10	
316	291-292	N	4.19	25	5	8-15	Cassia			
317	292-294	N	8.12	35	10	8-15	Sisham			
318	292-294	N	5.50	25	10	8-15	Sisham			
319	292-294	N	6.81	40	10	8-15	Sisham			
320	292-294	N	6.81	40	10	8-15	Sisham			
321	292-294	N	8.90	40	10	8-15	Sisham			
322	292-294	N	8.64	40	10	8-15	Sisham			
323	292-294	N	3.93	25	10	8-15	Sisham			
324	292-294	N	4.71	30	10	8-15	Sisham			
325	292-294	N	3.67	30	10	8-15	Sisham			
326	292-294	N	4.45	30	10	8-15	Sisham			
327	292-294	N	6.55	40	10	8-15	Sisham			
328	292-294	N	4.97	25	10	8-15	Sisham			
329	292-294	N	3.67	25	10	8-15	Sisham			
330	292-294	N	3.67	25	10	8-15	Sisham			
331	292-294	N	3.40	25	10	8-15	Sisham			
332	292-294	N	3.40	20	10	8-15	Sisham			
333	292-294	N	6.81	35	10	8-15	Sisham			
334	292-294	N	6.55	35	10	8-15	Sisham			
335	292-294	N	3.40	25	10	8-15	Sisham			
336	292-294	N	6.02	25	10	8-15	Sisham			
337	292-294	N	4.71	30	10	8-15	Sisham			
338	292-294	N	3.40	30	10	8-15	Sisham			
339	292-294	N	3.93	25	10	8-15	Kavath			
340	292-294	N	5.24	30	10	8-15	Sisham			
341	292-294	N	4.71	25	10	8-15	Sisham			
342	292-294	N	6.81	40	10	8-15	Sisham			
343	292-294	N	6.81	45	10	8-15	Sisham			
344	292-294	N	6.55	35	10	8-15	Sisham			
345	292-294	N	4.45	30	10	8-15	Sisham			
346	292-294	N	4.19	20	10	8-15	Sisham			
347	292-294	N	4.19	20	10	8-15	Karanj			
348	292-294	N	7.07	30	10	8-15	Sisham			
349	292-294	N	9.42	35	10	8-15	Sisham			
350	292-294	N	3.14	25	10	8-15	Sisham			
351	292-294	N	9.16	40	10	8-15	Sisham			
352	292-294	N	3.14	25	10	8-15	Sisham			
353	292-294	N	7.07	30	10	8-15	Sisham			
354	292-294	N	5.24	30	10	8-15	Sisham			
355	292-294	N	6.28	30	10	8-15	Sisham			
356	292-294	N	3.40	25	10	8-15	Sisham			
357	292-294	N	8.38	25	10	8-15	Sisham			
358	292-294	N	8.12	35	10	8-15	Sisham			
359	292-294	N	3.67	20	10	8-15	Sisham			
360	292-294	N	6.02	30	10	8-15	Sisham			

Detailed Statement of trees Suitable for Transpalntation										
Package IB(250.500 to 307.500)										
Sr	Chain -		Tree			RoadSide	Tree	Forest		
No	Age	Side	Girth	Hight	Age	Distance	Species	No	Remark	
	Kms	N/S		ft	Yrs	Mtrs				
1	2	3	4.00	5	6	7	8	9	10	
361	292-294	N	3.67	25	10	8-15	Sisham			
362	292-294	N	3.93	25	10	8-15	Sisham			
363	292-294	N	8.12	40	10	8-15	Sisham			
364	292-294	N	7.85	30	10	8-15	Sisham			
365	292-294	N	7.59	35	10	8-15	Sisham			
366	292-294	N	4.71	35	10	8-15	Sisham			
367	292-294	N	7.07	35	10	8-15	Sisham			
368	292-294	N	3.67	30	10	8-15	Sisham			
369	292-294	N	5.24	30	10	8-15	Sisham			
370	292-294	N	8.64	30	10	8-15	Sisham			
371	292-294	N	9.42	40	10	8-15	Sisham			
372	292-294	N	7.33	46	10	8-15	Sisham			
373	292-294	N	9.42	40	10	8-15	Sisham			
374	292-294	N	4.97	40	10	8-15	Sisham			
375	292-294	N	6.55	35	10	8-15	Sisham			
376	292-294	N	3.40	25	10	8-15	Sisham			
377	292-294	N	4.71	25	10	8-15	Sisham			
378	292-294	N	5.76	20	10	8-15	Cassia			
379	292-294	N	6.28	30	10	8-15	Sisham			
380	292-294	N	4.19	25	10	8-15	Karanj			
381	292-294	N	5.76	30	10	8-15	Sisham			
382	292-294	N	5.24	30	10	8-15	Sisham			
383	292-294	N	5.50	35	10	8-15	Sisham			
384	292-294	N	8.64	35	10	8-15	Sisham			
385	292-294	N	4.71	35	10	8-15	Sisham			
386	292-294	N	4.97	35	10	8-15	Sisham			
387	292-294	N	4.97	35	5	8-15	Sisham			
388	292-294	N	7.33	40	10	8-15	Sisham			
389	292-294	N	4.19	30	10	8-15	Sisham			
390	292-294	N	4.71	30	10	8-15	Sisham			
391	292-294	N	5.76	30	10	8-15	Sisham			
392	292-294	N	5.76	30	10	8-15	Sisham			
393	292-294	N	7.59	40	10	8-15	Sisham			
394	292-294	N	3.93	25	10	8-15	Sisham			
395	292-294	N	3.67	25	10	8-15	Sisham			
396	292-294	N	3.40	25	10	8-15	Sisham			
397	292-294	N	8.38	30	10	8-15	Sisham			
398	292-294	N	7.59	30	10	8-15	Sisham			
399	292-294	N	5.24	30	10	8-15	Sisham			
400	292-294	N	6.28	30	10	8-15	Sisham			
401	292-294	N	6.28	40	10	8-15	Sisham			
402	292-294	N	3.40	30	10	8-15	Sisham			
403	292-294	N	4.45	25	10	8-15	Sisham			
404	292-294	N	3.67	25	10	8-15	Sisham			
405	292-294	N	4.19	30	10	8-15	Sisham			

Detailed Statement of trees Suitable for Transplantation										
Package IB(250.500 to 307.500)										
Sr	Chain -		Tree			RoadSide	Tree	Forest		
No	Age	Side	Girth	Hight	Age	Distance	Species	No	Remark	
	Kms	N/S		ft	Yrs	Mtrs				
1	2	3	4.00	6	6	7	8	9	10	
406	292-294	N	3.40	25	10	8-15	Sisham			
407	292-294	N	3.67	25	10	8-15	Sisham			
408	292-294	N	3.40	20	10	8-15	Sisham			
409	292-294	N	3.67	20	10	8-15	Sisham			
410	292-294	N	4.45	25	10	8-15	Sisham			
411	292-294	N	3.40	20	10	8-15	Sisham			
412	292-294	N	3.67	20	10	8-15	Sisham			
413	294-295	N	4.19	25	10	8-15	Sisham			
414	294-295	N	3.40	25	5	8-15	Sisham			
415	294-295	N	4.19	25	5	8-15	Sisham			
416	294-295	N	3.40	25	5	8-15	Sisham			
417	294-295	N	3.40	25	5	8-15	Sisham			
418	294-295	N	5.76	25	10	8-15	Karanj			
419	294-295	N	4.71	25	10	8-15	Sisham			
420	294-295	N	7.33	40	10	8-15	Sisham			
421	294-295	N	8.90	40	10	8-15	Sisham			
422	294-295	N	3.14	20	10	8-15	Sisham			
423	294-295	N	3.40	25	10	8-15	Sisham			
424	294-295	N	3.93	25	10	8-15	Sisham			
425	294-295	N	5.50	25	10	8-15	Sisham			
426	294-295	N	6.55	25	10	8-15	Sisham			
427	294-295	N	6.81	35	10	8-15	Sisham			
428	294-295	N	7.07	35	10	8-15	Sisham			
429	294-295	N	6.81	35	10	8-15	Sisham			
430	294-295	N	7.85	35	10	8-15	Sisham			
431	294-295	N	9.69	35	10	8-15	Sisham			
432	294-295	N	8.64	40	10	8-15	Sisham			
433	294-295	N	7.07	35	10	8-15	Sisham			
434	294-295	N	7.07	40	10	8-15	Sisham			
435	294-295	N	8.12	40	10	8-15	Sisham			
436	294-295	N	7.59	40	10	8-15	Sisham			
437	294-295	N	5.76	35	10	8-15	Sisham			
438	294-295	N	6.55	35	10	8-15	Sisham			
439	294-295	N	4.71	30	10	8-15	Sisham			
440	294-295	N	4.71	30	10	8-15	Sisham			
441	294-295	N	5.24	25	10	8-15	Karanj			
442	294-295	N	7.33	35	10	8-15	Sisham			
443	294-295	N	4.45	30	10	8-15	Sisham			
444	294-295	N	6.55	30	10	8-15	Sisham			
445	294-295	N	6.02	35	10	8-15	Sisham			
446	294-295	N	8.90	35	10	8-15	Sisham			
447	294-295	N	7.33	35	10	8-15	Sisham			
448	294-295	N	8.12	40	10	8-15	Sisham			
449	294-295	N	8.12	40	10	8-15	Sisham			
450	294-295	N	6.02	35	10	8-15	Sisham			

Detailed Statement of trees Suitable for Transplantation									
Package IB(260.500 to 307.500)									
Sr	Chain -		Tree			RoadSide Tree	Forest		
No	Age	Side	Girth	Height	Age	Distance	Species	No	Remark
	Kms	N/S	4.00	ft	Yrs	Mtrs	8	9	10
451	294-295	N	4.71	25	10	8-15	Sisham		
452	294-295	N	5.50	35	10	8-15	Sisham		
453	294-295	N	4.45	25	10	8-15	Sisham		
454	294-295	N	4.71	25	10	8-15	Sisham		
455	294-295	N	5.76	30	10	8-15	Sisham		
456	294-295	N	5.50	30	10	8-15	Sisham		
457	294-295	N	7.59	30	10	8-15	Sisham		
458	296-299	N	5.24	25	10	8-15	Jamun		
459	296-299	N	4.45	20	10	8-15	Jamun		
460	296-299	N	6.02	25	10	8-15	Jamun		
461	296-299	N	6.02	25	10	8-15	Jamun		
462	296-299	N	6.28	25	10	8-15	Jamun		
463	296-299	N	6.28	25	10	8-15	Jamun		
464	296-299	N	6.81	25	10	8-15	Jamun		
465	296-299	N	4.97	25	10	8-15	Jamun		
466	296-299	N	6.28	25	10	8-15	Jamun		
467	296-299	N	4.45	25	15	8-15	Neem		
468	296-299	N	5.24	30	15	8-15	Neem		
469	296-299	N	4.97	30	10	8-15	Sisham		
470	296-299	N	6.28	30	10	8-15	Sisham		
471	296-299	N	4.45	30	15	8-15	Neem		
472	296-299	N	5.76	30	10	8-15	Sisham		
473	296-299	N	4.45	30	15	8-15	Neem		
474	296-299	N	6.55	30	15	8-15	Neem		
475	296-299	N	4.71	30	15	8-15	Neem		
476	296-299	N	6.55	30	15	8-15	Neem		
477	296-299	N	4.71	30	15	8-15	Neem		
478	296-299	N	4.71	35	5	8-15	Sisham		
479	296-299	N	3.93	30	10	8-15	Sisham		
480	296-299	N	6.02	30	10	8-15	Sisham		
481	296-299	N	3.40	25	10	8-15	Neem		
482	296-299	N	4.19	25	10	8-15	Sisham		
483	296-299	N	5.50	40		8-15	Sisham		
484	296-299	N	3.67	25	5	8-15	Sisham		
485	296-299	N	4.97	25	5	8-15	Sisham		
486	296-299	N	5.24	30	5	8-15	Sisham		
487	296-299	N	5.24	40	5	8-15	Sisham		
488	296-299	N	3.67	25	5	8-15	Sisham		
489	296-299	N	6.55	40	5	8-15	Sisham		
490	296-299	N	5.24	25	5	8-15	Sisham		
491	299-300	N	3.93	20	15	8-15	Karanj		
492	299-300	N	3.67	30	15	8-15	Sisham		
493	299-300	N	3.93	30	15	8-15	Sisham		
494	299-300	N	4.19	30	15	8-15	Sisham		
495	299-300	N	3.67	30	15	8-15	Mango		

Detailed Statement of trees Suitable for Transpalntation										
Package IB(250.500 to 307.500)										
Sr	Chain -		Tree			RoadSide	Tree	Forest		
No	Age	Side	Girth	Hight	Age	Distance	Species	No	Remark	
	Kms	N/S		ft	Yrs	Mtrs				
1	2	3	4.00	5	6	7	8	9	10	
496	299-300	N	3.40	30	15	8-15	Sisham			
497	299-300	N	4.19	30	15	8-15	Sisham			
498	299-300	N	4.97	30	15	8-15	Karanj			
499	299-300	N	6.02	40	15	8-15	Sisham			
500	299-300	N	5.50	40	15	8-15	Sisham			
501	299-300	N	4.19	25	15	8-15	Sisham			
502	299-300	N	3.93	25	15	8-15	Sisham			
503	299-300	N	4.19	25	15	8-15	Mango			
504	299-300	N	3.93	30	10	8-15	Sisham			
505	299-300	N	3.67	30	10	8-15	Sisham			
506	299-300	N	4.45	25	10	8-15	Sisham			
507	299-300	N	4.19	25	10	8-15	Sisham			
508	299-300	N	4.97	25	10	8-15	Sisham			
509	299-300	N	3.40	25	10	8-15	Mango			
510	299-300	N	5.24	30	15	8-15	Sisham			
511	299-300	N	4.71	30	15	8-15	Sisham			
512	299-300	N	3.67	30	15	8-15	Karanj			
513	299-300	N	3.67	30	15	8-15	Sisham			
514	299-300	N	3.67	30	15	8-15	Sisham			
515	299-300	N	4.45	30	15	8-15	Sisham			
516	299-300	N	3.67	30	15	8-15	Sisham			
517	299-300	N	3.14	30	15	8-15	Sisham			
518	299-300	N	4.45	30	15	8-15	Sisham			
519	299-300	N	4.45	30	15	8-15	Sisham			
520	299-300	N	4.19	30	15	8-15	Sisham			
521	299-300	N	5.24	35	10	8-15	Sisham			
522	299-300	N	6.81	35	10	8-15	Sisham			
523	299-300	N	5.24	35	10	8-15	Sisham			
524	299-300	N	3.40	35	10	8-15	Sisham			
525	299-300	N	5.24	35	10	8-15	Sisham			
526	299-300	N	4.97	35	10	8-15	Sisham			
527	300-301	N	4.19	35	15	8-15	Sisham			
528	300-301	N	3.67	30	15	8-15	Sisham			
529	300-301	N	5.50	30	15	8-15	Sisham			
530	300-301	N	4.45	30	15	8-15	Sisham			
531	300-301	N	4.19	30	15	8-15	Sisham			
532	300-301	N	3.40	30	15	8-15	Sisham			
533	300-301	N	3.40	30	15	8-15	Sisham			
534	300-301	N	4.97	30	15	8-15	Sisham			
535	300-301	N	4.71	30	15	8-15	Sisham			
536	300-301	N	3.40	25	10	8-15	Sisham			
537	300-301	N	4.97	30	10	8-15	Sisham			
538	300-301	N	3.40	30	10	8-15	Sisham			
539	300-301	N	4.19	30	15	8-15	Sisham			
540	300-301	N	3.67	30	15	8-15	Sisham			

Detailed Statement of Suitable Trees for Transplantation Chainagewise									
Package IB (265 Kms- 330 Kms)									
Sr	Chain -					roadside		Forest	
No	Age	Side	Girth	Hight	Age	Distance	Species	No.	Remark
	Kms	N/S	ft	ft	Yrs	Mtrs			
1	2	3	5	6	7	8	9	10	
541	300-301	N	4.19	35	10	8	Shisham		
542	300-301	N	4.45	35	10	8	Shisham		
543	308.000	N	3.66	40	14	10	Jamun		
544	308.000	N	3.66	50	13	10	Jamun		
545	308.000	N	3.66	50	12	10	Jamun		
546	308.000	N	3.66	50	12	10	Jamun		
547	308.000	N	3.14	50	13	10	Emli		
548	308.000	N	3.14	50	11	10	Sisam		
549	308.000	N	3.66	50	15	10	Jamun		
550	308.000	N	3.66	40	12	10	Jamun		
551	308.000	N	3.66	40	15	10	Jamun		
552	308.000	N	3.66	40	15	10	Jamun		
553	308.000	N	3.66	40	15	10	Jamun		
554	308.000	N	3.66	40	15	10	Jamun		
555	308.000	N	3.66	40	15	10	Jamun		
556	308.000	N	3.66	40	15	10	Jamun		
557	308.000	N	6.28	50	22	10	Jamun		
558	308.000	N	6.28	50	22	10	Jamun		
559	308.000	N	5.23	50	19	10	Jamun		
560	308.000	N	5.23	50	19	10	Jamun		
561	308.000	N	3.40	50	14	10	Jamun		
562	308.000	N	3.14	50	13	10	Jamun		
563	308.000	N	3.66	50	12	10	Jamun		
564	308.000	N	3.66	50	12	10	Jamun		
565	308.000	N	3.66	45	12	10	Sisam		
566	308.000	N	3.66	45	12	10	Sisam		
567	308.000	N	3.93	45	14	10	Sisam		
568	308.000	N	3.14	45	10	10	Jamun		
569	308.000	N	4.19	45	18	10	Jamun		
570	308.000	N	3.93	50	18	10	Mango		
571	308.000	N	3.93	50	17	10	Mango		
572	309.000	N	3.93	50	17	10	Mango		
573	309.000	N	4.71	50	21	10	Jamun		
574	309.000	N	3.93	50	16	10	Mango		
575	309.000	N	3.93	45	16	10	Jamun		
576	309.000	N	4.19	55	16	10	Jamun		
577	309.000	N	3.93	55	14	10	Jamun		
578	309.000	N	3.14	50	13	10	Jamun		
579	309.000	N	5.23	50	21	10	Jamun		
580	309.000	N	4.97	40	20	10	Jamun		
581	309.000	N	4.97	40	22	10	Jamun		
582	309.000	N	4.97	40	21	10	Jamun		
583	309.000	N	4.97	40	21	10	Jamun		
584	309.000	N	4.97	40	21	10	Jamun		
585	309.000	N	4.97	40	21	10	Jamun		
586	309.000	N	3.40	40	14	10	Jamun		
587	309.000	N	3.66	45	15	10	Jamun		
588	309.000	N	4.97	45	19	10	Jamun		
589	309.000	N	4.97	45	20	10	Jamun		
590	309.000	N	4.71	45	19	10	Jamun		
591	309.000	N	4.71	45	19	10	Jamun		
592	309.000	N	3.93	45	16	10	Jamun		
593	309.000	N	4.71	30	21	10	Jamun		
594	309.000	N	4.71	30	21	10	Jamun		
595	309.000	N	4.71	30	21	8	Jamun		
596	309.000	N	4.71	30	21	8	Jamun		
597	309.000	N	4.71	30	21	10	Jamun		
598	309.000	N	4.71	30	21	10	Jamun		

Detailed Statement of trees Suitable for TranspaIntation									
Package IB(250.500 to 307.500)									
Sr	Chain -		Tree			RoadSide	Tree	Forest	
No	Age	Side	Girth	Hight	Age	Distance	Species	No	Remark
	Kms	N/S		ft	Yrs	Mtrs			
1	2	3	4.00	5	6	7	8	9	10
541	300-301	N	4.19	35	10	8-15	Sisham		
542	300-301	N	4.45	35	10	8-15	Sisham		

Detailed Statement of trees Suitable for Transpalntation

Package IC(321.10 to 393.00)

No	Chain -		Tree			RoadSide	Tree	Forest	Remark
	Age	Side	Girth	Height	Age	Distance	Species	No	
	Kms	N/S	4.00	ft	Yrs	Mtrs	8	9	
1	2	3	4.00	5	6	7	8	9	10
1	327-328	S	4.97	25	20	8-15	Shisam		
2	327-328	S	3.93	25	16	8-15	Shisam		
3	327-328	S	3.14	25	13	8-15	Shisam		
4	327-328	S	3.14	25	13	8-15	Shisam		
5	327-328	S	3.40	25	14	8-15	Shisam		
6	327-328	S	4.19	25	17	8-15	Shisam		
7	327-328	S	4.19	30	17	8-15	Shisam		
8	327-328	S	4.97	40	20	8-15	Shisam		
9	327-328	S	4.97	40	20	8-15	Shisam		
10	327-328	S	4.71	40	19	8-15	Shisam		
11	327-328	S	4.97	30	20	8-15	Shisam		
12	327-328	S	4.45	30	18	8-15	Shisam		
13	327-328	S	5.76	35	23	8-15	Shisam		
14	327-328	S	6.81	35	27	8-15	Shisam		
15	327-328	S	3.40	25	14	8-15	Cassia		
16	327-328	S	3.67	25	15	8-15	Cassia		
17	327-328	S	3.40	25	14	8-15	Cassia		
18	327-328	S	4.19	30	17	8-15	Shisam		
19	327-328	S	3.93	30	16	8-15	Shisam		
20	327-328	S	3.40	20	14	8-15	Cassia		
21	327-328	S	7.59	35	30	8-15	Shisam		
22	327-328	S	4.71	20	19	8-15	Shisam		
23	327-328	S	9.42	40	38	8-15	Shisam		
24	327-328	S	5.50	30	22	8-15	Shisam		
25	327-328	S	5.76	25	23	8-15	Neem		
26	327-328	S	9.42	40	38	8-15	Shisam		
27	327-328	S	3.67	30	15	8-15	Mango		
28	327-328	S	5.50	25	22	8-15	Neem		
29	327-328	S	3.93	20	16	8-15	Neem		
30	327-328	S	5.76	40	23	8-15	Shisam		
31	327-328	S	3.67	20	15	8-15	Shisam		
32	327-328	S	4.71	25	19	8-15	Shisam		
33	327-328	S	3.40	20	14	8-15	Cassia		
34	327-328	S	8.90	40	36	8-15	Shisam		
35	327-328	S	3.14	20	13	8-15	Shisam		
36	327-328	S	4.45	30	18	8-15	Shisam		
37	327-328	S	4.19	30	17	8-15	Mango		
38	327-328	S	6.81	35	27	8-15	Mango		
39	328-329	S	9.42	40	38	8-15	Shisam		
40	328-329	S	3.93	25	16	8-15	Cassia		
41	328-329	S	3.40	25	14	8-15	Cassia		
42	328-329	S	4.19	25	17	8-15	Cassia		
43	328-329	S	5.50	25	22	8-15	Cassia		
44	328-329	S	3.67	20	15	8-15	Shisam		
45	328-329	S	3.40	25	14	8-15	Shisam		

Detailed Statement of trees Suitable for Transpalntation

Package IC(321.10 to 393.00)

No	Km -	Side	Tree			RoadSide	Tree	Forest	Remark
			Girth	Height	Age	Distance	Species	No	
	2	3	4.00	5	6	7	8	9	10
	Kms	N/S		ft	Yrs	Mtrs			
328-329	S	3.40	25	14	8-15	Shisam			
328-329	S	4.97	35	20	8-15	Mango			
328-329	S	6.28	35	25	8-15	Mango			
328-329	S	4.97	35	20	8-15	Shisam			
328-329	S	4.71	35	19	8-15	Neem			
328-329	S	3.67	30	15	8-15	Neem			
328-329	S	5.50	30	22	8-15	Shisam			
328-329	S	6.28	30	25	8-15	Shisam			
328-329	S	4.19	25	17	8-15	Neem			
328-329	S	7.59	40	30	8-15	Shisam			
328-329	S	7.33	35	29	8-15	Neem			
328-329	S	6.02	40	24	8-15	Mango			
328-329	S	7.07	40	28	8-15	Shisam			
328-329	S	4.71	25	19	8-15	Mango			
328-329	S	3.67	30	15	8-15	Shisam			
328-329	S	4.71	30	19	8-15	Shisam			
328-329	S	7.59	35	30	8-15	Shisam			
328-329	S	7.59	35	30	8-15	Shisam			
328-329	S	9.42	40	38	8-15	Shisam			
328-329	S	4.19	30	17	8-15	Mango			
328-329	S	3.93	30	16	8-15	Mango			
328-329	S	4.45	35	18	8-15	Shisam			
328-329	S	4.71	20	19	8-15	Mango			
328-329	S	6.55	30	26	8-15	Neem			
328-329	S	6.28	40	25	8-15	Pipal			
328-329	S	6.28	30	25	8-15	Neem			
328-329	S	3.93	40	16	8-15	Shisam			
328-329	S	4.71	40	19	8-15	Shisam			
328-329	S	3.40	30	14	8-15	Mango			
328-329	S	4.97	30	20	8-15	Mango			
328-329	S	4.19	30	17	8-15	Shisam			
328-329	S	7.07	30	28	8-15	Shisam			
328-329	S	3.67	25	15	8-15	Shisam			
328-329	S	3.67	20	15	8-15	Cassia			
328-329	S	3.14	20	13	8-15	Cassia			
328-329	S	3.67	25	15	8-15	Shisam			
328-329	S	6.55	40	26	8-15	Shisam			
328-329	S	5.24	35	21	8-15	Shisam			
328-329	S	3.40	20	14	8-15	Cassia			
328-329	S	6.28	40	25	8-15	Shisam			
328-329	S	4.19	20	17	8-15	Cassia			
328-329	S	3.40	20	14	8-15	Cassia			
328-329	S	4.97	20	20	8-15	Cassia			
328-329	S	3.40	20	14	8-15	Cassia			
328-329	S	6.81	40	27	8-15	Shisam			

Detailed Statement of trees Suitable for Transpalntation									
Package IC(321.10 to 393.00)									
Sr	Chain -		Tree			RoadSide	Tree	Forest	
No	Age	Side	Girth	Hight	Age	Distance	Species	No	Remark
	Kms	N/S		ft	Yrs	Mtrs			
1	2	3	4.00	5	6	7	8	9	10
91	328-329	S	3.67	20	15	8-15	Neem		
92	328-329	S	3.40	20	14	8-15	Neem		
93	328-329	S	4.45	40	18	8-15	Shisam		
94	328-329	S	4.19	25	17	8-15	Neem		
95	328-329	S	5.24	50	21	8-15	Shisam		
96	328-329	S	3.67	20	15	8-15	Shisam		
97	328-329	S	5.76	40	23	8-15	Shisam		
98	328-329	S	7.07	40	28	8-15	Shisam		
99	328-329	S	4.45	40	18	8-15	Shisam		
100	329-330	S	4.45	30	18	8-15	Mango		
101	329-330	S	3.14	25	13	8-15	Karanj		
102	329-330	S	4.19	25	17	8-15	Karanj		
103	329-330	S	5.76	25	23	8-15	Karanj		
104	329-330	S	4.71	25	19	8-15	Karanj		
105	329-330	S	5.76	25	23	8-15	Karanj		
106	329-330	S	3.14	25	13	8-15	Karanj		
107	329-330	S	3.14	25	13	8-15	Karanj		
108	329-330	S	3.40	25	14	8-15	Cassia		
109	329-330	S	3.67	25	15	8-15	Cassia		
110	329-330	S	6.28	25	25	8-15	Mango		
111	329-330	S	3.67	30	15	8-15	Shisam		
112	329-330	S	4.19	30	17	8-15	Mango		
113	329-330	S	3.67	25	15	8-15	Neem		
114	329-330	S	3.93	25	16	8-15	Neem		
115	329-330	S	6.28	35	25	8-15	Mango		
116	329-330	S	3.14	20	13	8-15	Cassia		
117	329-330	S	3.67	25	15	8-15	Shisam		
118	329-330	S	4.19	20	17	8-15	Cassia		
119	329-330	S	4.71	25	19	8-15	Mango		
120	329-330	S	7.33	40	29	8-15	Mango		
121	329-330	S	6.02	40	24	8-15	Mango		
122	329-330	S	6.02	35	24	8-15	Mango		
123	329-330	S	5.24	35	21	8-15	Karanj		
124	329-330	S	3.40	25	14	8-15	Shisam		
125	329-330	S	6.28	25	25	8-15	Cassia		
126	329-330	S	6.28	20	25	8-15	Cassia		
127	329-330	S	8.38	40	34	8-15	Mango		
128	329-330	S	3.40	30	14	8-15	Mango		
129	329-330	S	5.24	35	21	8-15	Mango		
130	329-330	S	3.14	35	13	8-15	Neem		
131	329-330	S	6.28	30	25	8-15	Mango		
132	329-330	S	6.81	40	27	8-15	Mango		
133	329-330	S	4.45	35	18	8-15	Shisam		
134	329-330	S	6.81	35	27	8-15	Mango		
135	329-330	S	3.93	25	16	8-15	Mango		

Detailed Statement of trees Suitable for Transpalntation										
Package IC(321.10 to 393.00)										
Sr	Chain -		Tree			RoadSide	Tree	Forest		
No	Age	Side	Girth	Height	Age	Distance	Species	No	Remark	
	Kms	N/S		ft	Yrs	Mtrs				
1	2	3	4.00	5	6	7	8	9	10	
136	329-330	S	5.50	25	22	8-15	Mango			
137	329-330	S	3.67	25	15	8-15	Cassia			
138	329-330	S	4.19	25	17	8-15	Jamun			
139	329-330	S	7.33	30	29	8-15	Jamun			
140	329-330	S	7.33	35	29	8-15	Jamun			
141	330-331	S	8.38	35	34	8-15	Jamun			
142	330-331	S	8.12	35	32	8-15	Jamun			
143	330-331	S	7.59	35	30	8-15	Jamun			
144	330-331	S	8.64	35	35	8-15	Jamun			
145	330-331	S	7.33	25	29	8-15	Cassia			
146	330-331	S	3.67	30	15	8-15	Shisam			
147	330-331	S	7.59	30	30	8-15	Jamun			
148	330-331	S	6.81	30	27	8-15	Jamun			
149	330-331	S	6.28	30	25	8-15	Jamun			
150	330-331	S	4.19	30	17	8-15	Jamun			
151	330-331	S	3.93	30	16	8-15	Shisam			
152	330-331	S	6.81	30	27	8-15	Jamun			
153	330-331	S	6.55	30	26	8-15	Jamun			
154	330-331	S	4.71	30	19	8-15	Jamun			
155	330-331	S	6.81	35	27	8-15	Shisam			
156	330-331	S	6.81	35	27	8-15	Jamun			
157	330-331	S	3.40	25	14	8-15	Shisam			
158	330-331	S	8.38	40	34	8-15	Shisam			
159	330-331	S	3.67	20	15	8-15	Cassia			
160	330-331	S	3.67	20	15	8-15	Cassia			
161	330-331	S	4.71	25	19	8-15	Mango			
162	330-331	S	5.50	30	22	8-15	Mango			
163	330-331	S	8.38	35	34	8-15	Mango			
164	330-331	S	3.40	25	14	8-15	Cassia			
165	330-331	S	5.24	40	21	8-15	Mango			
166	330-331	S	4.97	40	20	8-15	Mango			
167	330-331	S	4.19	35	17	8-15	Shisam			
168	330-331	S	3.14	30	13	8-15	Shisam			
169	330-331	S	6.28	30	25	8-15	Mango			
170	333-332	S	8.64	30	35	8-15	Jamun			
171	333-332	S	7.59	30	30	8-15	Jamun			
172	333-332	S	7.33	30	29	8-15	Jamun			
173	333-332	S	7.07	30	28	8-15	Jamun			
174	333-332	S	6.55	30	26	8-15	Jamun			
175	333-332	S	7.85	30	31	8-15	Jamun			
176	333-332	S	6.55	30	26	8-15	Jamun			
177	333-332	S	8.12	30	32	8-15	Jamun			
178	333-332	S	3.93	30	16	8-15	Jamun			
179	333-332	S	7.07	30	28	8-15	Jamun			
180	333-332	S	7.07	30	28	8-15	Jamun			

Detailed Statement of trees Suitable for Transpalntation										
Package IC(321.10 to 393.00)										
Sr No	Chain - Age	Side	Tree			RoadSide	Tree	Forest	Remark	
	Kms	N/S	Girth	Hight	Age	Distance	Species	No		
1	2	3	4.00	5	6	7	8	9	10	
			ft	Yrs		Mtrs				
181	333-332	S	6.81	30	27	8-15	Jamun			
182	333-332	S	7.85	30	31	8-15	Jamun			
183	333-332	S	7.07	30	28	8-15	Jamun			
184	333-332	S	6.28	30	25	8-15	Mango			
185	342-341	S	7.85	40	31	8-15	Sisham			
186	342-341	S	3.93	40	16	8-15	Raintree			
187	342-341	S	4.45	40	18	8-15	Raintree			
188	342-341	S	4.19	25	17	8-15	Neem			
189	342-341	S	8.38	40	34	8-15	Sisham			
190	342-341	S	8.12	40	32	8-15	Sisham			
191	342-341	S	6.02	45	24	8-15	Arduso			
192	342-341	S	4.45	40	18	8-15	Raintree			
193	342-341	S	4.45	40	18	8-15	Raintree			
194	342-341	S	6.28	40	25	8-15	Raintree			
195	342-341	S	3.93	30	16	8-15	Pipal			
196	342-341	S	4.19	33	17	8-15	Raintree			
197	342-341	S	6.28	40	25	8-15	Sisham			
198	342-341	S	6.28	40	25	8-15	Sisham			
199	342-341	S	5.76	35	23	8-15	Sisham			
200	342-341	S	3.14	30	13	8-15	Raintree			
201	342-341	S	4.71	30	19	8-15	Mango			
202	342-341	S	7.07	30	28	8-15	Mango			
203	342-341	S	4.71	30	19	8-15	Sisham			
204	342-341	S	5.76	30	23	8-15	Raintree			
205	342-341	S	5.24	25	21	8-15	Mango			
206	351-350	N	4.71	25	19	8-15	Sisham			
207	351-350	N	3.67	15	15	8-15	Sisham			
208	351-350	N	4.45	25	18	8-15	Sisham			
209	351-350	N	4.71	25	19	8-15	Sisham			
210	351-350	N	3.93	35	16	8-15	Sisham			
211	351-350	N	5.50	35	22	8-15	Sisham			
212	351-350	N	6.55	35	26	8-15	Sisham			
213	351-350	N	4.19	30	17	8-15	Sisham			
214	351-350	N	4.45	25	18	8-15	Sisham			
215	351-350	N	3.40	25	14	8-15	Sisham			
216	351-350	N	5.50	30	22	8-15	Sisham			
217	351-350	N	3.67	30	15	8-15	Mango			
218	351-350	N	3.40	30	14	8-15	Mango			
219	351-350	N	4.97	30	20	8-15	Sisham			
220	351-350	N	5.50	30	22	8-15	Sisham			
221	351-350	N	6.28	30	25	8-15	Sisham			
222	351-350	N	6.28	30	25	8-15	Sisham			
223	351-350	N	7.07	25	28	8-15	Sisham			
224	351-350	N	3.93	30	16	8-15	Sisham			
225	351-350	N	4.71	25	19	8-15	Sisham			

Detailed Statement of trees Suitable for Transpalntation										
Package IC(321.10 to 393.00)										
Sr No	Chain - Age	Side	Tree			RoadSide	Tree	Forest	Remark	
	Kms	N/S	Girth	Hight	Age	Distance	Species	No		
1	2	3	4.00	5	6	7	8	9	10	
			ft	Yrs	Mtrs					
226	351-350	N	5.76	35	23	8-15	Sisham			
227	351-350	N	4.71	30	19	8-15	Sisham			
228	351-350	N	4.19	30	17	8-15	Sisham			
229	351-350	N	7.33	30	29	8-15	Sisham			
230	351-350	N	5.24	30	21	8-15	Sisham			
231	353-352	S	7.33	35	29	8-15	Sisham			
232	353-352	S	3.93	30	16	8-15	Sisham			
233	353-352	S	3.14	25	13	8-15	Sisham			
234	353-352	S	4.71	35	19	8-15	Neem			
235	353-352	S	5.24	35	21	8-15	Neem			
236	353-352	S	4.45	30	18	8-15	Sisham			
237	353-352	S	4.19	25	17	8-15	Cassia			
238	353-352	S	5.24	25	21	8-15	Sisham			
239	353-352	S	7.59	30	30	8-15	Mango			
240	353-352	S	6.02	30	24	8-15	Sisham			
241	353-352	S	3.93	25	16	8-15	Mango			
242	353-352	S	3.14	25	13	8-15	Neem			
243	353-352	S	5.24	25	21	8-15	Sisham			
244	353-352	S	5.24	30	21	8-15	Sisham			
245	353-352	S	6.55	35	26	8-15	Sisham			
246	353-352	S	3.67	30	15	8-15	Sisham			
247	353-352	S	3.93	30	16	8-15	Sisham			
248	353-352	S	4.45	30	18	8-15	Sisham			
249	353-352	S	6.02	30	24	8-15	Sisham			
250	353-352	S	4.71	25	19	8-15	Sisham			
251	353-352	S	4.71	20	19	8-15	Cassia			
252	353-352	S	4.71	20	19	8-15	Cassia			
253	353-352	S	5.24	30	21	8-15	Sisham			
254	353-352	S	7.07	35	28	8-15	Sisham			
255	353-352	S	4.97	35	20	8-15	Sisham			
256	353-352	S	4.45	20	18	8-15	Cassia			
257	353-352	S	4.71	30	19	8-15	Sisham			
258	353-352	S	4.45	25	18	8-15	Sisham			
259	353-352	S	5.24	35	21	8-15	Sisham			
260	353-352	S	4.97	30	20	8-15	Sisham			
261	353-352	S	6.55	30	26	8-15	Sisham			
262	353-352	S	4.45	30	18	8-15	Sisham			
263	353-352	S	7.85	35	31	8-15	see			
264	353-352	S	5.24	35	21	8-15	see			
265	353-352	S	4.71	35	19	8-15	Raintree			
266	353-352	S	4.71	25	19	8-15	Sisham			
267	353-352	S	4.19	30	17	8-15	Sisham			
268	353-352	S	3.93	30	16	8-15	Cassia			
269	353-352	S	4.19	25	17	8-15	Sisham			
270	353-352	S	5.24	35	21	8-15	Sisham			

Detailed Statement of trees Suitable for Transpalntation									
Package IC(321.10 to 393.00)									
Sr No	Chain -		Tree			RoadSide	Tree	Forest	Remark
	Age	Side	Girth	Hight	Age	Distance	Species	No	
	Kms	N/S	ft	Yrs		Mtrs			
1	2	3	4.00	5	6	7	8	9	10
271	353-352	S	5.76	35	23	8-15	Cassia		
272	353-352	S	4.45	25	18	8-15	Sisham		
273	353-352	S	4.19	30	17	8-15	Sisham		
274	353-352	S	5.50	30	22	8-15	Sisham		
275	353-352	S	6.02	30	24	8-15	Sisham		
276	353-352	S	6.28	30	25	8-15	Sisham		
277	353-352	S	6.28	30	25	8-15	Sisham		
278	353-352	S	6.81	35	27	8-15	Sisham		
279	353-352	S	4.19	35	17	8-15	Sisham		
280	382-381	S	3.40	25	14	8-15	Shisam		
281	382-381	S	3.67	25	15	8-15	Shisam		
282	382-381	S	3.93	25	16	8-15	Neem		
283	382-381	S	3.14	25	13	8-15	Shisam		
284	382-381	S	3.67	25	15	8-15	Shisam		
285	382-381	S	5.50	30	22	8-15	Shisam		
286	382-381	S	4.71	30	19	8-15	Shisam		
287	382-381	S	5.24	40	21	8-15	Arjun		
288	382-381	S	5.24	40	21	8-15	Arjun		
289	382-381	S	5.76	40	23	8-15	Arjun		
290	382-381	S	4.45	40	18	8-15	Arjun		
291	382-381	S	4.97	40	20	8-15	Shisam		
292	382-381	S	4.97	30	20	8-15	Shisam		
293	382-381	S	6.28	35	25	8-15	Arjun		
294	382-381	S	4.19	35	17	8-15	Arjun		
295	382-381	S	9.69	35	39	8-15	Arjun		
296	382-381	S	8.64	30	35	8-15	Jamun		
297	382-381	S	7.59	30	30	8-15	Jamun		
298	382-381	S	7.85	35	31	8-15	Jamun		
299	382-381	S	6.28	35	25	8-15	Jamun		
300	382-381	S	6.02	35	24	8-15	Jamun		
301	382-381	S	8.12	35	32	8-15	Jamun		
302	382-381	S	6.28	35	25	8-15	Jamun		
303	382-381	S	6.55	35	26	8-15	Jamun		
304	382-381	S	5.76	35	23	8-15	Shisam		
305	382-381	S	7.59	30	30	8-15	Jamun		
306	382-381	S	7.07	30	28	8-15	Jamun		
307	382-381	S	4.19	25	17	8-15	Jamun		
308	382-381	S	7.59	35	30	8-15	Jamun		
309	382-381	S	7.85	35	31	8-15	Jamun		
310	382-381	S	7.33	35	29	8-15	Jamun		
311	382-381	S	7.85	35	31	8-15	Jamun		
312	382-381	S	7.07	35	28	8-15	Jamun		
313	382-381	S	6.81	30	27	8-15	Jamun		
314	382-381	S	8.12	30	32	8-15	Jamun		
315	382-381	S	7.33	30	29	8-15	Jamun		

Detailed Statement of trees Suitable for Transplantation										
Package IC(321.10 to 393.00)										
Sr	Chain -	Tree				RoadSide	Tree	Forest		
No	Age	Side	Girth	Hight	Age	Distance	Species	No	Remark	
	Kms	N/S	ft	Yrs	Mtrs					
1	2	3	4.00	5	6	7	8	9	10	
316	382-381	S	7.33	30	29	8-15	Jamun			
317	382-381	S	6.02	30	24	8-15	Jamun			
318	382-381	S	6.28	30	25	8-15	Jamun			
319	382-381	S	6.28	30	25	8-15	Jamun			
320	382-381	S	4.97	30	20	8-15	Jamun			
321	382-381	S	6.55	30	26	8-15	Jamun			
322	382-381	S	6.81	30	27	8-15	Jamun			
323	382-381	S	6.81	30	27	8-15	Jamun			
324	382-381	S	7.33	30	29	8-15	Jamun			
325	382-381	S	6.81	30	27	8-15	Jamun			
326	382-381	S	6.55	30	26	8-15	Jamun			
327	382-381	S	8.12	30	32	8-15	Jamun			
328	382-381	S	9.69	30	39	8-15	Jamun			
329	382-381	S	8.90	30	36	8-15	Jamun			
330	382-381	S	8.38	40	34	8-15	Shisam			
331	382-381	S	5.24	30	21	8-15	Jamun			
332	382-381	S	7.33	40	29	8-15	Shisam			
333	382-381	S	8.90	40	36	8-15	Shisam			
334	382-381	S	8.64	30	35	8-15	Jamun			
335	383-382	S	4.45	35	18	8-15	Arjun			
336	383-382	S	3.67	35	15	8-15	Arjun			
337	383-382	S	3.40	35	14	8-15	Arjun			
338	383-382	S	4.71	35	19	8-15	Arjun			
339	383-382	S	6.55	30	26	8-15	Shisam			
340	383-382	S	3.40	20	14	8-15	Arjar			
341	383-382	S	4.19	30	17	8-15	Shisam			
342	383-382	S	4.45	30	18	8-15	Shisam			
343	383-382	S	3.93	30	16	8-15	Shisam			
344	383-382	S	4.71	30	19	8-15	Shisam			
345	383-382	S	5.50	35	22	8-15	Karanj			
346	383-382	S	4.19	25	17	8-15	Shisam			
347	383-382	S	4.45	25	18	8-15	Shisam			
348	383-382	S	3.93	25	16	8-15	Shisam			
349	383-382	S	3.40	25	14	8-15	Shisam			
350	383-382	S	3.40	25	14	8-15	Shisam			
351	383-382	S	3.67	25	15	8-15	Shisam			
352	383-382	S	7.85	35	31	8-15	Shisam			
353	383-382	S	3.40	25	14	8-15	Neem			
354	383-382	S	3.67	25	15	8-15	Shisam			
355	383-382	S	3.67	25	15	8-15	Shisam			
356	383-382	S	3.67	30	15	8-15	Shisam			
357	383-382	S	3.67	30	15	8-15	Shisam			
358	383-382	S	3.67	30	15	8-15	Shisam			
359	383-382	S	3.14	30	13	8-15	Shisam			
360	383-382	S	3.93	30	16	8-15	Shisam			

Detailed Statement of trees Suitable for Transpalntation										
Package IC(321.10 to 393.00)										
Sr	Chain -		Tree			RoadSide	Tree	Forest		
No	Age	Side	Girth	Height	Age	Distance	Species	No	Remark	
	Kms	N/S	4.00	ft	Yrs	Mtrs				
1	2	3	4	5	6	7	8	9	10	
361	383-382	S	5.24	30	21	8-15	Shisam			
362	383-382	S	3.67	30	15	8-15	Shisam			
363	383-382	S	3.93	30	16	8-15	Shisam			
364	383-382	S	3.93	30	16	8-15	Shisam			
365	383-382	S	3.93	30	16	8-15	Shisam			
366	383-382	S	6.55	35	26	8-15	Shisam			
367	383-382	S	3.14	20	13	8-15	Shisam			
368	383-382	S	3.40	25	14	8-15	Shisam			
369	383-382	S	6.02	35	24	8-15	Shisam			
370	383-382	S	3.40	25	14	8-15	Shisam			
371	383-382	S	4.19	25	17	8-15	Shisam			
372	383-382	S	3.93	23	16	8-15	Shisam			
373	383-382	S	4.71	25	19	8-15	Shisam			
374	383-382	S	3.14	25	13	8-15	Shisam			
375	383-382	S	3.67	25	15	8-15	Shisam			
376	383-382	S	3.67	25	15	8-15	Shisam			
377	383-382	S	3.67	25	15	8-15	Shisam			
378	383-382	S	6.81	35	27	8-15	Shisam			
379	383-382	S	3.67	20	15	8-15	Mango			
380	383-382	S	9.95	45	40	8-15	Shisam			
381	383-382	S	4.19	25	17	8-15	Mango			
382	383-382	S	4.19	25	17	8-15	Mango			
383	383-382	S	9.42	35	38	8-15	Shisam			
384	383-382	S	3.14	25	13	8-15	Shisam			
385	383-382	S	3.93	25	16	8-15	Shisam			
386	383-382	S	3.93	30	16	8-15	Shisam			
387	383-382	S	4.97	30	20	8-15	Shisam			
388	383-382	S	3.14	30	13	8-15	Shisam			
389	383-382	S	6.28	35	25	8-15	Shisam			
390	383-382	S	9.16	35	37	8-15	Shisam			
391	383-382	S	8.12	35	32	8-15	Shisam			
392	383-382	S	3.40	25	14	8-15	Shisam			
393	383-382	S	4.71	25	19	8-15	Shisam			
394	383-382	S	3.67	20	15	8-15	Shisam			
395	383-382	S	7.85	35	31	8-15	Shisam			
396	383-382	S	6.28	30	25	8-15	Shisam			
397	383-382	S	3.40	20	14	8-15	Shisam			
398	383-382	S	4.97	25	20	8-15	Shisam			
399	383-382	S	3.67	25	15	8-15	Shisam			
400	383-382	S	3.93	25	16	8-15	Shisam			
401	383-382	S	4.19	35	17	8-15	Shisam			
402	383-382	S	4.71	35	19	8-15	Shisam			
403	383-382	S	3.40	35	14	8-15	Shisam			
404	383-382	S	3.93	35	16	8-15	Shisam			
405	383-382	S	4.19	35	17	8-15	Shisam			

Detailed Statement of trees Suitable for Transpalntation										
Package IC(321.10 to 393.00)										
Sr	Chain -		Tree			RoadSide	Tree	Forest		
No	Age	Side	Girth	Hight	Age	Distance	Species	No	Remark	
	Kms	N/S	ft	Yrs		Mtrs				
1	2	3	4.00	5	6	7	8	9	10	
406	383-382	S	4.71	30	19	8-15	Shisam			
407	383-382	S	3.67	30	15	8-15	Shisam			
408	383-382	S	4.19	30	17	8-15	Shisam			
409	383-382	S	4.71	30	19	8-15	Shisam			
410	383-382	S	4.45	30	18	8-15	Shisam			
411	383-382	S	3.93	30	16	8-15	Shisam			
412	383-382	S	4.19	30	17	8-15	Shisam			
413	383-382	S	3.93	30	16	8-15	Shisam			
414	383-382	S	3.67	30	15	8-15	Shisam			
415	383-382	S	4.45	30	18	8-15	Shisam			
416	383-382	S	4.71	30	19	8-15	Shisam			
417	383-382	S	4.19	30	17	8-15	Arjun			
418	383-382	S	4.19	30	17	8-15	Arjun			
419	383-382	S	4.45	25	18	8-15	Shisam			
420	383-382	S	3.40	25	14	8-15	Shisam			
421	383-382	S	4.19	25	17	8-15	Shisam			
422	383-382	S	4.97	25	20	8-15	Shisam			
423	383-382	S	3.14	25	13	8-15	Shisam			
424	383-382	S	4.19	25	17	8-15	Pipal			
425	383-382	S	6.81	50	27	8-15	Shisam			
426	383-382	S	3.40	30	14	8-15	Shisam			
427	383-382	S	3.40	30	14	8-15	Shisam			
428	383-382	S	4.19	25	17	8-15	Shisam			
429	383-382	S	3.14	25	13	8-15	Shisam			
430	383-382	S	3.67	25	15	8-15	Shisam			
431	383-382	S	3.67	30	15	8-15	Shisam			
432	383-382	S	4.19	30	17	8-15	Shisam			
433	383-382	S	4.19	25	17	8-15	Shisam			
434	383-382	S	3.93	25	16	8-15	Shisam			
435	383-382	S	3.93	25	16	8-15	Shisam			
436	383-382	S	4.19	25	17	8-15	Shisam			
437	383-382	S	3.93	25	16	8-15	Shisam			
438	383-382	S	3.14	25	13	8-15	Shisam			
439	383-382	S	4.19	25	17	8-15	Shisam			
440	383-382	S	4.19	25	17	8-15	Shisam			
441	383-382	S	3.93	25	16	8-15	Shisam			
442	383-382	S	3.93	25	16	8-15	Shisam			
443	385-384		4.19	30	17	8-15	Shisam			
444	385-384	S	3.93	30	16	8-15	Shisam			
445	385-384	S	6.55	35	26	8-15	Shisam			
446	385-384	S	8.12	35	32	8-15	Shisam			
447	385-384	S	4.71	30	19	8-15	Shisam			
448	385-384	S	4.19	25	17	8-15	Shisam			
449	385-384	S	7.85	30	31	8-15	Shisam			
450	385-384	S	4.45	30	18	8-15	Shisam			

Detailed Statement of trees Suitable for Transplantation										
Package IC(321.10 to 393.00)										
Sr	Chain -		Tree			RoadSide	Tree	Forest		
No	Age	Side	Girth	Hight	Age	Distance	Species	No	Remark	
	Kms	N/S	ft	Yrs		Mtrs				
1	2	3	4.00	5	6	7	8	9	10	
451	385-384	S	4.19	30	17	8-15	Shisam			
452	385-384	S	8.38	40	34	8-15	Shisam			
453	385-384	S	6.02	35	24	8-15	Shisam			
454	385-384	S	4.97	35	20	8-15	Shisam			
455	385-384	S	3.93	25	16	8-15	Shisam			
456	385-384	S	6.02	30	24	8-15	Shisam			
457	385-384	S	6.28	35	25	8-15	Shisam			
458	385-384	S	5.76	35	23	8-15	Shisam			
459	385-384	S	4.19	30	17	8-15	Shisam			
460	385-384	S	4.19	30	17	8-15	Shisam			
461	385-384	S	5.76	32	23	8-15	Shisam			
462	385-384	S	5.24	5	21	8-15	Shisam			
463	385-384	S	4.71	25	19	8-15	Shisam			
464	385-384	S	4.45	30	18	8-15	Shisam			
465	385-384	S	3.40	30	14	8-15	Shisam			
466	385-384	S	3.40	28	14	8-15	Shisam			
467	385-384	S	3.14	28	13	8-15	Shisam			
468	385-384	S	3.93	28	16	8-15	Shisam			
469	385-384	S	4.71	30	19	8-15	Shisam			
470	385-384	S	3.40	28	14	8-15	Shisam			
471	385-384	S	3.40	28	14	8-15	Shisam			
472	385-384	S	7.33	50	29	8-15	Arjar			
473	385-384	S	7.33	50	29	8-15	Arjar			
474	385-384	S	6.02	30	24	8-15	Shisam			
475	385-384	S	6.02	25	24	8-15	Shisam			
476	385-384	S	4.71	30	19	8-15	Shisam			
477	385-384	S	4.71	30	19	8-15	Shisam			
478	385-384	S	4.19	30	17	8-15	Shisam			
479	385-384	S	4.97	30	20	8-15	Shisam			
480	385-384	S	7.85	35	31	8-15	Shisam			
481	385-384	S	5.50	35	22	8-15	Shisam			
482	385-384	S	4.71	35	19	8-15	Shisam			
483	385-384	S	4.45	50	18	8-15	Shisam			
484	385-384	S	4.97	50	20	8-15	Shisam			
485	385-384	S	4.97	45	20	8-15	Shisam			
486	385-384	S	5.24	35	21	8-15	Shisam			
487	387-386	S	3.67	20	15	8-15	Shisam			
488	387-386	S	3.67	25	15	8-15	Shisam			
489	387-386	S	4.71	30	19	8-15	Shisam			
490	387-386	S	5.50	30	22	8-15	Shisam			
491	387-386	S	4.19	30	17	8-15	Shisam			
492	387-386	S	4.45	25	18	8-15	Shisam			
493	387-386	S	4.71	25	19	8-15	Shisam			
494	387-386	S	4.19	20	17	8-15	Shisam			
495	387-386	S	3.93	20	16	8-15	Shisam			

Detailed Statement of trees Suitable for Transpaintation									
Package IC(321.10 to 393.00)									
Sr	Chain -		Tree			RoadSide	Tree	Forest	
No	Age	Side	Girth	Hight	Age	Distance	Species	No	Remark
	Kms	N/S		ft	Yrs	Mtrs			
1	2	3	4.00	5	6	7	8	9	10
496	387-386	S	5.24	25	21	8-15	Shisam		
497	387-386	S	3.93	25	16	8-15	Shisam		
498	387-386	S	6.81	30	27	8-15	Shisam		
499	387-386	S	3.93	30	16	8-15	Shisam		
500	387-386	S	4.97	30	20	8-15	Shisam		
501	387-386	S	4.19	30	17	8-15	Shisam		
502	387-386	S	4.71	30	19	8-15	Shisam		
503	387-386	S	4.71	30	19	8-15	Shisam		
504	387-386	S	5.24	30	21	8-15	Shisam		
505	387-386	S	4.97	30	20	8-15	Shisam		
506	387-386	S	5.76	40	23	8-15	Shisam		
507	387-386	S	5.24	35	21	8-15	Shisam		
508	387-386	S	5.24	35	21	8-15	Shisam		
509	387-386	S	4.71	35	19	8-15	Shisam		
510	387-386	S	3.93	35	16	8-15	Shisam		
511	387-386	S	5.76	35	23	8-15	Shisam		

Detailed Statement of trees Suitable for Transpalntation									
Package IC(321.10 to 393.00)									
Sr	Chain -		Tree			RoadSide	Tree	Forest	
No	Age	Side	Girth	Hight	Age	Distance	Species	No	Remark
	Kms	N/S		ft	Yrs	Mtrs			
1	2	3	4.00	5	6	7	8	9	10
496	387-386	S	5.24	25	21	8-15	Shisam		
497	387-386	S	3.93	25	16	8-15	Shisam		
498	387-386	S	6.81	30	27	8-15	Shisam		
499	387-386	S	3.93	30	16	8-15	Shisam		
500	387-386	S	4.97	30	20	8-15	Shisam		
501	387-386	S	4.19	30	17	8-15	Shisam		
502	387-386	S	4.71	30	19	8-15	Shisam		
503	387-386	S	4.71	30	19	8-15	Shisam		
504	387-386	S	5.24	30	21	8-15	Shisam		
505	387-386	S	4.97	30	20	8-15	Shisam		
506	387-386	S	5.76	40	23	8-15	Shisam		
507	387-386	S	5.24	35	21	8-15	Shisam		
508	387-386	S	5.24	35	21	8-15	Shisam		
509	387-386	S	4.71	35	19	8-15	Shisam		
510	387-386	S	3.93	35	16	8-15	Shisam		
511	387-386	S	5.76	35	23	8-15	Shisam		

Detailed Statement of Suitable Trees for Transplantation Chainagewise									
Package IC (330Kms- 394 Kms)									
Sr	Chain -					roadside		Forest	
No	Age	Side	Girth	Height	Age	Distance	Species	No.	Remark
1	2	3	ft	5	6	7	8	9	10
512	335 000	S	3.40	45	14	12	Sisam		
513	335 000	S	3.40	40	14	12	Sisam		
514	335.000	S	3.40	45	14	12	Sisam		
515	335.000	N	3.40	40	14	10	Mango		
516	335 000	S	3.66	45	15	10	Mango		
517	335.000	N	3.66	40	15	10	Mango		
518	335.000	S	3.14	50	14	10	Sisam		
519	335.000	N	3.14	50	14	10	Sisam		
520	335.000	N	3.14	55	14	10	Sisam		
521	335 000	N	3.14	40	13	10	Neem		
522	335.000	N	3.40	45	14	10	Neem		
523	335.000	N	3.14	50	13	10	Neem		
524	335.000	N	3.40	45	15	10	Neem		
525	335.000	N	3.14	40	14	10	Neem		
526	335 000	N	3.40	40	16	10	Neem		
527	335.000	N	3.40	35	15	10	Neem		
528	335.000	N	3.40	35	14	10	Neem		
529	335.000	S	3.40	40	15	10	Sisam		
530	335 000	S	3.40	50	14	10	Sisam		
531	335.000	N	3.40	50	15	12	Neem		
532	335.000	N	3.40	45	14	12	Neem		
533	335 000	N	3.14	45	14	10	Neem		
534	335.000	N	3.14	40	14	10	Emli		
535	335.000	S	3.93	40	20	8	Mango		
536	335.000	S	3.40	40	16	8	Mango		
537	335.000	S	3.14	40	10	8	Cassia		
538	335.000	S	3.14	40	8	8	Cassia		
539	335.000	S	3.14	40	9	8	Cassia		
540	335.000	N	3.66	40	15	10	Sisam		
541	335.000	N	3.14	40	12	10	Mango		
542	335.000	N	3.14	40	10	10	Mango		
543	335.000	S	3.66	40	15	10	Mango		
544	335.000	S	3.66	40	16	15	Mango		
545	335.000	N	3.40	40	14	10	Sisam		
546	335.000	N	3.14	40	12	10	Sisam		
547	335.000	S	3.40	40	14	10	Drumsticks		
548	335.000	S	3.66	40	12	10	Mango		
549	335 000	S	3.14	40	8	8	Cassia		
550	335.000	S	3.14	40	9	8	Cassia		
551	335.000	S	3.14	30	8	8	Cassia		
552	335.000	N	3.14	40	15	8	Neem		
553	335.000	N	3.40	35	16	8	Mango		
554	335 000	S	3.14	40	13	8	Sisam		
555	335 000	S	3.40	50	12	10	Sisam		
556	335.000	N	3.14	50	14	8	Mango		
557	335.000	S	3.66	50	16	8	Sisam		
558	335 000	S	3.14	40	9	8	Cassia		
559	335.000	S	3.14	40	8	8	Cassia		
560	335.000	S	3.66	45	13	10	Mango		
561	335.000	S	3.40	45	12	8	Mango		
562	335.000	N	3.66	45	13	8	Mango		
563	335.000	S	3.66	45	14	10	Mango		
564	335.000	S	3.66	45	13	10	Mango		
565	335.000	S	3.66	45	12	10	Mango		
566	335.000	S	3.93	45	15	8	Sisam		
567	335.000	S	3.40	45	13	8	Mango		
568	335.000	S	3.14	45	14	8	Sisam		
569	335.000	S	3.14	35	13	8	Sisam		
570	335.000	N	3.14	30	9	8	Karanj		

571	335 000	N	3.14	30	9	8	Karanj		
572	335 000	S	3.14	35	8	8	Cassia		
573	335 000	S	3.14	38	8	8	Cassia		
574	335 000	S	3.66	40	16	8	Mango		
575	335 000	N	3.40	40	12	8	Mango		
576	335 000	N	3.14	40	16	8	Sisam		
577	335 000	S	3.66	40	18	8	Sisam		
578	335 000	N	3.40	40	19	8	Mango		
579	335 000	S	3.93	35	22	6	Sisam		
580	359 000	S	3.14	40	9	8	Cassia		
581	359 000	S	3.14	55	14	8	Sisam		
582	359 000	S	3.14	45	15	8	Sisam		
583	359 000	S	3.66	50	19	8	Sisam		
584	359 000	S	3.40	50	10	10	Cassia		
585	359 000	S	3.14	55	15	10	Mango		
586	359 000	S	3.66	55	19	10	Mango		
587	359 000	S	3.14	40	14	12	Umbar		
588	359 000	S	3.14	50	19	10	Mango		
589	359 000	S	3.14	50	18	10	Mango		
590	359 000	S	3.66	40	23	10	Mango		
591	359 000	S	3.14	40	8	8	Cassia		
592	359 000	S	3.14	40	9	8	Cassia		
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594	359 000	S	3.14	35	8	8	Cassia		
595	359 000	S	3.14	30	9	8	Cassia		
596	359 000	S	3.14	40	8	8	Cassia		
597	359 000	S	3.14	50	7	8	Cassia		
598	359 000	S	3.14	50	13	12	Sisam		
599	359 000	S	3.14	40	9	8	Cassia		
600	359 000	S	3.14	50	10	8	Cassia		
601	359 000	S	3.14	50	12	12	Sisam		
602	359 000	S	3.14	50	15	12	Sisam		
603	359 000	S	3.14	50	9	8	Cassia		
604	359 000	S	6.54	50	23	8	Sisam		
605	359 000	S	3.14	40	8	8	Cassia		
606	359 000	S	3.14	35	9	8	Cassia		
607	359 000	S	3.14	40	8	8	Cassia		
608	359 000	S	3.14	40	8	8	Cassia		
609	359 000	S	3.14	40	9	8	Cassia		
610	359 000	S	3.66	50	14	12	Sisam		
611	359 000	S	3.14	40	8	8	Cassia		
612	359 000	S	3.14	40	8	8	Cassia		
613	359 000	S	3.14	40	9	8	Cassia		
614	359 000	S	3.66	40	14	12	Mango		
615	359 000	S	3.14	40	8	8	Cassia		
616	359 000	S	3.14	40	9	8	Cassia		
617	359 000	S	3.14	45	8	8	Cassia		
618	370 000	S	3.14	30	8	4	Cassia		
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633	370 000	S	3.14	30	8	8	Cassia		
634	370 000	S	3.14	30	10	8	Sisam		
635	370 000	S	3.14	50	12	8	Sisam		

636	370.000	S	3.14	50	11	8	Sisam		
637	370.000	S	3.14	50	12	7	Sisam		
638	370.000	S	3.14	50	13	8	Sisam		
639	370.000	S	3.14	50	12	8	Sisam		
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646	370.000	S	3.40	50	14	12	Sisam		
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659	370.000	S	3.14	50	13	8	Sisam		
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661	370.000	S	3.40	55	14	8	Sisam		
662	370.000	S	3.40	55	14	8	Sisam		
663	370.000	S	3.14	45	13	10	Sisam		
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739	370.000	S	3.14	50	13	10	Sisam		
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742	371.000	S	3.40	55	12	8	Sisam		
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747	371.000	N	3.14	50	13	8	Sisam		
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760	371.000	S	3.40	50	13	10	Sisam		
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769	371.000	N	3.14	50	13	8	Sisam		
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777	371.000	S	3.14	50	13	8	Sisam		
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781	371.000	N	3.14	50	13	8	Sisam		
782	371.000	N	3.40	55	13	8	Sisam		
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787	371.000	S	3.66	50	13	8	Sisam		
788	371.000	N	3.40	50	13	8	Sisam		
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796	371.000	S	3.14	50	13	8	Sisam		
797	371.000	N	3.14	50	13	8	Sisam		
798	371.000	N	3.14	50	13	10	Sisam		
799	371.000	N	3.14	50	13	6	Sisam		
800	371.000	S	3.14	50	13	6	Sisam		
801	371.000	S	3.14	50	13	6	Sisam		
802	371.000	N	3.14	50	13	6	Sisam		
803	371.000	S	3.40	50	13	8	Sisam		
804	371.000	N	3.40	50	13	8	Sisam		
805	371.000	N	3.14	50	13	8	Sisam		
806	371.000	S	3.14	50	13	8	Sisam		
807	371.000	N	3.14	45	13	12	Sisam		
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812	371.000	N	3.14	50	13	8	Sisam		
813	371.000	S	3.40	50	13	7	Sisam		
814	371.000	S	3.14	45	13	6	Arjun		
815	371.000	S	3.14	40	13	8	Jamun		
816	371.000	S	3.14	50	13	12	Jamun		Cetral Bank Mahouli
817	371.000	S	3.14	50	13	8	Arjun		
818	371.000	S	3.14	50	13	12	Arjun		
819	371.000	S	3.40	50	13	12	Arjun		
820	371.000	S	3.14	50	13	12	Arjun		Mahouli School
821	371.000	S	3.14	50	13	12	Sisam		
822	371.000	S	3.14	40	13	12	Jamun		
823	371.000	S	3.14	40	13	12	Arjun		
824	371.000	N	3.40	50	13	12	Sisam		
825	371.000	N	3.14	45	13	10	Sisam		
826	371.000	S	3.40	45	13	8	Jamun		
827	371.000	S	3.66	50	13	7	Sisam		
828	371.000	N	3.66	50	13	4	Sisam		
829	371.000	N	3.40	50	13	10	Sisam		
830	371.000	N	3.14	50	13	8	Arjun		

831	371.000	N	3.14	50	13	4	Sisam		
832	371.000	S	3.14	45	13	10	Jamun		
833	371.000	S	3.14	50	13	8	Sisam		
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835	371.000	N	3.40	50	13	8	Sisam		
836	371.000	S	3.14	40	13	8	Jamun		
837	371.000	S	3.40	50	13	7	Sisam		
838	371.000	N	3.14	55	13	6	Sisam		
839	371.000	N	3.14	45	13	7	Sisam		
840	371.000	N	3.14	45	13	7	Sisam		
841	371.000	S	3.14	50	13	12	Arjun		
842	371.000	S	3.14	50	13	10	Arjun		
843	371.000	S	3.40	50	13	10	Jamun		
844	371.000	S	3.40	55	13	10	Sisam		
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846	371.000	N	3.14	45	13	8	Sisam		
847	371.000	N	3.14	45	13	8	Sisam		
848	371.000	N	3.14	50	13	4	Sisam		
849	371.000	N	3.14	50	13	4	Sisam		
850	371.000	S	3.14	50	13	4	Sisam		
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857	371.000	S	3.14	45	13	10	Arjun		
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860	371.000	S	3.14	45	13	8	Jamun		
861	371.000	S	3.14	50	13	8	Sisam		
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863	371.000	S	3.14	40	13	12	Arjun		
864	371.000	S	3.14	50	13	7	Sisam		
865	371.000	N	3.14	50	13	6	Sisam		
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867	371.000	N	3.14	40	13	7	Sisam		
868	371.000	S	3.14	40	13	12	Arjun		
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884	371.000	S	3.66	50	13	6	Sisam		
885	371.000	N	3.14	50	13	8	Sisam		
886	371.000	S	3.14	50	13	8	Sisam		
887	371.000	S	3.14	50	13	8	Sisam		
888	371.000	S	3.14	45	13	8	Sisam		
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891	371.000	N	3.14	45	13	10	Sisam		
892	371.000	N	3.66	50	16	12	Mango		
893	371.000	N	3.66	50	16	12	Mango		
894	371.000	N	3.14	45	13	12	Neem		
895	371.000	N	3.66	45	13	10	Sisam		

896	371 000	S	3.66	45	13	8	Sisam		
897	372 000	N	3.93	45	14	10	Sisam		
898	372 000	S	3.66	45	14	10	Sisam		
899	372 000	N	3.14	40	13	10	Sisam		
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901	372 000	N	3.40	50	13	10	Sisam		
902	372 000	N	3.14	50	13	10	Sisam		
903	372 000	N	3.14	50	13	10	Ficus		
904	372 000	N	4.71	50	24	5	Bargad		
905	372 000	S	3.93	50	17	7	Sisam		
906	372 000	S	3.66	50	15	6	Sisam		
907	372 000	N	3.14	30	8	4	Cassia		
908	372 000	S	3.14	30	8	4	Cassia		
909	372 000	S	3.14	30	8	6	Cassia		
910	372 000	S	3.40	45	13	8	Sisam		
911	372 000	S	3.66	50	13	8	Sisam		
912	372 000	S	4.19	50	17	8	Sisam		
913	372 000	S	3.14	30	8	8	Cassia		
914	372 000	S	4.71	55	22	8	Sisam		
915	372 000	N	4.71	55	22	8	Sisam		
916	372 000	N	4.71	55	22	8	Sisam		
917	372 000	S	3.14	30	8	8	Cassia		
918	372 000	N	3.14	30	8	8	Cassia		
919	372 000	S	3.14	55	8	8	Cassia		
920	372 000	S	3.14	35	8	7	Cassia		
921	372 000	S	3.14	35	8	9	Cassia		
922	372 000	S	3.14	35	8	6	Cassia		
923	372 000	S	3.14	40	15	12	Mango		
924	372 000	S	3.14	40	15	12	Mango		
925	372 000	S	3.66	45	15	12	Mango		
926	372 000	S	3.66	45	15	12	Mango		
927	372 000	S	3.40	30	8	4	Cassia		
928	372 000	N	3.14	30	8	4	Cassia		
929	372 000	N	3.14	30	8	4	Cassia		
930	372 000	N	3.40	50	14	6	Sisam		
931	372 000	N	3.93	50	15	6	Sisam		
932	372 000	N	3.14	30	8	4	Cassia		
933	372 000	N	3.14	30	8	4	Cassia		
934	372 000	N	3.14	30	8	4	Cassia		
935	372 000	S	4.19	50	15	10	Sisam		
936	372 000	S	3.93	50	15	10	Sisam		
937	372 000	S	3.93	30	15	10	Sisam		
938	372 000	N	3.14	30	8	4	Cassia		
939	372 000	S	3.93	50	16	8	Sisam		
940	372 000	N	3.66	50	16	8	Sisam		
941	372 000	S	3.14	30	8	10	Cassia		
942	372 000	S	3.14	30	8	10	Cassia		
943	372 000	N	3.14	40	13	10	Sisam		
944	372 000	N	3.14	40	13	10	Sisam		
945	372 000	S	4.71	50	19	10	Sisam		
946	372 000	N	3.14	30	16	4	Sisam		
947	372 000	S	3.66	50	17	6	Sisam		
948	372 000	S	3.66	50	17	6	Sisam		
949	372 000	N	3.14	45	15	6	Sisam		
950	372 000	N	3.14	45	16	6	Sisam		
951	372 000	N	4.19	50	18	6	Sisam		
952	372 000	S	4.19	50	19	6	Sisam		
953	372 000	N	3.66	50	17	7	Sisam		
954	372 000	N	3.66	55	17	7	Sisam		
955	372 000	N	3.14	30	12	7	Sisam		
956	372 000	S	3.14	30	8	8	Cassia		
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958	372 000	S	3.14	30	8	8	Cassia		
959	372 000	N	3.14	30	8	8	Cassia		
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961	372 000	S	3.66	55	13	8	Sisam		
962	372 000	N	3.66	55	13	8	Sisam		
963	372 000	N	3.66	55	13	8	Sisam		
964	372 000	N	3.14	30	8	8	Cassia		
965	372 000	N	4.71	55	20	8	Sisam		
966	372 000	S	4.71	55	20	8	Sisam		
967	372 000	N	3.93	55	17	8	Sisam		
968	372 000	S	4.19	55	17	8	Sisam		
969	372 000	N	3.14	30	8	8	Cassia		
970	372 000	S	4.71	55	20	8	Sisam		
971	372 000	N	3.14	30	8	8	Cassia		
972	372 000	N	3.66	50	15	8	Sisam		
973	372 000	N	3.40	50	14	8	Sisam		
974	372 000	S	3.14	55	8	8	Cassia		
975	372 000	N	4.19	55	17	8	Sisam		
976	372 000	N	3.14	50	13	8	Sisam		
977	372 000	S	3.14	30	8	8	Cassia		
978	372 000	N	3.14	30	8	8	Cassia		
979	372 000	N	3.14	30	8	8	Cassia		
980	372 000	S	3.40	30	8	8	Cassia		
981	372 000	S	4.19	50	17	8	Sisam		
982	372 000	N	4.19	50	17	8	Sisam		
983	372 000	S	3.14	30	8	8	Cassia		
984	372 000	N	3.93	50	16	8	Sisam		
985	372 000	S	3.14	30	8	8	Cassia		
986	372 000	S	3.14	30	8	8	Cassia		
987	372 000	N	3.66	45	15	8	Sisam		
988	372 000	S	3.14	30	8	5	Cassia		
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991	372 000	N	3.14	30	8	5	Cassia		
992	373 000	S	3.14	30	13	8	Sisam		
993	373 000	N	3.14	30	8	10	Cassia		
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995	373 000	S	3.14	30	8	10	Cassia		
996	373 000	S	3.14	30	8	8	Cassia		
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998	373 000	N	3.14	30	8	8	Cassia		
999	373 000	S	3.66	55	14	8	Sisam		
1000	373 000	N	3.14	55	13	8	Sisam		
1001	373 000	N	3.14	35	8	8	Cassia		
1002	373 000	S	3.14	35	8	8	Cassia		
1003	373 000	S	3.93	55	15	8	Sisam		
1004	373 000	S	3.93	55	15	8	Sisam		
1005	373 000	N	3.14	35	8	8	Cassia		
1006	373 000	N	3.66	40	14	8	Sisam		
1007	373 000	N	3.40	40	13	8	Sisam		
1008	373 000	N	3.14	35	8	8	Cassia		
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1011	373 000	S	3.93	50	12	12	Sisam		
1012	373 600	S	3.93	50	16	12	Sisam		
1013	374 000	S	3.66	50	15	12	Sisam		
1014	374 000	N	3.40	50	14	12	Sisam		
1015	374 000	S	3.40	50	14	8	Sisam		
1016	374 000	N	3.40	50	14	8	Sisam		
1017	374 000	S	3.14	50	13	10	Sisam		
1018	374 000	S	3.14	50	13	10	Sisam		
1019	374 000	S	3.14	50	13	10	Sisam		
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1023	374 000	S	3.40	50	13	12	Sisam		
1024	374 000	S	3.40	50	13	10	Sisam		
1025	374 000	S	3.40	55	13	10	Sisam		

1026	374.000	S	3.14	50	12	10	Sisam		
1027	374.000	N	3.14	50	13	10	Sisam		
1028	374.000	S	3.40	50	13	10	Sisam		
1029	374.000	N	3.40	50	13	10	Sisam		
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1037	374.000	S	3.14	50	13	10	Sisam		
1038	374.000	S	3.14	50	13	10	Sisam		
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1079	374.000	S	3.14	50	13	10	Sisam		
1080	374.000	S	3.14	50	13	10	Sisam		
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1093	374.000	S	3.14	50	13	10	Sisam		
1094	374.000	S	3.14	50	13	10	Sisam		
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1096	374.000	S	3.40	50	13	10	Sisam		
1097	374.000	S	3.14	45	13	10	Ingadulsis		
1098	374.800	S	3.14	45	13	10	Sisam		
1099	375.000	S	3.40	45	13	10	Sisam		
1100	375.000	S	3.66	50	13	10	Sisam		
1101	375.000	N	3.40	50	13	10	Sisam		
1102	375.000	N	3.40	50	13	10	Sisam		
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1105	375.000	S	3.66	55	15	10	Sisam		
1106	375.000	N	3.40	50	13	10	Sisam		
1107	375.000	N	3.40	50	13	10	Sisam		
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1113	375.000	N	3.14	50	13	10	Sisam		
1114	375.000	N	3.14	45	13	10	Sisam		
1115	375.000	S	3.14	45	13	10	Arjun		
1116	375.000	S	3.14	45	13	10	Arjun		
1117	375.000	S	3.14	45	13	10	Sisam		
1118	375.000	N	4.71	45	17	10	Sisam		
1119	375.000	N	3.40	45	13	10	Sisam		
1120	375.000	N	3.14	45	13	10	Sisam		
1121	375.000	N	3.14	45	13	10	Sisam		
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1123	375.000	N	3.14	45	13	10	Sisam		
1124	375.000	N	3.14	45	13	10	Sisam		
1125	375.000	N	3.14	30	13	10	Sisam		
1126	375.000	N	3.14	55	13	10	Sisam		
1127	375.000	S	3.14	55	8	10	Cassia		
1128	375.000	S	3.40	55	13	10	Sisam		
1129	375.000	N	3.14	50	13	10	Sisam		
1130	375.000	N	3.14	50	13	10	Sisam		
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1141	375.000	N	3.40	55	13	10	Sisam		
1142	375.000	S	3.14	50	13	10	Sisam		
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1144	375.000	S	3.66	50	13	10	Sisam		
1145	375.000	N	3.40	45	13	10	Sisam		
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1153	375.000	S	3.66	45	13	10	Sisam		
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1175	375.000	S	3.40	40	13	10	Sisam		
1176	375.000	N	3.40	40	13	10	Sisam		
1177	375.000	S	3.40	40	13	10	Sisam		
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1179	375.000	N	3.14	40	13	10	Sisam		
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1191	375.000	S	3.66	45	13	8	Sisam		
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1218	376.000	S	3.14	30	13	8	Sisam		
1219	376.000	S	3.14	30	9	8	Karanj		
1220	376.000	N	3.14	40	13	8	Sisam		

1221	376.000	S	3.14	40	13	8	Sisam		
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1234	376.000	S	3.14	35	13	8	Sisam		
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1237	376.000	N	3.14	35	13	12	Sisam		
1238	376.000	N	3.14	35	13	12	Sisam		
1239	376.000	N	3.40	30	10	12	Karanj		
1240	376.000	N	6.54	40	27	10	Sisam		
1241	376.000	N	3.40	40	13	10	Sisam		
1242	376.000	N	3.14	40	13	8	Sisam		
1243	376.000	S	3.40	30	13	8	Neem		
1244	376.000	S	3.14	30	8	8	Karanj		
1245	376.000	N	3.14	35	13	8	Sisam		
1246	376.000	N	3.40	40	13	8	Sisam		
1247	376.000	S	3.40	30	10	8	Karanj		
1248	376.000	S	3.40	40	13	8	Sisam		
1249	376.000	N	3.14	40	13	8	Sisam		
1250	376.000	S	3.14	40	13	8	Sisam		
1251	376.000	N	3.14	40	13	8	Sisam		
1252	376.000	S	3.14	40	13	8	Sisam		
1253	376.000	S	3.14	40	13	8	Sisam		
1254	376.000	N	3.14	40	13	8	Sisam		
1255	376.000	N	3.14	40	13	8	Sisam		
1256	376.000	N	3.14	40	13	8	Sisam		
1257	376.000	N	3.66	45	13	10	Sisam		
1258	376.000	S	3.14	30	8	8	Cassia		
1259	376.000	S	3.14	35	10	8	Karanj		
1260	376.000	S	3.14	35	10	8	Karanj		
1261	376.000	S	3.14	35	10	8	Karanj		
1262	376.000	N	6.54	45	28	6	Sisam		
1263	376.000	S	3.40	45	13	8	Sisam		
1264	376.000	S	3.40	45	13	8	Sisam		
1265	376.000	S	3.40	45	13	8	Sisam		
1266	376.000	S	3.40	45	13	8	Sisam		
1267	376.000	N	3.14	30	13	5	Sisam		
1268	376.000	S	3.40	40	13	8	Sisam		
1269	376.000	N	3.40	40	13	8	Sisam		
1270	376.000	N	3.40	35	13	8	Sisam		
1271	377.000	N	3.14	35	12	8	Sisam		
1272	377.000	S	3.40	40	13	10	Sisam		
1273	377.000	S	3.40	40	13	10	Sisam		
1274	377.000	N	3.14	40	13	10	Sisam		
1275	377.000	S	3.14	40	13	15	Sisam		
1276	377.000	N	3.14	40	13	15	Sisam		
1277	377.000	S	3.14	35	13	10	Sisam		
1278	377.000	N	3.14	40	13	10	Sisam		
1279	377.000	S	3.14	45	13	10	Sisam		
1280	377.000	S	3.40	45	13	10	Sisam		
1281	377.000	N	3.14	45	13	15	Sisam		
1282	377.000	N	3.14	45	13	15	Sisam		
1283	377.000	S	3.14	45	13	15	Sisam		
1284	377.000	S	3.14	50	13	15	Sisam		
1285	377.000	S	3.14	50	13	15	Sisam		

1286	377.000	S	3.14	55	13	15	Sisam		
1287	377.000	N	3.14	50	13	8	Sisam		
1288	377.000	N	3.14	50	13	8	Sisam		
1289	377.000	N	3.14	50	13	8	Sisam		
1290	377.000	S	3.14	45	13	8	Sisam		
1291	377.000	S	3.93	45	14	8	Sisam		
1292	377.000	N	3.40	45	14	8	Sisam		
1293	377.000	S	3.40	45	13	8	Sisam		
1294	377.000	S	3.93	55	14	8	Sisam		
1295	377.000	N	3.14	45	13	10	Sisam		
1296	377.000	S	3.93	50	14	10	Sisam		
1297	377.000	S	3.40	50	13	10	Sisam		
1298	377.000	S	3.14	45	13	10	Sisam		
1299	377.000	S	3.40	45	13	10	Sisam		
1300	377.000	S	3.40	45	13	10	Sisam		
1301	377.000	N	3.14	40	13	10	Sisam		
1302	377.000	N	3.14	40	13	10	Sisam		
1303	377.000	N	3.40	45	13	10	Sisam		
1304	377.000	S	3.40	45	13	10	Sisam		
1305	377.000	S	3.40	45	13	10	Sisam		
1306	377.000	S	3.40	45	13	10	Sisam		
1307	377.000	N	3.40	45	13	10	Sisam		
1308	377.000	S	3.93	55	16	10	Sisam		
1309	377.000	S	3.14	40	13	10	Sisam		
1310	377.000	S	3.14	40	13	10	Sisam		
1311	377.000	S	3.66	45	14	10	Sisam		
1312	377.000	N	3.66	40	13	10	Sisam		
1313	377.000	N	3.40	45	13	10	Sisam		
1314	377.000	N	3.14	40	13	10	Sisam		
1315	377.000	N	3.93	55	14	10	Sisam		
1316	377.000	S	3.93	55	14	10	Sisam		
1317	377.000	N	3.14	35	13	10	Sisam		
1318	377.000	N	3.93	50	14	10	Sisam		
1319	377.000	S	3.93	55	15	10	Sisam		
1320	377.000	S	3.93	55	15	10	Sisam		
1321	377.000	S	3.93	55	15	10	Sisam		
1322	377.000	S	3.93	55	15	10	Sisam		
1323	377.000	N	4.71	55	19	10	Sisam		
1324	377.000	N	4.71	55	19	10	Sisam		
1325	377.000	S	4.71	60	19	10	Sisam		
1326	377.000	S	5.23	50	22	10	Sisam		
1327	377.000	N	5.23	50	22	10	Sisam		
1328	377.000	N	5.23	50	22	10	Sisam		
1329	378.000	N	4.97	50	22	10	Sisam		
1330	378.000	N	4.97	50	22	10	Sisam		
1331	378.000	N	3.93	45	18	10	Sisam		
1332	378.000	N	4.71	55	20	10	Sisam		
1333	378.000	N	4.45	50	20	10	Sisam		
1334	378.000	N	4.71	50	20	10	Sisam		
1335	378.000	N	3.93	45	17	8	Sisam		
1336	378.000	N	3.93	45	18	10	Sisam		
1337	378.000	N	3.93	45	18	10	Sisam		
1338	378.000	N	4.71	50	22	10	Sisam		
1339	378.000	N	3.93	50	19	10	Sisam		
1340	378.000	N	5.50	50	24	10	Sisam		
1341	378.000	N	5.23	45	24	10	Sisam		
1342	378.000	N	3.66	40	15	10	Sisam		
1343	378.000	N	4.19	40	15	10	Sisam		
1344	378.000	N	3.40	40	15	10	Sisam		
1345	378.000	N	3.40	25	13	10	Sisam		
1346	378.000	N	3.14	45	13	10	Sisam		
1347	378.000	N	3.40	45	13	10	Sisam		
1348	378.000	N	3.93	50	16	10	Sisam		
1349	378.000	N	4.19	45	15	10	Sisam		
1350	378.000	N	3.93	50	15	10	Sisam		

1351	378.000	N	3.66	50	15	10	Sisam		
1352	378.000	N	3.93	45	15	10	Sisam		
1353	378.000	N	3.40	45	15	10	Sisam		
1354	378.000	N	3.66	45	14	10	Sisam		
1355	378.000	N	3.14	45	13	10	Sisam		
1356	378.000	N	3.93	50	17	10	Sisam		
1357	378.000	N	4.71	50	20	10	Sisam		
1358	378.000	N	4.19	50	20	10	Sisam		
1359	378.000	N	4.71	50	21	10	Sisam		
1360	378.000	N	4.19	40	18	10	Sisam		
1361	378.000	N	3.66	35	16	10	Sisam		
1362	378.000	N	3.40	35	14	10	Sisam		
1363	378.000	N	3.93	55	17	10	Sisam		
1364	378.000	N	3.66	45	15	10	Sisam		
1365	378.000	N	3.14	45	13	10	Sisam		
1366	378.000	N	4.19	45	18	10	Sisam		
1367	378.000	N	4.19	45	18	10	Sisam		
1368	378.000	N	3.14	40	13	10	Sisam		
1369	378.000	N	3.66	40	14	10	Sisam		
1370	378.000	N	3.14	45	13	10	Sisam		
1371	378.000	N	3.14	45	13	10	Sisam		
1372	378.000	N	3.40	50	13	10	Sisam		
1373	378.000	N	3.40	50	13	10	Sisam		
1374	378.000	N	3.66	45	14	10	Sisam		
1375	378.000	N	3.93	45	14	10	Sisam		
1376	378.000	N	3.93	45	14	10	Sisam		
1377	378.000	N	3.66	50	14	10	Sisam		
1378	378.000	N	3.66	45	15	10	Sisam		
1379	378.000	N	3.93	45	16	10	Sisam		
1380	378.000	N	3.93	45	16	10	Sisam		
1381	378.000	N	4.71	45	17	10	Sisam		
1382	378.000	N	4.45	45	17	10	Sisam		
1383	378.000	N	4.19	45	17	10	Sisam		
1384	378.000	N	3.66	45	16	10	Sisam		
1385	378.000	N	6.28	55	27	10	Sisam		
1386	379.000	N	4.19	40	18	10	Sisam		
1387	379.000	N	3.14	35	13	8	Arjun		
1388	379.000	N	4.19	35	20	10	Umber	ficus	
1389	379.000	N	3.40	35	14	8	Sisam		
1390	379.000	N	3.14	40	13	8	Sisam		
1391	379.000	N	3.14	40	13	8	Sisam		
1392	379.000	N	3.14	40	13	8	Sisam		
1393	379.000	N	3.66	45	14	8	Sisam		
1394	379.000	N	3.66	40	14	8	Sisam		
1395	379.000	N	3.40	45	14	8	Sisam		
1396	379.000	N	3.66	45	14	8	Sisam		
1397	379.000	N	3.40	45	14	8	Sisam		
1398	381.600	N	3.14	35	13	8	Sisam		
1399	381.000	N	4.71	40	19	8	Sisam		
1400	381.000	N	3.66	35	16	10	Neem		
1401	381.000	N	4.45	40	18	10	Neem		
1402	381.000	N	4.19	40	22	12	Ficus		
1403	381.000	N	4.71	40	22	15	Ficus		
1404	381.000	N	3.14	40	16	15	Ficus		
1405	381.000	N	3.14	40	16	15	Ficus		
1406	381.000	N	7.85	40	40	5	Ficus		
1407	381.000	N	3.93	35	11	10	Cassia		
1408	381.000	N	3.66	35	15	10	Sisam		
1409	381.000	N	3.40	35	13	10	Sisam		
1410	381.000	N	3.14	35	13	10	Sisam		
1411	381.000	N	3.14	35	13	10	Sisam		
1412	381.000	N	3.40	40	13	10	Sisam		
1413	381.000	N	3.66	35	15	15	Sisam		
1414	382.000	N	4.19	30	22	15	Pipal	ficus religeoua	
1415	382.000	N	3.66	40	16	44	Neem		

1416	382 000	N	4.71	45	22	12	Neem		
1417	382 000	N	3.93	45	17	10	Sisam		
1418	382 000	N	6.80	45	32	5	Sisam		
1419	382 000	N	4.45	45	17	5	Sisam		
1420	382 000	N	4.71	45	17	5	Sisam		
1421	382 000	N	3.93	45	17	5	Sisam		
1422	382 000	N	4.19	45	17	5	Sisam		
1423	382 000	N	3.40	40	14	10	Sisam		
1424	382 000	N	3.93	40	17	5	Sisam		
1425	382 000	N	3.66	35	15	9	Sisam		
1426	382 000	N	4.97	45	22	5	Sisam		
1427	382 000	N	5.50	40	24	4	Sisam		
1428	382 000	N	4.19	50	18	5	Sisam		
1429	382 000	N	4.45	40	18	5	Sisam		
1430	382 000	N	7.33	45	35	4	Sisam		
1431	382 000	N	3.14	40	14	7	Sisam		
1432	382 000	N	3.93	45	14	7	Sisam		
1433	382 000	N	3.40	45	14	6	Sisam		
1434	382 000	N	3.66	45	14	7	Sisam		
1435	382 000	N	3.14	45	13	7	Sisam		
1436	382 000	N	3.14	45	13	7	Sisam		
1437	382 000	N	3.14	45	13	7	Sisam		
1438	382 000	N	3.40	45	13	7	Sisam		
1439	382 000	N	4.19	30	18	5	Neem		
1440	382 000	N	3.14	35	13	5	Sisam		
1441	382 400	N	3.14	45	13	5	Sisam		
1442	382 000	N	6.28	45	30	5	Sisam		
1443	382 000	N	5.50	40	23	5	Sisam		
1444	382 000	N	3.40	30	14	15	Sisam		
1445	382 000	N	3.14	30	13	15	Sisam		
1446	382 000	N	3.66	35	15	15	Sisam		
1447	382 000	N	3.14	35	13	5	Sisam		
1448	382 000	N	3.14	35	13	5	Sisam		
1449	382 000	N	3.14	35	14	5	Neem		
1450	382 000	N	3.66	40	14	5	Sisam		
1451	382 000	N	3.14	45	14	15	Sisam		
1452	382 000	N	4.71	40	22	5	Sisam		
1453	382 000	N	3.40	35	14	8	Sisam		
1454	382 000	N	3.14	40	13	15	Sisam		
1455	382 000	N	3.40	35	13	5	Sisam		
1456	382 000	N	3.14	35	13	9	Sisam		
1457	382 000	N	3.40	45	13	7	Sisam		
1458	382 000	N	4.19	50	18	8	Sisam		
1459	382 000	N	3.14	35	13	5	Sisam		
1460	382 000	N	3.14	35	13	7	Sisam		
1461	382 000	N	3.14	35	13	8	Sisam		
1462	382 000	N	3.40	40	13	5	Sisam		
1463	382 000	N	3.66	40	13	8	Sisam		
1464	382 000	N	3.40	35	13	8	Sisam		
1465	382 000	N	3.66	35	13	8	Sisam		
1466	382 000	N	3.66	45	13	7	Sisam		
1467	382 000	N	3.93	40	15	7	Sisam		
1468	382 000	N	3.14	45	13	7	Sisam		
1469	382 000	N	3.40	45	13	8	Sisam		
1470	382 000	N	3.14	45	13	8	Sisam		
1471	382 000	N	3.40	50	13	8	Sisam		
1472	382 000	N	3.66	50	13	8	Sisam		
1473	382 000	N	3.14	35	13	8	Sisam		
1474	382 000	N	6.28	55	26	8	Sisam		
1475	382 000	N	3.40	35	14	5	Sisam		
1476	382 000	N	4.71	35	20	5	Sisam		
1477	382 000	N	3.40	40	13	5	Sisam		
1478	382 000	N	3.66	40	13	5	Sisam		
1479	382 000	N	3.40	45	13	5	Sisam		
1480	382 000	N	3.14	45	13	5	Sisam		

1481	382.000	N	3.40	50	13	5	Sisam	
1482	382.000	N	3.40	45	13	5	Sisam	
1483	382.000	N	3.14	25	13	5	Sisam	
1484	382.000	N	3.14	40	13	5	Sisam	
1485	382.000	N	3.14	40	13	5	Sisam	
1486	382.000	N	3.14	45	13	5	Sisam	
1487	382.000	N	3.14	40	13	5	Sisam	
1488	382.000	N	3.14	50	13	5	Sisam	
1489	382.000	N	3.14	40	13	5	Sisam	
1490	382.000	N	3.14	55	13	5	Sisam	
1491	382.000	N	3.14	45	13	5	Sisam	
1492	382.000	N	3.40	40	13	5	Sisam	
1493	382.000	N	3.40	40	13	5	Sisam	
1494	382.000	N	3.14	40	13	5	Sisam	
1495	382.000	N	3.14	20	12	8	Arjun	Kisan Bricks Udyog
1496	382.000	N	3.14	35	13	3	Sisam	
1497	383.000	N	3.14	30	13	3	Arjun	
1498	383.000	N	3.14	30	13	3	Arjun	
1499	383.000	N	3.14	30	13	3	Arjun	
1500	383.000	N	3.14	35	13	8	Arjun	
1501	383.000	N	3.14	35	13	3	Sisam	
1502	383.000	N	3.14	30	13	8	Arjun	
1503	383.000	N	3.14	30	13	8	Arjun	
1504	383.000	N	3.14	30	13	8	Arjun	
1505	383.000	N	3.14	35	13	3	Sisam	
1506	383.000	N	3.14	25	13	8	Arjun	
1507	383.000	N	3.14	25	13	10	Mango	
1508	383.000	N	3.93	40	16	6	Sisam	
1509	383.000	N	3.14	40	13	8	Sisam	
1510	383.000	N	3.40	45	12	10	Arjun	
1511	383.000	N	3.14	45	12	10	Arjun	
1512	383.000	N	3.14	45	12	10	Arjun	
1513	383.000	N	3.14	35	13	6	Sisam	
1514	383.000	N	3.40	35	13	8	Sisam	
1515	383.000	N	3.14	35	13	10	Sisam	
1516	383.000	N	3.40	40	13	10	Sisam	
1517	383.000	N	3.40	40	13	10	Sisam	
1518	383.000	N	3.14	40	13	10	Sisam	
1519	383.000	N	3.14	40	13	10	Sisam	
1520	383.000	N	3.14	35	13	4	Sisam	
1521	383.000	N	3.14	35	13	4	Sisam	
1522	383.000	N	3.14	25	13	4	Sisam	
1523	383.000	N	3.14	30	13	4	Sisam	
1524	383.000	N	3.14	30	13	4	Sisam	
1525	383.000	N	3.14	30	13	4	Sisam	
1526	383.000	N	3.40	30	13	10	Sisam	
1527	383.000	N	3.40	30	13	4	Sisam	
1528	383.000	N	3.40	40	13	4	Sisam	
1529	383.000	N	3.93	40	15	10	Sisam	
1530	383.000	N	3.66	40	15	10	Sisam	
1531	383.000	N	3.66	40	15	8	Sisam	
1532	383.000	N	3.40	40	14	3	Sisam	
1533	383.000	N	3.66	45	14	8	Sisam	
1534	383.000	N	3.66	45	14	8	Sisam	
1535	383.000	N	3.66	45	14	8	Sisam	
1536	383.000	N	3.93	35	16	3	Sisam	
1537	383.000	N	3.66	35	14	8	Sisam	
1538	383.000	N	4.19	40	17	8	Sisam	
1539	383.000	N	3.66	35	15	8	Sisam	
1540	383.000	N	3.40	45	13	3	Sisam	
1541	383.000	N	3.40	45	13	3	Sisam	
1542	383.000	N	3.40	45	13	3	Sisam	
1543	383.000	N	3.40	45	13	3	Sisam	
1544	383.000	N	3.40	45	13	3	Sisam	
1545	383.000	N	3.14	40	13	7	Sisam	

1546	383.000	N	4.45	40	20	8	Sisam		
1547	383.000	N	3.93	35	17	8	Sisam		
1548	383.000	N	3.40	30	16	8	Ficus		
1549	383.500	N	4.19	30	25	8	Bargad		
1550	383.000	N	4.19	40	15	8	Sisam		
1551	383.000	N	3.66	40	15	7	Sisam		
1552	383.000	N	3.40	40	14	8	Sisam		
1553	383.000	N	3.93	50	15	5	Sisam		
1554	383.000	N	4.71	50	20	3	Sisam		
1555	383.000	N	4.71	45	20	12	Sisam		
1556	383.000	N	4.71	40	20	7	Sisam		
1557	383.000	N	3.66	40	15	10	Sisam		
1558	383.000	N	3.14	35	13	12	Sisam		
1559	383.000	N	3.14	35	13	12	Sisam		
1560	383.000	N	3.14	35	13	10	Sisam		
1561	383.000	N	3.40	40	14	10	Sisam		
1562	383.000	N	3.14	35	13	10	Sisam		
1563	383.000	N	3.14	35	13	10	Sisam		
1564	383.000	N	3.93	40	15	10	Sisam		
1565	383.000	N	3.93	40	15	10	Sisam		
1566	383.000	N	3.40	40	15	8	Sisam		
1567	383.000	N	3.93	40	15	8	Sisam		
1568	383.000	N	3.93	40	15	8	Sisam		
1569	383.000	N	3.93	40	15	8	Sisam		
1570	383.000	N	3.40	35	15	12	Sisam		
1571	383.000	N	3.14	35	13	12	Sisam		
1572	383.000	N	3.14	35	13	12	Sisam		
1573	383.000	N	3.14	45	13	10	Sisam		
1574	383.000	N	3.66	40	15	12	Sisam		
1575	383.000	N	3.14	40	13	10	Sisam		
1576	383.000	N	3.14	40	13	10	Sisam		
1577	383.000	N	3.40	40	13	8	Sisam		
1578	383.000	N	3.14	40	13	8	Sisam		
1579	383.000	N	3.40	40	12	10	Arjun		
1580	383.000	N	3.14	40	13	10	Sisam		
1581	383.000	N	3.40	40	12	12	Arjun		
1582	383.000	N	3.40	40	13	10	Sisam		
1583	383.000	N	3.40	35	12	10	Arjun		
1584	383.000	N	3.14	35	13	10	Sisam		
1585	383.000	N	3.14	30	13	10	Mango		
1586	383.000	N	3.93	40	17	10	Sisam		
1587	383.000	N	3.93	40	17	10	Sisam		
1588	383.000	N	3.93	40	17	10	Sisam		
1589	383.000	N	3.40	30	14	10	Sisam		
1590	383.000	N	4.71	55	17	10	Arjun		
1591	383.000	N	3.40	45	14	10	Sisam		
1592	383.000	N	3.14	45	13	8	Sisam		
1593	383.000	N	3.14	45	13	10	Sisam		
1594	383.000	N	3.40	45	14	8	Sisam		
1595	383.000	N	3.40	45	14	10	Sisam		
1596	383.000	N	3.14	45	13	10	Sisam		
1597	383.000	N	3.40	45	14	10	Sisam		
1598	383.000	N	3.66	45	15	10	Arjun		
1599	383.000	N	3.14	40	13	10	Arjun		
1600	383.000	N	4.45	45	18	10	Arjun		
1601	383.000	N	4.45	45	18	10	Arjun		
1602	383.000	N	3.14	45	13	10	Sisam		
1603	383.000	N	3.93	45	15	10	Arjun		
1604	383.000	N	3.40	45	14	10	Arjun		
1605	383.000	N	3.66	30	16	12	Jackfruit		
1606	383.000	N	3.93	40	18	15	Mango		
1607	383.000	N	3.66	50	14	10	Arjun		
1608	383.000	N	3.14	45	13	10	Arjun		
1609	383.000	N	4.19	45	15	12	Arjun		
1610	383.000	N	3.14	40	14	12	Mango		

1611	383 000	N	3.14	40	14	12	Mango		
1612	383 000	N	6.28	45	26	10	Arjun		
1613	383 000	N	3.66	45	14	8	Sisam		
1614	383 000	N	3.66	45	14	8	Sisam		
1615	383 000	N	3.14	45	13	8	Sisam		
1616	383 000	N	4.71	45	20	6	Sisam		
1617	384 000	N	4.71	45	20	6	Sisam		
1618	384 000	N	3.66	45	16	8	Sisam		
1619	384 000	N	6.28	45	30	5	Sisam		
1620	384 000	N	6.28	50	30	5	Sisam		
1621	384 000	N	3.93	40	17	10	Sisam		
1622	384 000	N	4.71	50	22	10	Sisam		
1623	384 000	N	4.71	50	22	10	Sisam		
1624	384 000	N	3.93	50	18	10	Sisam		
1625	384 000	N	5.23	50	22	10	Arjun		
1626	384 000	N	5.23	55	22	10	Arjun		
1627	384 000	N	5.23	50	22	10	Sisam		
1628	384 000	N	4.71	45	22	8	Sisam		
1629	384 000	N	4.71	45	22	8	Sisam		
1630	384 000	N	4.71	45	22	8	Sisam		
1631	384 000	N	4.45	45	18	10	Sisam		
1632	384 000	N	3.93	45	17	10	Sisam		
1633	384 000	N	3.93	45	16	10	Arjun		
1634	384 000	N	3.93	45	17	10	Sisam		
1635	384 000	N	5.23	45	22	10	Sisam		
1636	384 000	N	4.71	45	20	10	Sisam		
1637	384 000	N	4.71	45	20	10	Sisam		
1638	384 000	N	4.45	45	18	10	Sisam		
1639	384 000	N	4.45	45	18	10	Sisam		
1640	384 000	N	4.45	45	18	10	Sisam		
1641	384 000	N	4.71	50	20	10	Sisam		
1642	384 000	N	3.66	50	16	10	Sisam		
1643	384 000	N	3.93	45	16	10	Sisam		
1644	384 000	N	3.93	45	16	10	Sisam		
1645	384 000	N	5.23	50	24	10	Arjun		
1646	384 000	N	5.23	50	24	10	Arjun		
1647	384 000	N	4.71	45	22	10	Arjun		
1648	384 000	N	5.23	45	22	10	Mango		
1649	384 000	N	5.23	50	22	8	Sisam		
1650	384 000	N	5.76	50	22	8	Sisam		
1651	384 000	N	5.76	55	22	10	Sisam		
1652	384 000	N	4.71	50	22	10	Sisam		
1653	384 000	N	5.23	50	22	10	Sisam		
1654	384 000	N	3.14	30	13	8	Sisam		
1655	384 000	N	3.14	30	13	8	Sisam		
1656	384 000	N	3.14	30	13	8	Sisam		
1657	384 000	N	5.23	50	22	5	Sisam		
1658	384 000	N	3.93	55	17	6	Sisam		
1659	384 000	N	3.40	55	15	5	Sisam		
1660	384 000	N	3.93	50	17	6	Sisam		
1661	384 000	N	3.66	40	14	8	Sisam		
1662	384 000	N	3.40	40	14	8	Sisam		
1663	384 000	N	3.93	40	14	8	Sisam		
1664	384 000	N	3.93	40	14	8	Sisam		
1665	384 000	N	4.71	40	20	8	Sisam		
1666	384 000	N	4.71	40	20	8	Sisam		
1667	384 000	N	4.71	50	20	7	Sisam		
1668	384 000	N	3.93	50	17	8	Sisam		
1669	384 000	N	3.93	45	17	8	Sisam		
1670	384 000	N	3.93	45	17	8	Sisam		
1671	384 000	N	4.71	40	22	8	Sisam		
1672	384 000	N	3.66	40	16	8	Sisam		
1673	384 000	N	4.71	45	18	8	Sisam		
1674	384 000	N	3.14	35	14	8	Sisam		
1675	384 000	N	4.71	45	17	8	Sisam		

1676	384 000	N	3.93	40	17	6	Sisam		
1677	384 000	N	3.93	40	17	6	Sisam		
1678	384 000	N	4.71	45	20	6	Sisam		
1679	384 000	N	5.76	45	24	8	Sisam		
1680	384 000	N	5.23	45	24	10	Sisam		
1681	384 000	N	4.71	45	20	10	Sisam		
1682	384 000	N	5.23	45	22	10	Sisam		
1683	384 000	N	6.28	45	28	10	Sisam		
1684	384 000	N	8.37	50	35	10	Sisam		
1685	384 000	N	6.28	50	28	12	Sisam		
1686	384 000	N	6.28	40	28	15	Sisam		
1687	384 000	N	6.54	50	28	10	Sisam		
1688	384 000	N	8.37	45	36	10	Sisam		
1689	384 000	N	4.71	45	20	12	Sisam		
1690	384 000	N	4.19	45	15	12	Sisam		
1691	384 000	N	5.23	55	22	10	Sisam		
1692	384 000	N	4.71	45	20	10	Sisam		
1693	384 000	N	6.80	45	27	10	Sisam		
1694	384 000	N	6.80	45	28	12	Sisam		
1695	384 000	N	3.14	45	13	12	Sisam		
1696	384 000	N	5.76	50	24	12	Sisam		
1697	384 000	N	5.76	50	24	12	Sisam		
1698	384 000	N	3.66	45	15	10	Sisam		
1699	385 000	N	3.66	45	15	10	Sisam		
1700	385 000	N	3.14	45	13	10	Sisam		
1701	385 000	N	3.14	45	13	10	Sisam		
1702	385 000	N	3.14	45	13	10	Sisam		
1703	385 000	N	3.93	50	17	8	Sisam		
1704	385 000	N	4.19	50	17	8	Sisam		
1705	385 000	N	4.71	50	17	8	Sisam		
1706	385 000	N	4.71	50	19	8	Sisam		
1707	385 000	N	4.71	50	19	8	Sisam		
1708	385 000	N	5.23	50	22	12	Sisam		
1709	385 000	N	4.71	50	19	12	Sisam		
1710	385 000	N	4.71	50	20	12	Sisam		
1711	385 000	N	7.33	50	32	12	Sisam		
1712	385 000	N	3.66	40	15	12	Sisam		
1713	385 000	N	4.71	40	20	12	Sisam		
1714	385 000	N	4.71	40	20	12	Sisam		
1715	385 000	N	5.23	40	20	12	Sisam		
1716	385 000	N	5.23	40	20	12	Sisam		
1717	385 000	N	4.71	45	20	12	Sisam		
1718	385 000	N	4.71	45	20	12	Sisam		
1719	385 000	N	5.76	50	24	12	Sisam		
1720	385 000	N	3.93	45	17	12	Sisam		
1721	385 000	N	3.66	45	16	10	Sisam		
1722	385 000	N	7.33	55	32	10	Sisam		
1723	385 000	N	4.71	45	19	10	Sisam		
1724	385 000	N	7.33	50	32	10	Sisam		
1725	385 000	N	7.33	50	32	10	Sisam		
1726	385 000	N	6.28	45	28	10	Sisam		
1727	385 000	N	3.93	45	16	12	Sisam		
1728	385 000	N	3.93	50	16	12	Sisam		
1729	385 000	N	4.45	45	19	12	Sisam		
1730	385 000	N	4.71	45	19	12	Sisam		
1731	385 000	N	6.80	40	28	12	Sisam		
1732	385 000	N	4.71	40	22	12	Sisam		
1733	385 000	N	5.76	50	24	10	Sisam		
1734	385 000	N	4.97	45	20	10	Sisam		
1735	385 000	N	7.59	50	32	10	Sisam		
1736	385 000	N	3.40	40	15	16	Sisam		
1737	385 000	N	6.54	45	28	10	Sisam		
1738	385 000	N	7.59	45	32	10	Sisam		
1739	385 000	N	3.14	40	13	10	Sisam		
1740	385 000	N	6.54	50	28	10	Sisam		

1741	385.000	N	8.37	55	34	10	Sisam		
1742	385.000	N	3.40	40	15	10	Sisam		
1743	385.000	N	4.19	40	15	10	Sisam		
1744	385.000	N	4.45	40	18	12	Sisam		
1745	385.000	N	3.40	40	13	12	Sisam		
1746	385.000	N	3.14	40	13	12	Sisam		
1747	385.000	N	3.66	40	13	12	Sisam		
1748	385.000	N	3.66	35	16	10	Sisam		
1749	385.000	N	3.66	45	16	10	Sisam		
1750	385.000	N	4.19	50	18	12	Sisam		
1751	385.000	N	3.93	40	18	12	Sisam		
1752	385.000	N	4.19	40	18	12	Sisam		
1753	385.000	N	4.19	40	18	12	Sisam		
1754	385.000	N	3.14	40	13	12	Sisam		
1755	385.000	N	4.45	50	18	12	Sisam		
1756	385.000	N	3.66	50	12	12	Arduso		
1757	385.000	N	3.40	35	13	12	Sisam		
1758	385.000	N	3.66	35	13	12	Sisam		
1759	385.000	N	3.14	35	13	12	Sisam		
1760	385.000	N	3.14	40	13	12	Sisam		
1761	385.000	N	3.93	40	16	12	Sisam		
1762	385.000	N	4.45	40	18	12	Sisam		
1763	385.000	N	6.80	50	32	10	Sisam		
1764	385.000	N	4.45	40	18	12	Sisam		
1765	385.000	N	3.14	40	13	12	Sisam		
1766	385.000	N	3.14	30	13	12	Sisam		
1767	385.000	N	3.66	30	18	12	Mango		
1768	385.000	N	3.40	35	15	10	Sisam		
1769	385.000	N	4.19	40	18	12	Sisam		
1770	385.000	N	3.40	40	15	10	Sisam		
1771	385.000	N	4.45	40	18	10	Sisam		
1772	385.000	N	3.66	40	16	10	Sisam		
1773	385.000	N	4.45	40	18	10	Sisam		
1774	385.000	N	4.45	40	18	10	Sisam		
1775	385.000	N	3.93	40	18	10	Sisam		
1776	385.000	N	3.66	35	16	10	Sisam		
1777	385.000	N	3.66	35	16	10	Sisam		
1778	385.000	N	3.66	35	16	10	Sisam		
1779	385.000	N	3.93	40	16	10	Sisam		
1780	385.000	N	4.19	40	18	10	Sisam		
1781	385.000	N	3.14	35	13	10	Sisam		
1782	385.000	N	3.93	40	15	10	Sisam		
1783	385.000	N	4.19	40	18	10	Sisam		
1784	385.000	N	3.66	40	15	12	Sisam		
1785	385.000	N	3.66	40	15	12	Sisam		
1786	385.000	N	3.14	40	13	10	Sisam		
1787	385.000	N	3.66	40	16	10	Sisam		
1788	385.000	N	3.66	40	13	10	Sisam		
1789	385.000	N	3.93	45	16	10	Sisam		
1790	385.000	N	4.19	40	18	10	Sisam		
1791	385.000	N	3.93	30	18	10	Sisam		
1792	385.000	N	4.19	45	18	10	Sisam		
1793	385.000	N	3.66	50	18	10	Sisam		
1794	385.000	N	3.66	50	18	10	Sisam		
1795	385.000	N	8.37	50	34	10	Sisam		
1796	385.000	N	3.66	50	16	8	Sisam		
1797	386.000	N	5.50	55	24	8	Sisam		

Detailed Statement of Suitable Trees for Transplanting Chainagewise
PACKAGE IV A (317-65)

Sr No	Chain -		Tree			RoadSide	Tree	Forest	Remark
	Age	Side	Girth	Height	Age	Distance	Species	No	
	Kms	N/S	ft	ft	Yrs	Mtrs			
1	2	3	4	5	6	7	8	9	10
1	317.-318	N	7.54	38	10		6 Shisam		Mohansarai
2	317.-318	N	5.655	28	8		10 Shisam		
3	317.-318	N	5.027	28	8		10 Shisam		
4	317.-318	N	4.712	26	8		9 Shisam		
5	317.-318	N	5.027	27	8		9 Shisam		
6	317.-318	N	6.283	30	8		9 Shisam		
7	317.-318	N	6.283	32	9		6 Shisam		
8	317.-318	N	6.283	34	10		5 Gulmohor		
9	317.-318	N	6.283	32	9		5 Shisam		
10	317.-318	N	8.168	28	10		5 Shisam		
11	317.-318	N	6.283	30	10		5 Shisam		
12	317.-318	N	6.283	30	10		5 Shisam		
13	317.-318	N	5.655	30	10		7 Shisam		
14	317.-318	N	5.655	28	8		7 Shisam		
15	317.-318	N	5.655	28	8		10 Shisam		
16	317.-318	N	5.027	26	8		4 Shisam		
17	317.-318	N	5.027	26	8		5 Shisam		
18	317.-318	N	7.54	35	10		5 Shisam		
19	317.-318	N	7.54	34	10		12 Shisam		
20	317.-318	N	7.854	32	10		10 Shisam		
21	317.-318	N	5.655	30	8		6 Gulmohor		
22	317.-318	N	8.168	32	10		5 Shisam		
23	317.-318	N	7.54	30	10		6 Gulmohor		
24	317.-318	N	7.54	32	10		6 Shisam		
25	317.-318	N	5.655	28	8		5 Shisam		
26	317.-318	N	5.655	28	8		7 Shisam		
27	317.-318	N	7.854	32	10		8 Shisam		
28	317.-318	N	8.168	32	10		4 Shisam		
29	317.-318	N	6.283	32	10		6 Shisam		
30	317.-318	N	6.283	32	9		9 Shisam		
31	317.-318	N	3.77	28	8		9 Shisam		
32	317.-318	N	4.398	28	8		9.5 Shisam		
33	317.-318	N	9.425	40	15		6 Pipal		
34	317.-318	N	5.027	30	10		6 Shisam		
35	317.-318	N	6.912	32	10		7 Shisam		
36	317.-318	N	7.54	30	10		7 Neem		
37	317.-318	N	6.912	34	12		9 Shisam		
38	317.-318	N	6.597	33	12		12 Shisam		
39	317.-318	N	6.597	32	10		9 Shisam		
40	317.-318	N	6.597	32	10		7 Shisam		
41	317.-318	N	6.597	30	10		6 Shisam		
42	317.-318	N	6.283	28	9		7 Gulmohor		
43	317.-318	N	5.655	30	8		7 Gulmohor		
44	317.-318	N	7.226	34	10		7 Shisam		
45	317.-318	N	6.912	32	8		6 Shisam		

Detailed Statement of Suitable Trees for Transplanting Chainagewise										
PACKAGE IV A (317-65)										
Sr	Chain -	Tree				RoadSide	Tree	Forest		
No	Age	Side	Girth	Hight	Age	Distance	Species	No	Remark	
	Kms	N/S	ft	ft	Yrs	Mtrs				
1	2	3	4	5	6	7	8	9	10	
46	317.-318	N	6.912	32	10		6 Shisam			
47	317.-318	N	8.168	34	12		8 Shisam			
48	317.-318	N	5.027	28	8		9 Cassia			
49	317.-318	N	5.027	28	8		11 Cassia			
50	317.-318	N	5.341	28	8		10 Cassia			
51	317.-318	N	5.969	30	9		7 Shisam			
52	317.-318	N	6.283	31	9		9 Shisam			
53	317.-318	N	9.739	32	12		6 Neem			
54	317.-318	N	8.796	30	10		7 Shisam			
55	317.-318	N	8.168	30	10		8 Shisam			
56	317.-318	N	9.111	35	12		11 Shisam			
57	318-319	N	8.796	32	10		7 Shisam			
58	318-319	N	8.482	32	9		7 Shisam			
59	318-319	N	9.425	34	11		7 Shisam			
60	318-319	N	9.425	30	10		7 Shisam			
61	318-319	N	8.796	32	9		7 Shisam			
62	318-319	N	8.796	34	9		7 Shisam			
63	318-319	N	9.111	32	9		7 Shisam			
64	318-319	N	6.283	30	9-12	5-15	Shisam		15# Not Marked -ROAD FOR VAF	
65	1.00-20.00								VRM BY PASS	
66	21-22	N	4.712	50	10		6 Neem			
67	21-22	S	6.283	40	10		5 Pipal			
68	21-22	S	4.712	40	8		6 Shisam			
69	21-22	S	3.142	25	6		5 Shisam			
70	21-22	S	4.712	30	8		5 Shisam			
71	21-22	S	4.712	35	8		8 Shisam			
72	21-22	S	4.712	35	10		15 Gulmohor			
73	21-22	S	4.712	30	9-12	5-15	Shisam		35# TREES Not Marked	
74	22-23	N	4.712	25	8		5 Shisam			
75	22-23	N	3.142	30	8		3 Bheda (?)			
76	22-23	N	3.77	30	8		5 Shisam			
77	22-23	N	6.283	50	15		10 Shisam			
78	22-23	N	4.712	40	10		5 Neem		Mandir - Tree Not Marked	
79	22-23	N	3.142	20	10		10 Karanj			
80	22-23	N	7.854	30	10		15 Albizia			
81	22-23	N	4.712	30	10		10 Karanj			
82	22-23	N	4.712	30	10		10 Karanj			
83	22-23	N	4.712	30	10		10 Karanj			
84	22-23	N	4.712	35	10		6 Shisam			
85	22-23	N	6.283	40	12		6 Shisam			
86	22-23	N	4.712	40	10		5 Albizia			
87	22-23	N	4.712	40	10		5 Albizia			
88	22-23	N	6.283	33	10		4 Albizia		Tel Oh	
89	22-23	N	6.283	35	10		4 Shisam		Tel Oh	
90	22-23	N	4.712	35	10		5 Shisam		Tel Oh Laxmi Public School	

Detailed Statement of Suitable Trees for Transplanting Chainagewise

PACKAGE IV A (317-65)

Sr No	Chain - Age	Side	Girth	Tree Hight	RoadSide	Tree Age	Distance	Tree Species	Forest No	Remark
	Kms	N/S	ft	ft	Yrs	Mtrs				
1	2	3	4	5	6	7		8	9	10
91	22-23	N	4.084	35	10			4 Shisam		
92	22-23	N	3.77	30	10			6 Shisam		
93	22-23	N	4.712	45	10			15 Shisam		
94	22-23	N	4.712	45	12			15 Shisam		
95	22-23	N	3.77	40	10			20 Karanj		
96	22-23	N	3.77	35	10			20 Karanj		
97	22-23	N	3.77	35	10			20 Karanj		
98	22-23	N	3.77	35	10			20 Karanj		
99	22-23	N	4.712	40	10			15 Shisam		
100	22-23	N	4.712	30	10			22 Karanj		
101	22-23	N	3.77	30	10			8 Shisam		
102	22-23	N	3.77	30	8			10 Shisam		
103	22-23	N	3.77	25	6.8			20 Karanj		
104	22-23	N	3.77	25	7			15 Karanj		
105	22-23	N	3.77	25	10			20 Karanj		
106	22-23	N	3.77	30	10			20 Karanj		
107	22-23	N	4.084	35	10			20 Karanj		
108	22-23	N	4.712	25	8			21 Karanj		
109	22-23	N	4.712	30	10			22 Karanj		
110	22-23	N	4.712	28	8			22 Karanj		
111	22-23	N	5.341	28	9-12		5-15	Shisam		40 # TREES Not Marked
112	23-24	N	4.712	30	8			22 Karanj		
113	23-24	N	7.854	40	15			5 Neem		
114	23-24	N	7.854	40	15			5 Casia		
115	23-24	N	7.854	40	15			5 Pipal		
116	23-24	N	5.655	35	12			10 Shisam		
117	23-24	N	6.912	42	15			10 Albizia		Before IOC Petrol Pump
118	23-24	N	6.283	35	10			10 Albizia		
119	24-25	N	5.655	32	8			8 Shisam		
120	24-25	N	4.712	32	8			6 Shisam		
121	24-25	N	4.712	32	12			8 Shisam		
122	25-26	N	4.712	28	9-12		5-15	Shisam		32 # TREES Trees Not Marked
123	25-26	N	3.77	35	10			8 Karanj		
124	25-26	N	3.77	30	10			8 Karanj		
125	25-26	N	4.40	30	10			8 Karanj		
126	25-26	N	5.027	30	10			8 Karanj		
127	25-26	N	5.027	30	10			10 New spicies		
128	25-26	N	3.77	30	8			10 Pipal		
129	25-26	N	3.77	35	8			20 Shisam		
130	25-26	N	5.027	34	8			20 Shisam		
131	25-26	N	5.027	34	8			18 Shisam		
132	26-27	N	3.77	40	10			15 Shisam		
133	26-27	N	3.77	40	10			15 Shisam		
134	26-27	N	6.283	40	10			15 Shisam		
135	26-27	N	5.655	40	10			15 Shisam		

Detailed Statement of Suitable Trees for Transplanting Chainagewise

PACKAGE IV A (317-65)

Sr Chain -		Tree				RoadSide Tree		Forest	
No	Age	Side	Girth	Hight	Age	Distance	Species	No	Remark
	Kms	N/S	ft	ft	Yrs	Mtrs			
1	2	3	4	5	6	7	8	9	10
136	26-27	N	4.712	40	10		8 Shisam		
137	26-27	N	4.712	38	10		8 Shisam		
138	26-27	N	4.712	38	10		15 Shisam		
139	26-27	N	4.712	38	10		12 Shisam		
140	26-27	N	4.712	38	10		15 Shisam		
141	26-27	N	4.712	38	10		18 Shisam		
142	26-27	N	4.712	38	10		8 Shisam		
143	26-27	N	8.168	35	15		8 Shisam		
144	26-27	N	6.912	35	14		8 Shisam		
145	26-27	N	11.31	50	25		15 Pipal		
146	26-27	N	10.05	38	14		10 Shisam		
147	26-27	N	8.80	40	12		12 Shisam		
148	26-27	N	8.80	40	12		12 Shisam		
149	32-33	S	6.912	35	10		10 Shisam		After Jagdishsarai
150	32-33	S	5.655	32	8		10 Shisam		After Chandauli
151	32-33	S	6.283	35	10		12 Shisam		
152	32-33	S	9.425	40	15		8 Pipal		
153	32-33	N	3.77	30	10		15 Shisam		
154	32-33	N	3.77	30	10		15 Shisam		
155	32-33	N	3.77	30	10		15 Shisam		
156	32-33	N	3.77	30	10		17 Shisam		
157	32-33	N	3.77	28	8		15 Shisam		
158	32-33	N	6.912	30	12		7 Neem		
159	32-33	N	6.912	30	12		5 Neem		
160	32-33	N	7.854	35	14		6 Shisam		
161	32-33	N	5.027	30	8		10 Shisam		
162	32-33	N	6.912	35	14		6 Neem		
163	34-35	N	3.77	35	10		8 Shisam		
164	34-35	N	3.77	35	10		8 Shisam		
165	34-35	N	5.027	38	12		8 Shisam		
166	34-35	N	5.027	40	14		8 Shisam		
167	34-35	N	6.283	35	10		10 Shisam		
168	34-35	N	6.283	35	10		20 Shisam		
169	34-35	N	6.283	35	10		15 Shisam		
170	34-35	N	6.283	35	10		10 Shisam		
171	34-35	N	3.77	28	6		22 Shisam		
172	34-35	N	3.77	28	6		25 Shisam		
173	34-35	N	3.77	28	6		25 Shisam		
174	34-35	N	5.341	35	9		13 Shisam		
175	34-35	N	5.027	35	8		10 Shisam		
176	34-35	N	3.77	30	8		16 Shisam		
177	34-35	N	3.77	30	8		12 Shisam		
178	34-35	N	3.77	32	8		14 Shisam		
179	34-35	N	3.77	30	8		16 Shisam		
180	34-35	N	5.027	35	10		10 Shisam		

Detailed Statement of Suitable Trees for Transplanting Chainagewise										
PACKAGE IV A (317-65)										
Sr	Chain -	Tree				RoadSide	Tree	Forest		
No	Age	Side	Girth	Hight	Age	Distance	Species	No	Remark	
	Kms	N/S	ft	ft	Yrs	Mtrs				
1	2	3	4	5	6	7	8	9	10	
181	34-35	N	5.027	35	10		12 Shisam			
182	34-35	N	4.398	32	8		14 Shisam			
183	34-35	N	4.398	32	8		14 Shisam			
184	34-35	N	6.283	35			15 Shisam			
185	34-35	N	6.283	35	12		12 New Plant			
186	34-35	N	5.969	35	10		10 Shisam			
187	34-35	N	3.77	30	8		15 Shisam			
188	34-35	N	3.77	28	8		20 Shisam			
189	34-35	N	3.77	29	8		18 Shisam			
190	34-35	N	4.712	28	8		8 Shisam			
191	34-35	N	4.712	30	8		8 Shisam			
192	34-35	N	4.712	28	8		8 Shisam			
193	34-35	N	3.77	25	8		8 Shisam			
194	34-35	N	3.77	22	8		10 Shisam			
195	34-35	N	3.77	22	8		10 Shisam			
196	34-35	N	4.084	25	8		10 Shisam			
197	34-35	N	4.084	25	8		8 Shisam			
198	34-35	N	4.398	28	9		8 Shisam			
199	34-35	N	4.712	30	9		10 Shisam			
200	34-35	N	5.027	30	9		11 Shisam			
201	35-36	N	6.912	55	12		12 Neem			
202	35-36	N	5.027	30	10		10 Shisam		Pwd Line Parallel To Railway Line	
203	35-36	N	5.655	35	10		10 Shisam			
204	35-36	N	6.283	35	12		10 Shisam			
205	35-36	N	6.283	35	10		10 Shisam			
206	35-36	N	6.283	35	10		10 Shisam			
207	35-36	N	8.168	40	12		10 Shisam			
208	35-36	N	3.142	25	8		10 Shisam			
209	35-36	N	8.168	30	15		10 Shisam			
210	35-36	N	8.80	35	14		10 Shisam			
211	35-36	N	6.912	32	12		10 Shisam			
212	35-36	N	4.40	30	12		10 Shisam			
213	35-36	N	3.77	28	10		10 Shisam			
214	35-36	N	3.77	30	10		10 Shisam			
215	35-36	N	5.655	30	10		10 Shisam			
216	35-36	N	3.77	30	8		9 Shisam			
217	35-36	N	3.77	30	8		10 Shisam			
218	35-36	N	3.77	30	8		10 Shisam			
219	35-36	N	5.027	32	10		10 Shisam			
220	35-36	N	5.027	32	10		8 Shisam			
221	35-36	N	5.027	35	10		8 Shisam			
222	35-36	N	5.027	30	8		12 Shisam			
223	35-36	N	5.027	32	8		12 Shisam			
224	35-36	N	5.027	32	10		6 Shisam			
225	37-38	N	6.283	35	12		6 Shisam			

Detailed Statement of Suitable Trees for Transplanting Chainagewise									
PACKAGE IV A (317-65)									
Sr No	Chain - Age	Side	Tree Girth	Tree Hight	RoadSide	Tree Distance	Tree Species	Forest No	Remark
	Kms	N/S	ft	ft	Yrs	Mtrs			
1	2	3	4	5	6	7	8	9	10
226	37-38	N	5.027	28	10		10	Shisam	
227	37-38	N	5.027	28	10		13	Shisam	
228	37-38	N	5.027	30	10		12	Shisam	
229	37-38	N	5.027	30	10		12	Shisam	
230	37-38	N	5.655	35	10		10	Shisam	
231	37-38	N	5.655	35	10		8	Shisam	
232	37-38	N	5.655	32	8		10	Shisam	
233	37-38	N	6.283	28	10		12	Shisam	
234	37-38	N	6.283	28	10		10	Shisam	
235	37-38	N	6.912	35	12		10	Albizia	
236	38-39	N	6.283	30	10		12	Banyan	
237	38-39	S	5.655	30	10		14	Shisam	
238	38-39	S	5.655	30	10		16	Shisam	
239	38-39	S	5.027	20	8		12	Shisam	
240	38-39	S	6.283	32	10		14	Shisam	
241	38-39	S	5.027	20	12		14	Shisam	
242	38-39	S	5.027	25	8		14	Shisam	
243	38-39	S	6.283	30	10		14	Shisam	
244	38-39	S	5.655	22	8		12	Shisam	
245	38-39	S	6.283	30	10		12	Shisam	
246	38-39	S	5.027	30	8		12	Shisam	
247	38-39	S	5.655	30	8		14	Shisam	
248	39-41								Village Sayyadraja
249	41-42	N							20# Trees Not Marked W/L
250	43-44								Check post
251	48-49	N	3.77	28	8		5	Shivan	
252	48-49	N	3.77	25	8		5	Shivan	
253	48-49	N	10.05	35	12		20	Pipal	
254	48-49	N	6.283	28	8		5	Shivan	
255	48-49	N	6.283	30	8		5	Shivan	
256	48-49	N	6.283	30	8		5	Shivan	
257	48-49	N	4.712	30	10		5	Shivan	
258	48-49	N	6.283	30	10		6	Shivan	
259	48-49	N	7.854	32	8		6	Shivan	
260	50-51	N	7.854	30	12		7	Neem	
261	50-51	N	7.854	30	12		7	Neem	
262	50-51	N	7.854	30	12		7	Neem	
263	50-51	N	7.854	32	12		7	Neem	
264	50-51	N	7.854	32	12		7	Neem	
265	50-51	N	7.54	32	12		6	neem	
266	50-51	N	6.912	30	10		5	neem	
267	51-52	N	8.168	32	12		5	Shisam	
268	51-52	N	5.655	2.5	10		5	Shivan	
269	51-52	N	9.425	40	15		6	Pipal	
270	54-55	N	9.425	42	15		6	Banyan	

Detailed Statement of Suitable Trees for Transplanting Chainagewise									
PACKAGE IV A (317-65)									
Sr	Chain -		Tree			RoadSide	Tree	Forest	
No	Age	Side	Girth	Hight	Age	Distance	Species	No	Remark
	Kms	N/S	ft	ft	Yrs	Mtrs			
1	2	3	4	5	6	7	8	9	10
271	54-55	N	7.54	35	10	6	Shisam		
272	54-55	N	6.912	25	10	12	Shivan		
273	54-55	N	5.027	25	8	6	Pipal		
274	54-55	N	6.283	30	10	5	Shivan		
275	55-56	N	8.168	35	12	5	Shisam		
276	55-56	N	5.655	35	10	6	Shivan		
277	60-61	N	3.142	20	5	6	Gulmohar		
278	60-61	N	3.77	20	6	6	Gulmohar		
279	60-61	N	6.283	25	8	14	Pipal		
280	60-61	N	6.283	20	10	14	Karanj		

**Detailed Statement of Suitable Trees for Transplantation Chainagewise
Package IV A(317Kms- 65 Kms)**

Sr No	Chain -		Side	Girth	Hight	Age	roadside		Forest		Remark
	Age	Kms					Distance	Species	No.		
1	2	3	N/S	ft	ft	Yrs	Mtrs	8	9	10	
281	317.000	N	3.14	35	13	10	Sisam				
282	317.000	N	3.14	40	13	10	Sisam				
283	317.000	N	4.71	45	20	10	Sisam				
284	317.000	N	5.76	50	24	10	Sisam				
285	317.000	N	3.66	45	16	10	Sisam				
286	317.000	N	4.19	35	16	10	Sisam				
287	317.000	N	3.40	35	15	5	Sisam				
288	317.000	N	3.14	35	13	10	Sisam				
289	317.000	N	3.40	40	14	10	Sisam				
290	317.000	N	3.40	40	14	10	Sisam				
291	317.000	N	3.14	40	13	8	Sisam				
292	317.000	N	4.19	45	18	8	Sisam				
293	317.000	N	4.97	50	22	10	Sisam				
294	317.000	N	4.19	45	18	8	Sisam				
295	317.000	N	4.19	40	15	5	Sisam				
296	317.000	N	3.66	50	16	5	Sisam				
297	317.000	N	4.45	45	20	5	Sisam				
298	317.000	N	3.40	40	15	5	Sisam				
299	317.000	N	3.93	45	17	8	Sisam				
300	317.000	N	3.66	45	16	5	Sisam				
301	317.000	N	3.40	40	15	10	Sisam				
302	317.000	N	4.19	45	18	10	Sisam				
303	317.000	N	4.19	45	18	10	Sisam				
304	317.000	N	3.14	40	14	5	Sisam				
305	317.000	N	4.19	45	18	10	Sisam				
306	317.000	N	3.14	35	13	10	Sisam				
307	317.000	N	4.71	45	22	10	Sisam				
308	317.000	N	4.19	50	18	5	Sisam				
309	317.000	N	3.14	40	8	5	Cassia				
310	317.000	N	3.40	35	8	5	Cassia				
311	317.000	N	5.23	25	25	5	Mango				
312	317.000	N	3.14	35	14	5	Neem				
313	318.000	N	4.19	45	20	5	Mango				
314	318.000	N	4.19	45	18	5	Sisam				
315	318.000	N	5.23	40	22	5	Ficus				
316	318.000	N	4.45	45	18	5	Sisam				
317	318.000	N	4.97	35	20	5	Sisam				
318	318.000	N	6.28	45	28	5	Sisam				
319	318.000	N	4.97	45	24	5	Sisam				
320	318.000	N	4.71	40	20	5	Sisam				
321	318.000	N	3.40	35	13	5	Sisam				
322	318.000	N	5.23	45	24	5	Sisam				
323	318.000	N	3.14	35	13	5	Sisam				
324	21.600	N	3.14	45	1	5	Jamun				
325	21.000	N	3.93	35	17	10	Sisam				
326	21.000	N	3.93	45	16	10	Sisam				
327	21.000	N	4.71	40	20	5	Sisam				
328	21.000	N	6.28	50	26	5	Sisam				
329	21.000	N	3.40	35	13	5	Sisam				
330	21.000	N	3.40	45	13	10	Sisam				
331	21.000	N	3.14	45	13	10	Sisam				
332	21.000	N	3.93	45	14	10	Sisam				
333	21.000	N	3.93	45	14	10	Arjun				
334	21.000	N	4.19	45	18	10	Arjun				
335	21.000	N	6.02	50	24	5	Sisam				
336	21.000	N	6.02	50	24	5	Sisam				
337	21.000	N	3.93	35	12	5	Jamun				
338	21.000	N	3.14	40	10	5	Arjun				
339	21.000	N	3.40	40	13	5	Jamun				

340	21.000	N	3.40	40	13	5	Jamun		
341	21.000	N	3.14	35	12	5	Jamun		
342	21.000	N	3.14	35	12	5	Jamun		
343	21.000	N	3.66	45	12	5	Arjun		
344	21.000	N	3.14	35	12	5	Jamun		
345	21.000	N	3.40	35	12	5	Jamun		
346	21.000	N	3.14	40	10	5	Arjun		
	22.200								Ptrtol Pump Water logging
67	22.400	N	4.19	40	14	5	Arjun		
68	22.000	N	3.66	40	12	5	Arjun		
69	22.000	N	3.40	45	12	5	Arjun		
70	22.000	N	3.40	45	12	5	Sisam		
71	22.000	N	4.19	45	15	5	Arjun		
72	22.000	N	4.19	45	17	5	Sisam		
73	22.000	N	3.14	40	13	5	Sisam		
74	22.000	N	3.14	35	15	5	Bargad	Vad	
75	22.000	N	3.66	35	11	5	Karanj		
76	22.000	N	3.40	35	13	5	Sisam		
77	22.000	N	4.71	40	20	5	Sisam		
78	22.000	N	3.14	40	13	5	Sisam		
79	22.000	N	3.14	35	10	5	Karanj		
80	22.000	N	3.14	35	13	5	Sisam		
81	22.000	N	3.14	35	13	5	Sisam		
82	22.000	N	4.45	35	15	10	Karanj		
83	22.000	N	4.45	35	15	10	Karanj		
84	22.000	N	4.71	35	15	10	Karanj		
85	22.000	N	3.66	30	12	5	Karanj		
86	22.000	N	4.45	35	15	10	Karanj		
87	22.000	N	5.23	35	24	5	Ficus		
88	22.000	N	4.45	30	15	10	Karanj		
89	22.000	N	3.14	35	13	10	Sisam		
90	22.000	N	3.40	35	13	10	Sisam		
91	22.000	N	3.14	40	13	10	Sisam		
92	22.000	N	3.14	45	13	10	Sisam		
93	22.000	N	3.40	45	13	10	Sisam		
94	23.000	N	4.45	35	15	5	Raintree		
95	23.000	N	5.76	40	20	5	Raintree		
96	23.000	N	3.93	40	15	5	Raintree		
97	24.000	N	4.45	45	18	5	Sisam		
98	24.000	N	3.66	45	15	5	Sisam		
99	24.000	N	3.93	40	16	5	Sisam		
100	24.000	N	3.14	35	13	10	Sisam		
101	24.000	N	3.66	35	13	10	Sisam		
102	24.000	N	3.14	35	13	10	Sisam		
103	24.000	N	4.19	40	14	10	Sisam		
104	24.000	N	3.14	35	13	10	Sisam		Water Loagging area
105	24.000	N	3.40	40	13	10	Sisam		
106	24.000	N	3.14	35	13	10	Sisam		
107	24.000	N	3.40	35	11	5	Raintree		
108	24.000	N	3.66	35	16	10	Ficus		
109	24.000	N	3.14	35	13	10	Sisam		
110	24.000	N	3.40	35	13	10	Sisam		Water Loagging area
111	24.000	N	3.40	35	13	10	Sisam		
112	24.000	N	3.14	40	13	10	Sisam		
113	24.000	N	3.14	40	13	10	Sisam		
114	24.000	N	3.40	35	13	5	Sisam		
115	24.000	N	3.14	35	13	5	Sisam		
116	24.000	N	3.14	40	13	5	Sisam		
117	24.000	N	3.14	35	13	5	Sisam		
118	24.000	N	3.14	35	13	5	Sisam		
119	24.000	N	3.40	45	13	5	Sisam		
120	24.000	N	3.40	45	13	5	Sisam		
121	24.000	N	3.40	35	13	5	Sisam		
122	24.000	N	3.66	35	13	5	Sisam		
123	24.000	N	3.14	40	13	5	Sisam		

124	24 000	N	3.66	45	13	5	Sisam		
125	24 000	N	3.40	35	13	10	Sisam		
126	24 000	N	3.40	45	13	10	Sisam		
127	24 000	N	3.93	45	14	10	Sisam		
128	24 000	N	3.66	45	14	10	Sisam		
129	24 000	N	4.19	50	14	10	Sisam		
130	24 000	N	3.40	45	14	10	Sisam		
131	24 000	N	3.66	45	14	10	Sisam		
132	24 000	N	4.71	50	20	8	Sisam		
133	24 000	N	3.40	45	13	10	Sisam		
134	24 000	N	3.40	45	13	10	Sisam		
135	25 000	N	3.93	45	16	10	Sisam		
136	25 000	N	3.66	40	16	10	Sisam		
137	25 000	N	4.19	45	18	10	Sisam		
138	25 000	N	3.40	45	14	10	Sisam		
139	25 000	N	3.66	50	14	10	Sisam		
140	25 000	N	4.71	45	20	8	Sisam		
141	25 000	N	5.50	35	20	8	Jamun		
142	25 000	N	3.14	35	13	10	Sisam		
143	25 000	N	3.14	40	13	10	Sisam		
144	25 000	N	4.45	40	19	8	Sisam		
145	25 000	N	5.23	35	18	8	Jamun		
146	25 000	N	3.40	35	14	8	Jamun		
147	25 000	N	3.66	35	15	8	Sisam		
148	25 000	N	3.66	35	15	8	Sisam		
149	25 000	N	5.76	40	24	8	Sisam		
150	25 000	N	5.50	45	24	8	Sisam		
151	25 000	N	3.40	25	16	8	Ficus		
152	25 000	N	3.14	35	10	8	Jamun	} Behind these trees some trees are suitable for transplanting. Water logging exists behind these trees	
153	25 000	N	3.66	35	11	8	Raintree		
154	25 000	N	3.40	35	14	10	Sisam		
155	25 000	N	3.66	45	14	10	Sisam		
156	25 000	N	3.93	40	16	8	Sisam		
157	25 000	N	4.45	45	18	8	Sisam		
158	25 000	N	3.40	35	14	10	Sisam		
159	25 000	N	3.40	35	14	10	Sisam		
160	25 000	N	3.66	40	14	10	Sisam		
161	25 000	N	3.40	45	14	12	Sisam		
162	25 000	N	3.66	40	14	12	Sisam		
163	25 000	N	3.93	40	14	12	Sisam		
164	25 000	N	3.14	35	13	15	Jamun		
165	25 000	N	3.66	35	14	10	Sisam		
166	25 000	N	4.19	45	18	10	Sisam		
167	25 000	N	3.40	35	14	15	Sisam		
168	25 000	N	3.66	40	15	15	Sisam		
169	25 000	N	3.14	45	13	15	Sisam		
170	25 000	N	3.66	45	13	15	Sisam		
171	25 000	N	3.40	45	14	15	Sisam		
172	25 000	N	4.45	50	20	15	Sisam		
173	25 000	N	4.19	35	18	15	Sisam		
174	25 000	N	3.14	40	13	15	Sisam		
175	25 000	N	3.14	40	13	15	Sisam		
176	25 000	N	3.93	45	16	15	Sisam		
177	25 000	N	4.19	45	16	10	Sisam		
178	25 000	N	3.40	45	14	15	Sisam		
179	25 000	N	4.19	40	18	15	Sisam		
180	25 000	N	4.45	50	19	10	Sisam		
181	25 000	N	3.40	35	14	10	Jamun		
182	25 000	N	3.14	35	14	10	Jamun		
183	25 000	N	3.40	35	14	10	Jamun		
184	25 000	N	4.45	45	20	12	Sisam		
185	25 000	N	3.66	45	16	12	Sisam		
186	25 000	N	3.14	45	14	12	Sisam		
187	25 000	N	4.19	45	17	12	Sisam		
188	25 000	N	4.45	50	20	12	Sisam		

124	24 000	N	3.66	45	13	5	Sisam		
125	24 000	N	3.40	35	13	10	Sisam		
126	24 000	N	3.40	45	13	10	Sisam		
127	24 000	N	3.93	45	14	10	Sisam		
128	24 000	N	3.66	45	14	10	Sisam		
129	24 000	N	4.19	50	14	10	Sisam		
130	24 000	N	3.40	45	14	10	Sisam		
131	24 000	N	3.66	45	14	10	Sisam		
132	24 000	N	4.71	50	20	8	Sisam		
133	24 000	N	3.40	45	13	10	Sisam		
134	24 000	N	3.40	45	13	10	Sisam		
135	25 000	N	3.93	45	16	10	Sisam		
136	25 000	N	3.66	40	16	10	Sisam		
137	25 000	N	4.19	45	18	10	Sisam		
138	25 000	N	3.40	45	14	10	Sisam		
139	25 000	N	3.66	50	14	10	Sisam		
140	25 000	N	4.71	45	20	8	Sisam		
141	25 000	N	5.50	35	20	8	Jamun		
142	25 000	N	3.14	35	13	10	Sisam		
143	25 000	N	3.14	40	13	10	Sisam		
144	25 000	N	4.45	40	19	8	Sisam		
145	25 000	N	5.23	35	18	8	Jamun		
146	25 000	N	3.40	35	14	8	Jamun		
147	25 000	N	3.66	35	15	8	Sisam		
148	25 000	N	3.66	35	15	8	Sisam		
149	25 000	N	5.76	40	24	8	Sisam		
150	25 000	N	5.50	45	24	8	Sisam		
151	25 000	N	3.40	25	16	8	Ficus		
152	25 000	N	3.14	35	10	8	Jamun		Behind these trees some trees are suitable for transplanting. Water logging exists behind these trees
153	25 000	N	3.66	35	11	8	Raintree		
154	25 000	N	3.40	35	14	10	Sisam		
155	25 000	N	3.66	45	14	10	Sisam		
156	25 000	N	3.93	40	16	8	Sisam		
157	25 000	N	4.45	45	18	8	Sisam		
158	25 000	N	3.40	35	14	10	Sisam		
159	25 000	N	3.40	35	14	10	Sisam		
160	25 000	N	3.66	40	14	10	Sisam		
161	25 000	N	3.40	45	14	12	Sisam		
162	25 000	N	3.66	40	14	12	Sisam		
163	25 000	N	3.93	40	14	12	Sisam		
164	25 000	N	3.14	35	13	15	Jamun		
165	25 000	N	3.66	35	14	10	Sisam		
166	25 000	N	4.19	45	18	10	Sisam		
167	25 000	N	3.40	35	14	15	Sisam		
168	25 000	N	3.66	40	15	15	Sisam		
169	25 000	N	3.14	45	13	15	Sisam		
170	25 000	N	3.66	45	13	15	Sisam		
171	25 000	N	3.40	45	14	15	Sisam		
172	25 000	N	4.45	50	20	15	Sisam		
173	25 000	N	4.19	35	18	15	Sisam		
174	25 000	N	3.14	40	13	15	Sisam		
175	25 000	N	3.14	40	13	15	Sisam		
176	25 000	N	3.93	45	16	15	Sisam		
177	25 000	N	4.19	45	16	10	Sisam		
178	25 000	N	3.40	45	14	15	Sisam		
179	25 000	N	4.19	40	18	15	Sisam		
180	25 000	N	4.45	50	19	10	Sisam		
181	25 000	N	3.40	35	14	10	Jamun		
182	25 000	N	3.14	35	14	10	Jamun		
183	25 000	N	3.40	35	14	10	Jamun		
184	25 000	N	4.45	45	20	12	Sisam		
185	25 000	N	3.66	45	16	12	Sisam		
186	25 000	N	3.14	45	14	12	Sisam		
187	25 000	N	4.19	45	17	12	Sisam		
188	25 000	N	4.45	50	20	12	Sisam		

189	25 000	N	3.40	30	18	15	Ficus	Umbar	
190	25 000	N	4.97	50	24	8	Sisam		
191	25 000	N	6.54	35	28	8	Mango		
192	25.000	N	3.14	35	13	15	Sisam		
193	25 000	N	4.19	45	18	15	Sisam		
194	25 000	N	4.19	60	18	15	Sisam		
195	26 000	N	4.19	50	18	15	Sisam		
196	26 000	N	3.66	50	16	15	Sisam		
197	26 000	N	4.19	50	18	10	Sisam		
198	26.000	N	4.71	50	20	10	Sisam		
199	26.000	N	3.66	50	16	10	Sisam		
200	26.000	N	3.93	50	16	15	Sisam		
201	26.000	N	6.02	50	28	5	Sisam		
202	26.000	N	3.40	50	14	10	Sisam		
203	26.000	N	3.14	45	13	15	Sisam		
204	26.000	N	3.14	55	13	15	Sisam		
205	26.000	N	3.14	50	13	15	Sisam		
206	26.000	N	3.40	45	13	15	Sisam		
207	26.000	N	3.40	55	13	15	Sisam		
208	26.000	N	3.40	45	13	15	Sisam		
209	26.000	N	3.66	55	15	15	Sisam		
210	26.000	N	3.66	55	15	15	Sisam		
211	26.000	N	4.19	50	18	15	Sisam		
212	26.000	N	4.45	55	18	15	Sisam		
213	26.000	N	3.40	45	14	10	Sisam		
214	26.000	N	3.40	45	14	10	Sisam		
215	26.000	N	3.40	45	14	10	Sisam		
216	26.000	N	3.93	50	18	15	Sisam		
217	26.000	N	3.14	45	13	8	Sisam		
218	26.000	N	4.19	50	18	10	Sisam		
219	26.000	N	3.93	50	18	10	Sisam		
220	26.000	N	3.66	50	15	10	Sisam		
221	26.000	N	3.93	50	18	10	Sisam		
222	26.000	N	3.66	50	16	10	Sisam		
223	26.000	N	3.66	50	16	10	Sisam		
224	26.000	N	3.40	55	16	10	Sisam		
225	26.000	N	3.14	50	13	10	Sisam		
226	26.000	N	4.97	50	23	10	Sisam		
227	26.000	N	3.40	40	13	10	Sisam		
228	26.000	N	6.02	50	27	10	Sisam		
229	26.000	N	4.71	50	23	10	Sisam		
230	26.000	N	3.66	55	16	10	Sisam		
231	26.000	N	3.14	45	13	10	Sisam		
232	26.000	N	3.40	40	13	10	Sisam		
233	26.000	N	3.14	45	13	10	Sisam		
234	26.000	N	4.45	45	20	10	Sisam		
235	26.000	N	3.40	40	15	15	Sisam		
236	26.000	N	3.93	40	15	15	Sisam		
237	26.000	N	3.66	45	16	18	Sisam		
238	26.000	N	3.40	40	14	15	Sisam		
239	26.000	N	3.93	55	18	10	Sisam		
240	26.000	N	3.14	40	14	15	Sisam		
241	26.000	N	3.93	45	18	15	Sisam		
242	26.000	N	3.14	40	14	15	Sisam		
243	26.000	N	3.40	45	14	15	Sisam		
244	26.000	N	3.40	45	14	12	Sisam		
245	26.000	N	3.93	50	18	8	Sisam		
246	26.000	N	4.19	45	18	8	Sisam		
247	26.000	N	3.66	45	16	8	Sisam		
248	26.000	N	4.19	40	20	10	Sisam		
249	26.000	N	4.19	40	20	10	Sisam	Near Canal	
250	27.000	N	5.23	45	24	8	Mango		
251	27.000	N	6.02	45	25	8	Mango		
252	27.000	N	4.97	50	22	8	Sisam		
253	27.000	N	4.19	45	18	8	Sisam		

254	27 000	N	4.19	45	18	6	Sisam		
255	27 000	N	4.71	50	22	8	Sisam		
256	27 000	N	4.97	40	22	8	Raintree		
257	27 000	N	4.71	45	22	8	Sisam		
258	27 000	N	3.14	40	14	8	Sisam		
259	27 000	N	3.14	45	14	8	Sisam		
260	27 000	N	5.23	45	18	8	Raintree		
261	27 000	N	4.19	50	18	10	Sisam		
262	27 000	N	3.40	45	14	10	Sisam		
263	27 000	N	3.66	45	15	12	Sisam		
264	27 000	N	3.66	45	15	12	Sisam		
265	27 000	N	3.66	45	15	12	Sisam		
266	27 000	N	3.14	40	14	12	Sisam		
267	27 000	N	3.40	40	14	15	Sisam		
268	27 000	N	3.14	40	14	15	Sisam		
269	27 000	N	3.66	40	15	12	Sisam		
270	27 000	N	4.19	45	18	10	Sisam		
271	27 000	N	3.40	45	15	10	Sisam		
272	27 000	N	3.14	40	13	10	Sisam		
273	27 000	N	3.40	40	15	10	Sisam		
274	27 000	N	3.66	40	15	10	Sisam		
275	27 000	N	3.66	45	15	10	Sisam		
276	27 000	N	5.23	50	24	8	Sisam		
277	27 000	N	4.19	50	18	15	Sisam		
278	27 000	N	3.40	40	10	15	Gulmohor		
279	27 000	N	9.42	45	40	8	Pipal		
280	27 000	N	3.93	45	18	10	Sisam		
281	27 000	N	3.93	45	12	8	Gulmohor		
282	34 550	N	4.19	40	18	12	Sisam		
283	34 000	N	3.66	40	16	12	Sisam		
284	34 000	N	3.40	40	14	12	Sisam		
285	34 000	N	3.40	40	14	10	Sisam		
286	34 000	N	3.14	40	13	15	Sisam		
287	34 000	N	3.14	45	13	15	Sisam		
288	34 000	N	3.93	45	18	12	Sisam		
289	34 000	N	4.19	45	18	12	Sisam		
290	34 000	N	3.93	45	18	12	Sisam		
291	34 000	N	3.40	45	15	12	Sisam		
292	34 000	N	3.93	40	18	12	Sisam		
293	34 000	N	3.14	40	15	12	Sisam		
294	34 000	N	3.40	40	15	12	Sisam		
295	34 000	N	3.93	50	18	12	Sisam		
296	34 000	N	3.40	40	14	12	Sisam		
297	34 000	N	5.76	35	26	12	Sisam		
298	34 000	N	3.14	40	13	12	Sisam		
299	34 000	N	3.93	45	17	12	Sisam		
300	34 000	N	3.14	45	13	12	Sisam		
301	34 000	N	3.93	45	18	12	Sisam		
302	34 000	N	3.40	45	15	12	Sisam		
303	34 000	N	3.14	40	14	12	Sisam		
304	34 000	N	3.14	35	14	12	Sisam		
305	34 000	N	3.40	40	14	15	Sisam		
306	34 000	N	3.40	45	14	15	Sisam		
307	51 000	N	7.07	40	32	8	Arjun		
308	51 000	N	5.50	45	24	8	Arjun		
309	51 000	N	3.93	35	18	8	Neem		
310	51 000	N	3.66	35	16	6	Arjun		
311	51 000	N	7.07	30	32	6	Arjun		
312	51 000	N	5.50	35	24	8	Neem		
313	51 000	N	7.33	35	32	8	Arjun		
314	51 000	N	8.11	35	36	6	Arjun		
315	51 000	N	8.37	40	38	6	Emli		
316	51 000	N	8.11	40	38	6	Emli		
317	51 000	N	6.54	40	28	5	Sisam		
318	51 000	N	3.14	40	13	10	Sisam		

319	51.000	N	3.40	30	15	10	Jamun		
320	51.000	N	3.14	40	14	10	Sisam		
321	51.000	N	3.14	40	14	10	Sisam		
322	51.000	N	4.19	30	20	15	Sisam		
323	51.000	N	3.14	35	14	15	Sisam		
324	51.000	N	3.14	35	14	15	Sisam		
325	51.000	N	3.14	35	14	10	Sisam		
326	51.000	N	3.14	35	14	10	Sisam		
327	51.000	N	3.14	30	14	5	Sisam		
328	51.000	N	3.40	40	14	15	Sisam		
329	51.000	N	3.40	40	14	10	Sisam		
330	51.000	N	3.40	40	14	10	Sisam		
331	51.000	N	3.14	40	14	10	Sisam		
332	51.000	N	3.14	40	14	10	Sisam		
333	51.000	N	3.40	35	14	15	Sisam		
334	51.000	N	3.14	35	14	10	Sisam		
335	51.000	N	3.14	40	14	15	Sisam		
336	51.000	N	3.14	35	14	15	Sisam		
337	51.000	N	5.50	40	18	20	Raintree		Hotel Kaimur
338	51.000	N	3.14	35	14	10	Sisam		
339	51.000	N	3.14	34	14	15	Sisam		
340	51.000	N	3.14	35	14	15	Sisam		
341	51.000	N	3.40	35	15	10	Arjun		
342	51.000	N	3.40	35	14	15	Sisam		
343	51.000	N	3.40	35	14	15	Sisam		
344	51.000	N	3.14	35	13	20	Arjun		
345	51.000	N	3.40	35	13	10	Arjun		
346	51.000	N	3.14	35	14	10	Sisam		
347	51.000	N	3.93	30	18	10	Arjun		
348	51.000	N	3.14	30	10	20	Karanj		
349	51.000	N	3.40	35	10	10	Raintree		
350	51.000	N	5.50	40	24	5	Sisam		
351	51.000	N	3.14	40	14	20	Raintree		
352	51.000	N	3.40	40	15	20	Raintree		
353	51.000	N	3.40	35	14	20	Sisam		
354	51.000	N	3.14	35	14	20	Sisam		
355	51.000	N	3.14	40	17	20	Sisam		
356	51.000	N	3.14	35	14	20	Sisam		
357	55.000	N	3.40	30	8	20	cassia		
358	55.000	N	3.40	40	8	15	cassia		
359	55.000	N	3.14	40	8	15	cassia		
360	55.000	N	3.14	35	8	15	cassia		
361	55.000	N	3.66	35	8	15	cassia		
362	55.000	N	4.71	30	12	15	cassia		
363	55.000	N	3.40	35	15	20	Sisam		
364	55.000	N	3.14	35	14	20	Sisam		
365	55.000	N	3.40	35	15	20	Sisam		
366	55.000	N	3.14	30	8	20	cassia		
367	55.000	N	3.14	30	8	15	cassia		
368	55.000	N	3.14	35	10	15	Raintree		
369	55.000	N	3.14	35	14	20	Sisam		
370	55.000	N	3.66	40	16	20	Sisam		
371	55.000	N	3.40	35	15	20	Sisam		
372	55.000	N	3.14	35	15	20	Sisam		
373	55.000	N	3.14	45	14	20	Sisam		
374	55.000	N	3.14	40	14	20	Sisam		
375	55.000	N	3.14	35	14	20	Sisam		
376	55.000	N	3.40	40	14	20	Sisam		
377	55.000	N	3.14	30	14	20	Sisam		
378	55.000	N	3.40	35	14	20	Sisam		
379	55.000	N	3.14	25	14	20	Arjun		
380	55.000	N	3.14	35	14	15	Arjun		
381	55.000	N	4.71	35	24	15	Arjun		
382	56.000	N	3.14	40	16	15	Arjun		
383	60.000	N	6.28	30	26	15	Arjun		

384	60.000	N	4.45	45	19	15	Arjun		
385	60.000	N	6.54	45	28	20	Arjun		
386	60.000	N	4.71	35	14	20	Karanj		
387	60.000	N	6.80	40	24	20	Raintree		
388	60.000	N	4.45	35	15	20	Karanj		
389	60.000	N	4.19	35	15	20	Karanj		
390	60.000	N	3.66	35	15	20	Karanj		
391	60.000	N	3.14	35	10	20	Karanj		
392	60.000	N	3.14	35	10	20	Karanj		
393	60.000	N	3.14	35	10	20	Karanj		

Detailed Statment of Suitable Trees for Transplantation ChainAgewise										
Package IVC (110-140 Kms)										
Sr	Chain -		Tree			RoadSide	Tree	Forest		
No	Age	Side	Girth	Hight	Age	Distance	Species	No.	Remark	
	Kms	N/S	ft	ft	Yrs	Mtrs				
1	2	3	4	5	6	7	8	9	10	
1	110-111	N	3.46	18	6	5	Sivan		Before Small Mandir on RHS	
2	"	N	3.77	26	8	6	Shisam		Bushy Plantation of Babool	
3	"	N	4.40	27	9	7	Shisam			
4	"	N	4.40	26	8	6	Shisam			
5	"	N	4.40	28	8	7	Shisam			
6	"	N	3.77	27	8	7	Shisam			
7	"	N	3.77	27	8	7	Shisam			
8	"	N	3.46	25	7	5	Shisam			
9	"	N	3.77	24	8	5	Shisam			
10	"	N	3.77	26	8	5	Shisam			
11	"	N	4.08	28	8	5	Shisam			
12	"	N	3.77	26	8	5	Shisam			
13	"	N	3.77	24	7	5	Shisam			
14	"	N	3.77	24	8	5	Shisam			
15	"	N	3.77	22	7	4	Shisam			
16	"	N	4.08	22	7	4	Shisam			
17	"	N	4.08	25	8-12	5-12	Shisam		40 # Trees Not Marked -Water Logging	
18	111-130								Sasaram By Pass	
19	130-132	N	4.40	27	7	8	Shisam			
20	"	N	5.03	30	8	10	Sivan			
21	"	N	5.34	32	9	10	Sivan			
22	"	N	5.34	30	9	9	Sivan			
23	"	N	5.34	32	9	9	Sivan			
24	"	N	5.34	32	9	8	Sivan			
25	"	N	5.34	34	9	7	Sivan			
26	"	N	5.03	32	9	7	Shisam			
27	"	N	5.65	34	9	7	Shisam			
28	"	N	5.65	32	9	7	Shisam			
29	132-133	N	8.80	20	10	4	Ashoka			
30	"	S	11.00	40	15	7	Pipal			
31	"	S	8.17	32	10	4	Neem			
32	"	S	8.48	30	10	6	Pipal			
33	133-134	S	11.00	35	15	6	Bad			
34	"	N	5.03	30	8	10	Neem			
35	"	N	5.65	25	10	12	Jamu			
36	"	N	6.91	30	12	9	Pipal			
37	"	N	6.91	32	12	10	Pipal		Dehri	
38	139-140	N	3.77	25	8	6	Jamu		After Dehri On Sone	
39	"	N	3.77	28	7	5	Cassia			
40	"	N	3.77	28	7	5	Cassia		Large no. of Cassia Plantation on Both	
41	"	N	3.77	28	7	5	Cassia		side of Road aging between 2 to 4 yrs	
42	"	N	3.77	28	7	5	Cassia			
43	"	N	3.77	28	7	10	Cassia			
44	"	N	3.77	28	7	9	Cassia			
45	"	N	4.08	28	10	8	Shisam		Sernagar Vidyalay	
46	"	N	6.91	35	14	9	Pipal			

Detailed Statement of Suitable Trees for Transplantation Chainagewise

Package IV C (110 Kms- 140 Kms)

Sr No	Chain -		Side	Girth ft	Hight ft	Age Yrs	roadside		Forest		Remark
	Age	Kms					N/S	Distance Mtrs	Species	No.	
1	2	3	4	5	6	7	8	9	10		
47	130 600	N	4.19	45	18	8	Sisam				
48	130 000	N	3.14	30	14	12	Sisam				
49	130 000	N	3.14	35	14	11	Sisam				
50	130 000	N	3.40	40	14	12	Sisam				
51	130 000	N	3.40	40	14	12	Sisam				
52	130 000	N	3.66	45	16	12	Sisam				
53	130 000	N	3.40	45	16	12	Sisam				
54	130 000	N	3.66	40	16	12	Sisam				
55	130 000	N	3.14	45	14	12	Sisam				
56	130 000	N	3.93	40	16	12	Sisam				
57	130 000	N	3.14	40	14	10	Sisam				
58	130 000	N	3.40	40	15	10	Sisam				
59	130 000	N	3.66	40	15	12	Sisam				
60	130 000	N	3.14	40	14	10	Sisam				
61	130 000	N	3.14	40	14	10	Sisam				
62	130 000	N	3.14	40	14	10	Sisam				
63	130 000	N	3.14	40	14	10	Sisam				
64	130 000	N	3.40	40	15	13	Sisam				
65	130 000	N	3.40	40	15	10	Sisam				
66	130 000	N	3.40	40	15	12	Sisam				
67	130 000	N	3.40	40	15	12	Sisam				
68	130 000	N	3.40	40	15	12	Sisam				
69	130 000	N	3.66	40	16	10	Sisam				
70	130 000	N	4.19	40	18	10	Sisam				
71	130 000	N	3.14	35	14	10	Sisam				
72	130 000	N	3.66	40	16	8	Sisam				
73	130 000	N	3.66	35	16	12	Sisam				
74	130 000	N	3.93	30	17	12	Sisam				
75	130 000	N	3.14	30	14	8	Sisam				
76	130 000	N	3.14	35	14	12	Sisam				
77	130 000	N	3.14	35	14	12	Sisam				
78	130 000	N	3.14	35	14	12	Sisam				
79	130 000	N	3.14	35	14	12	Sisam				
80	130 000	N	3.40	35	15	10	Sisam				
81	130 000	N	3.14	35	15	12	Sisam				
82	130 000	N	3.14	35	14	12	Sisam				
83	130 000	N	3.14	30	14	10	Sisam				
84	130 000	N	3.66	30	16	10	Sisam				
85	130 000	N	3.14	40	14	10	Sisam				
86	130 000	N	3.14	40	14	10	Sisam				
87	130 000	N	3.14	40	14	10	Sisam				
88	130 000	N	3.14	40	14	10	Sisam				
89	130 000	N	4.19	40	18	12	Sisam				
90	130 000	N	3.14	35	13	12	Sisam				
91	130 000	N	3.40	35	13	12	Sisam				
92	130 000	N	3.14	40	13	15	Sisam				
93	130 000	N	3.14	40	13	15	Sisam				
94	130 000	N	3.14	40	13	15	Sisam				
95	130 000	N	3.14	40	13	15	Sisam				
96	130 000	N	3.40	45	15	12	Sisam				
97	130 000	N	3.14	35	13	12	Sisam				
98	130 000	N	3.40	40	15	10	Sisam				
99	130 000	N	3.40	40	15	10	Sisam				
100	130 000	N	3.14	35	13	10	Sisam				
101	130 000	N	3.14	35	12	10	Sisam				
102	130 000	N	3.14	30	14	15	Arjun				
103	130 000	N	4.97	30	16	15	Raintree				
104	130 000	N	3.40	45	15	15	Sisam				
105	130 000	N	3.14	40	15	12	Sisam				

Detailed Statement of Suitable Trees for Transplantation Chainagewise

Package VB (243 Kms- 319 Kms)

Sr No	Chain -		Tree				roadside	Forest		Remark
	Age	Side	Gurth	Hight	Age	Distance	Species	No.		
	Kms	N/S	ft	Yrs		Mtrs				
1	2	3	4	5	6	7	8	9	10	
45	"	S	5.03	25	10		8	Karanj		
46	272-273	S	6.28	28	10		9	Pipal		
47	"	S	8.80	32	12		10	Shisam		
48	"	S	3.46	35	8		12	Cassia		
49	"	S	3.77	30	10		10	Shisam		
50	"	S	3.77	32	10		10	Shisam		
51	"	S	3.77	30	10		10	Shisam		
52	"	S	3.46	28	10		10	Shisam		
53	"	S	3.77	30	10		10	Shisam		
54	"	S	4.08	30	11		11	Shisam		
55	"	S	3.77	28	8		12	Cassia		
56	"	S	3.77	28	8		12	Cassia		
57	"	S	3.77	28	8		12	Cassia		
58	"	S	3.77	25	8		8	Cassia		
59	"	S	3.77	24	8		14	Cassia		
60	"	S	4.08	25	8		12	Cassia		
61	"	S	3.77	25	8		12	Cassia		
62	"	S	3.46	24	8		12	Cassia		
63	"	S	3.46	24	8		12	Cassia		
64	"	S	3.77	26	10		12	Shisam		
65	"	S	3.77	26	10		12	Shisam		
66	274-275	S	3.77	25	8		6	Cassia		
67	"	S	3.46	24	8		6	Cassia		
68	"	S	3.77	24	8		6	Cassia		
69	"	S	3.77	25	8		6	Cassia		
70	"	S	3.46	24	8		6	Cassia		
71	"	S	3.77	24	8		8	Cassia		
72	"	S	3.77	22	8		6	Cassia		
73	"	S	3.77	22	8		6	Cassia		
74	"	S	3.77	22	8		6	Cassia		
75	"	S	3.77	22	8		6	Cassia		
76	"	S	5.65	22	7		6	Cassia		
77	"	S	6.28	22	7		6	Cassia		
78	"	S	7.54	30	12		10	Albizia	H.T. Wire Nearby	
79	"	S	3.77	24	8		7	Cassia		
80	"	S	3.46	24	8		7	Cassia		
81	"	S	3.77	25	8		7	Cassia		
82	"	S	3.77	24	8		7	Cassia		
83	276-277	N	6.28	30	8		6	kadam	Singhawan Village	
84	"	S	3.46	25	8		7	Cassia		
85	"	S	3.46	24	8		5	Cassia		
86	"	S	3.46	22	8		5	Cassia		
87	"	S	3.46	24	8		5	Cassia		
88	"	S	3.77	22	8		10	Cassia		

Detailed Statement of Suitable Trees for Transplantation Chainagewise										
Package VB (243 Kms- 319 Kms)										
Sr	Chain -		Tree			roadside	Forest			
No	Age	Side	Gurth	Hight	Age	Distance	Species	No.	Remark	
	Kms	N/S		ft	Yrs	Mtrs				
1	2	3	4	5	6	7	8	9	10	
89	"	S	3.77	22	8	10	Cassia			
90	"	S	3.77	28	8	7	Shisam			
91	"	S	3.77	25	8	9	Cassia			
92	"	S	3.77	25	8	7	Cassia			
93	"	S	4.08	28	10	12	Albizia			
94	"	S	3.77	25	8	7	Cassia			
95	"	S	3.77	29	10	12	Shisam			
96	"	S	4.08	28	10	12	Shisam			
97	"	S	3.77	15	8	7	Cassia			
98	"	S	5.03	25	10	7	Cassia			
99	"	S	3.46	24	7	14	Shisam			
100	"	S	3.46	24	8	7	Cassia			
101	"	S	3.77	25	8	6	Cassia			
102	279-280	S	5.03	30	12	9	Shisam			
103	"	S	3.77	30	10	9	Shisam			
104	"	S	3.46	26	10	10	Shisam			
105	"	S	3.77	24	8	8	Cassia			
106	"	S	3.77	24	8	10	Cassia			
107	"	S	3.77	27	10	15	Cassia			
108	"	S	3.46	27	10	10	Cassia			
109	"	S	3.46	27	10	8	Cassia			
110	"	S	4.08	27	9	8	Cassia			
111	"	S	3.46	26	8	8	Cassia			
112	"	S	3.46	26	8	15	Cassia			
113	"	S	3.46	26	8	10	Cassia			
114	"	S	3.46	26	9	10	Shisam			
115	"	S	3.46	27	8	8	Cassia			
116	"	S	3.46	25	8	8	Cassia			
117	"	S	3.46	27	8	10	Cassia			
118	"	S	3.46	27	8	8	Cassia			
119	"	S	3.77	27	8	10	Cassia			
120	"	S	3.77	26	8	8	Cassia			
121	"	S	3.77	27	10	10	Cassia			
122	"	S	3.77	26	8	8	Cassia			
123	"	S	3.46	27	10	10	Shisam			
124	"	S	3.77	26	8	10	Cassia			
125	"	S	3.77	26	8	10	Cassia			After Barakar River
126	"	S	3.46	26	8	6	Cassia			
127	"	S	3.77	26	8	10	Cassia			
128	"	S	3.77	27	8	6	Cassia			
129	"	S	3.46	25	8	10	Cassia			
130	"	S	3.77	26	8	12	Cassia			
131	"	S	3.77	26	8	10	Cassia			
132	"	S	3.46	26	8	12	Cassia			

Detailed Statement of Suitable Trees for Transplantation Chainagewise

Package VB (243 Kms- 319 Kms)

Sr	Chain -		Tree			roadside		Forest	
No	Age	Side	Gurth	Hight	Age	Distance	Species	No.	Remark
	Kms	N/S		ft	Yrs	Mtrs			
1	2	3	4	5	6	7	8	9	10
133	"	S	3.77	26	8	6	Cassia		
134	"	S	3.46	28	10	8	Shisam		
135	"	S	3.77	27	8	12	Cassia		
136	"	S	3.46	27	8	6	Cassia		
137	"	S	3.77	28	8	12	Cassia		
138	"	S	3.46	26	8	6	Cassia		
139	"	S	3.77	27	8	8	Cassia		
140	"	S	3.77	25	8	8	Cassia		
141	"	S	3.46	25	8	12	Cassia		
142	"	S	4.08	26	8	8	Cassia		
143	"	S	3.77	28	8	12	Cassia		
144	"	S	4.08	30	10	8	Shisam		
145	"	S	3.77	28	9	10	Cassia		
146	"	S	3.77	28	8	12	Cassia		
147	"	S	3.77	28	9	6	Cassia		
148	"	S	3.77	28	9	12	Cassia		
149	"	S	3.77	28	9	6	Cassia		Barhi
150	"	S	4.08	28	9	12	Cassia		
151	"	S	3.77	30	9	6	Cassia		
152	"	S	3.77	30	9	8	Cassia		
153	"	S	4.08	28	9	10	Cassia		
154	"	S	3.77	30	9	8	Cassia		
155	"	S	3.77	22	8	10	Cassia		
156	"	S	4.08	24	8	8	Cassia		
157	"	S	3.77	28	8	8	Cassia		
158	"	S	3.77	26	8	10	Cassia		
159	"	S	3.77	30	10	6	Cassia		
160	"	S	3.77	32	9	9	Cassia		
161	"	S	3.77	32	9	7	Cassia		
162	"	S	4.40	28	9	7	Shisam		
163	"	S	4.40	24	8	6	Cassia		
164	"	S	4.40	18	8	7	Cassia		
165	"	S	4.71	18	8	6	Cassia		
166	"	S	4.71	30	9	7	Shisam		
167	"	S	7.23	32	10	6	Shisam		
168	"	S	7.85	35	12	6	Pipal		
169	"	S	3.77	24	8	6	Cassia		
170	"	S	3.77	25	8	8	Cassia		
171	"	S	4.08	25	9	6	Cassia		
172	"	S	3.77	25	8	6	Cassia		
173	"	S	3.77	25	10	8	Cassia		
174	"	S	4.08	25	8	6	Cassia		
175	"	S	3.77	25	8	8	Cassia		
176	290-291	S	5.65	18	8				

Detailed Statement of Suitable Trees for Transplantation Chainagewise

Package VB (243 Kms- 319 Kms)

Sr No	Chain -		Tree			roadside	Forest	Remark	
	Age	Side	Gurth	Hight	Age	Distance	Species		No.
	Kms	N/S		ft	Yrs	Mtrs			
1	2	3	4	5	6	7	8	9	10
177	"	S	6.28	18	10	12	Kadam		
178	"	S	6.60	32	10	12	Kadam		
179	"	S	6.91	35	10	12	Kadam		
180	"	S	6.28	40	12	12	Pelto		
181	"	S	8.80	40	12	4	Kadam		
182	"	S	8.80	35	12	4	Kadam		
183	"	S	6.28	28	10	4	Mahuva		
184	"	S	8.17	35	12	4	Karanj		
185	"	S	6.28	35	10	5	Gulmohor		
186	"	S	6.91	32	12	12	Salai		
187	"	S	6.28	18	6	3	Pepal		
188	292-293	S	6.28	25	8	8	Gulmohor		
189	"	S	6.28	28	10	6	Gulmohor		
190	"	S	6.28	29	8	6	Gulmohor		
191	293-294	S	8.17	35	12	8	Gulmohor		
192	294-295	S	9.42	38	12	10	Shivan		
193	"	S	6.60	30	10	2	Mahuva		
194	"	S	6.91	32	12	2	Mahuva		
195	"	S	6.60	30	12	2	Neem		
196	296-297	N	6.60	28	10	2	Neem		
197	"	N	6.91	25	8	3	Mahuva		
198	"	S	6.28	20	8	10	Mahuva		
199	"	S	6.28	22	10	4	Mahuva		Hill Side
200	"	S	5.65	20	10	4	Palas		
201	"	S	6.28	20	10	4	Palas		
202	299-300	S	7.23	40	10	3	Shevar		
203	"	S	3.77	25	5	14	Kadamb		
204	"	S	3.77	30	10	14	Shisam		
205	"	S	3.77	24	8	8	Cassia		
206	"	S	6.28	35	12	15	Arduso		
207	"	S	5.65	35	12	10	Arduso		
208	300-301	S	9.42	40	15	3	Shevar		
209	"	S	3.77	25	10	8	Neem		
210	"	S	4.08	25	10	8	Neem		
211	301-302	S	5.65	26	10	8	Gmohar		
212	"	S	5.97	28	10	8	Gmohar		
213	"	S	5.65	25	10	9	Gmohar		
214	"	S	10.05	38	12	6	Shevar		Petrol Pump Dhangari Station
215	"	S	8.48	35	10	3	Mahuva		
216	"	S	9.11	32	10	18	Pipal		
217	302-303	S	5.65	30	8	10	Shevar		
218	"	S	6.91	35	10	5	Mahuva		
219	303-304	S	5.65	25	8	14	Shevar		
220	"	N	8.80	25	12	3	Pepal		

Detailed Statement of Suitable Trees for Transplantation Chainagewise										
Package VB (243 Kms- 319 Kms)										
Sr	Chain -		Tree			roadside		Forest		
No	Age	Side	Gurth	Hight	Age	Distance	Species	No.	Remark	
	Kms	N/S		ft	Yrs	Mtrs				
1	2	3	4	5	6	7	8	9	10	
221	304-305	N	3.77	15	5	10	gulmohor			
222	"	N	9.11	50	12	6	Shevar			
223	307-308	N	6.91	35	12	8	Shevar			
224	"	N	5.03	18	6	8	Drumstick			
225	"	N	3.77	20	6	8	Drumstick			
226	308-309	N	5.65	20	6	8	Drumstick		Bazar	
227	"	N	6.28	25	6	8	Drumstick			
228	"	N	6.28	22	8	10	Drumstick		Barakatta Village	
229	"	N	5.65	15	6	10	Drumstick			
230	"	N	5.65	15	6	8	Drumstick			
231	"	N	5.65	15	6	6	Drumstick			
232	"	N	6.91	15	6	5	Drumstick		Surya Kund/ Barakatta	
233	312-313	N	6.91	35	12	4	Salai			
234	"	N	6.28	25	10	5	Mahuva			
235	"	N	8.48	18	8	5	Vad			
236	"	N	8.17	22	10	5	Vad			
237	"	N	8.17	25	12	3	Vad		Gorhar Police Station	
238	"	N	10.05	50	15	12	Simur			
239	"	N	10.05	50	15	10	Simur			
240	"	N	10.05	30	12	15	Mahuva			
241	"	N	10.37	35	12	4	Vad			
242	"	N	8.80	35	10	4	Vad			
243	313-314	N	9.42	40	12	4	Mahuva			
244	"	S	9.42	35	12	15	Mahuva			
245	"	S	9.42	35	12	10	Mahuva			
246	"	S	7.23	25	8	5	Vad			
247	"	S	7.23	35	12	12	Mahuva			
248	314-319								No Trees are suitable as Old Trees	

Detailed Statement of Suitable Trees for Transplantation Chainagewise										
Package VB (243 Kms- 319 Kms)										
Sr	Chain -		Tree			roadside		Forest		
No	Age	Side	Gurth	Hight	Age	Distance	Species	No.	Remark	
1	2	3	4	5	6	7	8	9	10	
	Kms	N/S		ft	Yrs	Mtrs				
1	243-244	S	6.91	25	10	10	Palas		After Dobhi	
2	"	S	6.91	25	10	12	Palas			
3	"	S	6.91	25	10	10	Palas			
4	"	S	3.77	25	8	10	Palas			
5	"	S	3.77	20	8	8	Palas			
6	"	S	3.77	20	8	8	Palas			
7	"	S	6.91	30	8	7	New			
8	"	S	6.91	20	10	7	Palas			
9	"	S	6.91	30	10	10	Palas			
10	"	S	3.77	30	8	5	Shivan			
11	"	S	6.28	30	10	3	Palas			
12	"	S	6.91	30	10	5	Shivan			
13	"	S	5.65	30	10	8	Palas			
14	"	S	5.65	35	10	7	Palas			
15	247-248	N	6.28	35	12	6	Palas			
16	"	N	6.91	35	12	7	Shivan			
17	"	N	6.91	35	12	6	Ally			
18	"	N	6.91	30	12	6	Shivan			
19	"	N	3.77	25	8	6	Shivan			
20	"	N	6.91	35	12	6	Shivan			
21	"	N	5.65	20	12	4	Palas			
22	"	N	6.28	35	12	5	Palas			
23	"	S	8.80	40	15	8	Shivan			
24	248-260								Chauparan Village No Tree	
25	261-262	N	7.85	20	8	10	Gulmohar			
26	"	N	3.46	20	8	10	Palas			
27	"	N	3.46	20	8	10	Palas			
28	"	N	3.46	20	8	7	Palas			
29	"	N	3.46	20	6	7	Palas			
30	"	N	3.77	20	8	7	Ally			
31	"	N	3.46	20	8	7	Shisam			
32	"	S	3.77	18	8	6	Cassia			
33	263-265								Valley Both Side , Deuri River Bridge	
34	265-266	S	3.77	25	8	7	Cassia			
35	"	S	4.40	25	10	8	Shisam			
36	"	S	3.46	22	8	8	Shisam			
37	"	S	4.08	22	8	7	Cassia			
38	"	S	3.77	28	10	7	Cassia			
39	"	S	3.77	22	8	7	Cassia			
40	"	S	3.46	88	8	7	Shisam			
41	265-267								No Trees	
42	267-269	S	4.50	25	5-12	5-15			15# Trees Not Marked	
43	270-271	S	5.65	25	8	8	Cassia			
44	"	S	5.03	22	8	8	Cassia			