

**BP Submission For
Private/Public Building Developments**

NParks

CONTENTS

PART 1 INFORMATION REQUIREMENTS

1. Plans, Application Form and Checklist

A registered architect / professional engineer is required to submit and sign all layers of drawing digitally, a completed NParks' application form, and relevant checklist and enclose the letter of authorization from the developer:

The plans should comprise of:

- (a) Key and location plans of the development site (scale 1 : 10000 or 1 : 5000) with access to the site from a street or road
- (b) Site plan showing the development proposal (scale 1 : 500, 1 : 200 or 1 : 100)
- (c) Lot and/or plot number of the lots on both sides of the development site
- (d) Address of the development site (if applicable)
- (e) 1st storey plan (scale 1 : 500, 1 : 200 or 1 : 100)
- (f) Basement plan (scale 1 : 500, 1 : 200 or 1 : 100)

2. Site Information (if applicable)

| | | Layout Plan | Cross Sectional Drawing |
|-----|--|-------------|-------------------------|
| (a) | Development boundary verged in red. | Indicate | |
| (b) | Proposed development layout.. | Indicate | |
| (c) | Existing and proposed road reserve line verged in red. | Indicate | |
| (d) | Category of existing and proposed roads. | Indicate | |
| (e) | Width of the proposed roads. | Indicate | |
| (f) | Existing and proposed levels of the development site. | Indicate | |
| (g) | Basement line highlighted in brown dotted line. | Indicate | |
| (h) | Boundary / retaining wall is to be highlighted in orange. | Indicate | |
| (i) | Fire engine access and hardstanding areas. | Indicate | |
| (j) | Schematic engineering drawing with dimensions of retaining / boundary wall and foundation. | | Indicate |

3. Existing Trees / Palms / Shrubs

| | | Layout Plan | Cross Sectional Drawing |
|-----|---|-------------|-------------------------|
| (a) | All existing trees / palms / shrubs, with species, girth, height and the numbering indicated on the building plan, should be the same as those shown on the plan submitted to NParks at DC stage. | Indicate | |
| (b) | The colour code for existing trees / palms / shrubs is as follows: | Indicate | |

Table 3b – Colour Code for existing trees/palms/shrubs

| Status of existing trees/Palms / shrubs | Outline in colour |
|---|---|
| To be retained | Green |
| To be removed | Yellow |
| Removed without written approval | Red |
| Removed with written approval | *Yellow (indicate approval date in the tree schedule) |
| Non-existence after inspection | Indicate a 'cross' on tree symbol |

| | | Layout Plan | Cross Sectional Drawing |
|-----|--|-------------|-------------------------|
| (c) | Any changes on the status of the existing trees/palms/shrubs approved at DC stage are to be reflected in Annexes 1, 2 and 3. | | |

4. Photographs

Photographs of additional trees and single-stem palm approved for retention within development site in Tree Conservation Area or on vacant land are submitted.

Photographs of the trees numbered according to numbering shown on plan.

5. Planting Provision

| | | Layout Plan | Cross Sectional Drawing |
|-----|---|-------------|-------------------------|
| (a) | All proposed green buffer/planting verges/roadside planting verges as stated in DC stage are coloured green on the site plan and 1 st storey plan. | Indicate | |
| (b) | Widths of all proposed planting provisions provided in 5(a) are indicated. | Indicate | |
| (c) | All slopes are shown on plan with standard symbols. The gradients of all proposed slope are shown. | Indicate | Indicate |

6. Planting Scheme

(only applicable to Public building, Good Class Bungalows, Apartment and Condominium developments)

| | | Layout Plan | Cross Sectional Drawing |
|--|--|-------------|-------------------------|
| | Location and species of proposed and existing trees/single stem palms are shown. | Indicate | |
| | A legend for proposed trees is to be provided (Please use colours other than green, red and yellow). | | |

7. Hedge Planting Around Proposed Bin Centre And Substation

(only applicable to Public building development)

| | Layout Plan | Cross Sectional Drawing |
|--|-------------|-------------------------|
| Hedge planting to be indicated on plan with a wavy green line. | Indicate | |

8. Proposed SWA Section 18 Road (if applicable)

| | Layout Plan | Cross Sectional Drawing |
|-----------------------------|-------------|-------------------------|
| Width of the proposed roads | Indicate | |

PART II Division 1B Regulatory Requirements

1 Conservation Of Trees / Single-Stem Palms Within Development Site

(only applicable if the development is within the gazetted Tree Conservation Area or on vacant land)

| | Layout Plan | Cross Sectional / Detail Plan |
|---|-------------|-------------------------------|
| The Tree Protection Zone (TPZ) provided from centre of retained tree / single-stem palm as approved by NParks at DC stage is indicated. | Indicate | |

2 Retention Of Existing Roadside Trees

| | Layout Plan | Cross Sectional / Detail Plan |
|---|-------------|-------------------------------|
| The clearance between an existing tree / a single stem palm and the proposed elements approved by NParks at DC stage should be indicated. | Indicate | |

3 Planting Provision

| | Layout Plan | Cross Sectional / Detail Plan |
|-----|---|-------------------------------|
| 3.1 | The planting verges and green buffer should be in accordance with the NParks DC approved plan. | |
| 3.2 | Other than those listed in Annex 10 and structures approved by URA, all green buffers must be free from encroachment above and below planting levels. | Indicate/endorse |
| 3.3 | All proposed planting verges should be generally flat (gradient not steeper than 1:40). Proposed slope, if any, should not be steeper than 1:2.5. | Indicate |
| 3.4 | Locations of proposed fire engine access and fire engine hardstanding area are to be accordance with NParks DC approved plan. | Indicate |

4 Planting Provision For At-Grade Open Surface Vehicular Parking Area

| | | Layout Plan | Cross Sectional / Detail Plan |
|-----|--|-------------|-------------------------------|
| 4.1 | Planting provisions are to be provided in accordance to NParks DC approved plan. They are also be free from any encroachment above and below planting levels. | Indicate | |
| 4.2 | All car parking lots are to be fully laid with aeration slabs, if applicable. Each piece of slab should have at least 35% aeration with all the void areas turfed. | Indicate | |
| 4.3 | Drawing of the perforated slab and calculation of the aeration areas are to be shown on plan. | Indicate | |

5 Hedge Planting

(only applicable to government school project)

| | | Layout Plan | Cross Sectional / Detail Plan |
|-----|---|-------------|-------------------------------|
| 5.1 | Hedges are to be planted within the approved 1.0m wide planting verges around bin centre and substation as approved by NParks at DC stage | Indicate | |
| 5.2 | For school sites, hedges are to be planted along the perimeter fence. | Indicate | |
| 5.3 | For hedge planting, each stem should have a height of 1m and planted at 0.5m c/c. | Indicate | |

6 Tree / Palm Planting Requirements

(only applicable to Public building developments)

6.1 Size and planting hole of a sapling tree / single stem palm / cluster palm

| | | Layout Plan | Cross Sectional / Detail Plan |
|-----|--|-------------|-------------------------------|
| (a) | A sapling tree should have: | Endorse | |
| | i) total overall height 2.5m with clear trunk height 1.5m (measured from soil level) | | |
| | ii) girth at least 0.1m | | |
| | iii) upright and in good form | | |
| | iv) staking provided as and when required | | |
| | v) terminal shoot | | |
| (b) | A single stem palm should have | Endorse | |
| | i) total overall height 2.0m (measured from soil level) | | |
| | ii) upright and in good form | | |
| | iii) spear must be intact | | |
| | iv) staking provided as and when required | | |
| (c) | A cluster palm should have : | Endorse | |
| | i) total overall height 2.0m (measured from soil level) | | |
| | ii) upright and in good form | | |
| | iii) minimum 4 suckers | | |
| (d) | A planting hole for a sapling tree / single stem palm / cluster palm should be 1m x 1m x 1m and backfilled with 3 parts of loamy soil and 1 part of organic matters (processed woodchips or compost) | Endorse | |

6.2 Planting Distance

| | Layout Plan | Cross Sectional / Detail Plan |
|--|-------------|-------------------------------|
| Planting distance for proposed trees / palms to be in accordance as shown in Annex 11. | Indicate | |

7 Proposed SWA Section 18 Roads (if applicable)

| | Layout Plan | Cross Sectional / Detail Plan |
|-------------------------|-------------|-------------------------------|
| Width of proposed road. | Indicate | |

Annex 2 Existing Tree / Single Stem Palms On Neighbouring Lot

(Up to a distance of 5.0m from the site boundary)

| Serial No. | Tree / Palm No. | Botanical Name of Trees / Single Stem Palms | Girth Size (m) | | Height (m) | Proposed to remove | | Proposed to retain | | *Reasons for removal / retention |
|---|-----------------|---|----------------|------------|------------|--------------------|--------|--------------------|--------|----------------------------------|
| | | | =< 1.0m (a) | > 1.0m (b) | | DC (c) | BP (d) | DC (e) | BP (f) | |
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| | | | | | | | | | | |
| Total Nos. of Trees / Single Stem Palms | | | | | | | | | | |

Annex 3 Existing Roadside Trees/ Palms/ Shrubs

Abutting The Development Boundary And Up To A Distance Of 10m On Both Sides Of Boundary

| Serial No. | Tree / No. | Botanical Name of Trees / Single Stem Palms | Girth Size (m) | | Trees proposed to remove | | Trees proposed to retain | | *Reasons for removal / retention |
|---|------------|---|----------------|------------|--------------------------|--------|--------------------------|--------|----------------------------------|
| | | | =< 1.0m (a) | > 1.0m (b) | DC (c) | BP (d) | DC (e) | BP (f) | |
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| Total Nos. of Trees / Single Stem Palms | | | | | | | | | |

| Serial No. | Palm / Shrub | Botanical Name of Cluster Palms and Shrubs | Height (m) | Nos | Trees proposed to remove | | Trees proposed to retain | | *Reasons for removal / retention |
|--------------------------------------|--------------|--|------------|-----|--------------------------|--------|--------------------------|--------|----------------------------------|
| | | | | | DC (c) | BP (d) | DC (e) | BP (f) | |
| | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| Total Nos. of Cluster Palms / Shrubs | | | | | | | | | |

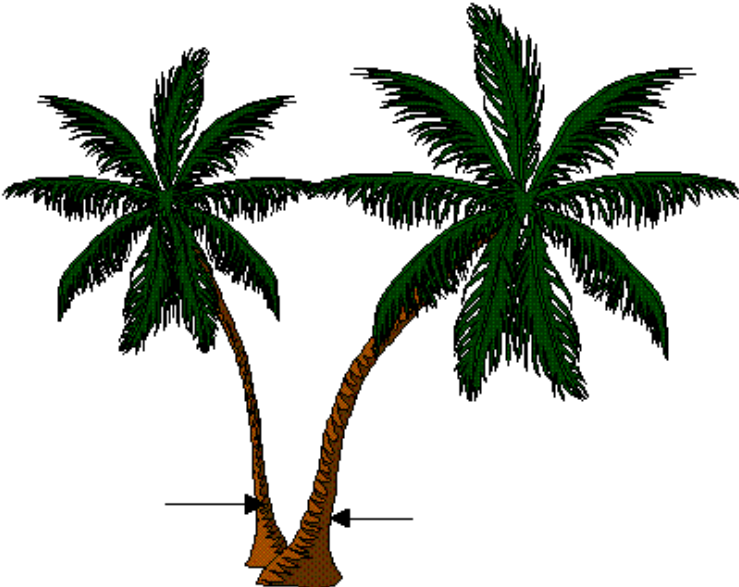
* Please refer to [Annex 3-1](#) for list of reasons

Annex 3-1 Reasons for Removal/Retention

| Reasons for Removal | | Reasons for Retention |
|---|----|--|
| main covered structure (ms) | | good/rare species (gs) within the buffer zone (bz) uncovered structures (us) within road widening plot (wp) |
| Ancillary buildings | | |
| e.g substation guard house bin centre | ss | |
| Outdoor recreational facilities | | |
| e.g swimming pool tennis courts playground car park | ou | |
| Vehicular access | | |
| driveway, fire engine access access to bin centre, substation footpath fire hardstanding area (fa) | va | |
| Other construction activities | | |
| roadside drain, surface drain (dn) boundary wall (bw) retaining wall (rw) basement encroachment into green verges (bv) basement outside green verges (bo) construction (temp) activities (ca) sewer line & manhole (sw) soil profile change in height (sc) | | |
| Health of tree | | |
| strike by lightning, wind throw (sl) unhealthy (decay, rot) (uh) poor form (pf) hazard (hz) | | |

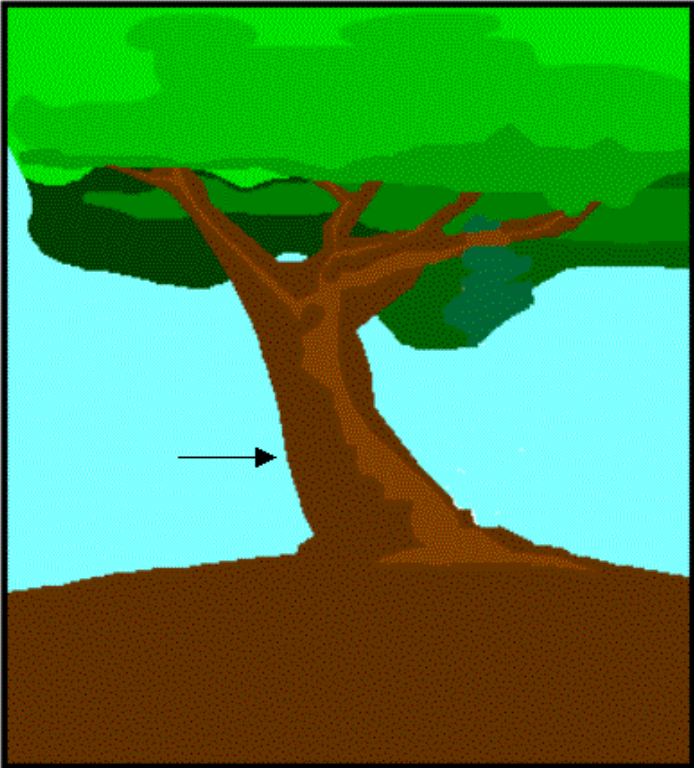
Annex 4-1 Girth Measurement for Multi-leader Tree (leaders sprout from collar)

For this type of multi-leader tree where the leaders sprout from the collar, measure the girth of each individual stem, and treat each stem as a separate tree. (arrowed)



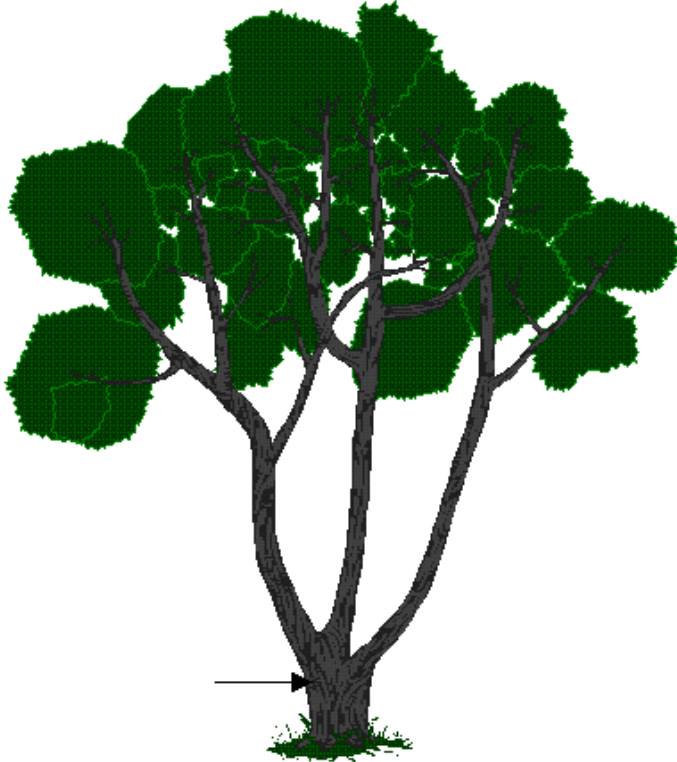
Annex 4-2 Girth Measurement for Buttressed Tree

For this type of buttressed tree, measure the girth at 0.5 metres height above the ground (arrowed)



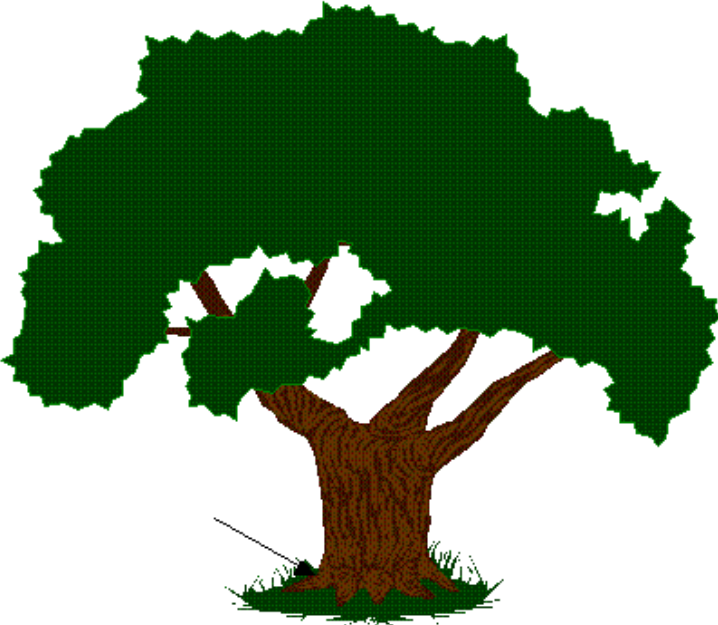
Annex 4-3 Girth Measurement for Multi-leader Tree (at a point between collar)

For this type of multi-leader tree, measure the girth at a point between the collar and 0.5 metres height above the ground. (arrowed)



Annex 4-4 Girth Measurement for Tree Growing On A Mound

For this type of tree growing on a mound, measure the 0.5 metres height above the ground next to the collar (arrowed), and **not** at the base of the mound.



Annex 10 – Structure In Green Buffer & Peripheral Planting Verge

(I) MINOR ANCILLARY STRUCTURES ALLOWED WITHIN GREEN BUFFER & PERIPHERAL PLANTING VERGES

| S/N0 | Structures | REMARKS |
|------|---|--|
| 1 | Flag poles | |
| 2 | Lamp posts and landscape light fittings | |
| 3 | Guard house & Bin centre | |
| 4 | OG Boxes | |
| 5 | Inspection chamber & minor sewer lines | Minor sewer line must be laid at least 2.0m below planting level |
| 6 | Water bulk meter | |
| 7 | Industrial water pipes | Water pipes must be laid at least 2.0m below planting level |
| 8 | Fire hydrant | |
| 9 | Entrance gate/post | |
| 10 | Metering compartment | |
| 11 | Vehicular impact guardrails. | |

(II) STRUCTURES NOT ALLOWED WITHIN GREEN BUFFER & PERIPHERAL PLANTING VERGES

| S/N0 | Structures | REMARKS |
|------|--------------------------------|--|
| 1 | Fire engine hardstanding areas | |
| 2 | Drain and access covers | Except for crossings running perpendicular to planting verge |
| 3 | Sign boards | |

Annex 11 Recommended Planting Distance/Spacing For Trees

Annex 11-1 LARGE TREES

Generally, large trees are only recommended for planting along major roads and expressways with planting verge greater than 3 metres in width and in open spaces like in parks, big traffic islands or interchanges.

| | SPECIES | APPROXIMATE HEIGHT WHEN MATURE (m) | RECOMMENDED SPACING (m) | |
|----|--|------------------------------------|-------------------------|------------|
| | | | ROADSIDE | OPEN SPACE |
| 1 | <i>Alstonia angustiloba</i> (Pulai) | 25 | 12 | 18 |
| 2 | <i>Azadirachta excelsa</i> (Sentang) | 20 | 12 | 18 |
| 3 | <i>Caesalpinia ferrea</i> (Brazilian Ironwood) | 20 | 12 | 18 |
| 4 | <i>Casuarina nobilis</i> (Sumatran Rhu) | 20 | 8 | 12 |
| 5 | <i>Couroupita guianensis</i> (Cannon Ball Tree) | 20 | 8 | 12 |
| 6 | <i>Dalbergia latifolia</i> | 15 | 12 | 18 |
| 7 | <i>Dalbergia oliveri</i> (Tamalan) | 20 | 12 | 12 |
| 8 | <i>Dyera costulata</i> (Jelutong) | 30 | 12 | 18 |
| 9 | <i>Erythrina variegata</i> (Variegated Coral Tree) | 15 | 12 | 18 |
| 10 | <i>Erythrophloeum guineense</i> (Ordeal Tree) | 30 | 18 | 24 |
| 11 | <i>Eucalyptus camaldulensis</i> | 25 | 8 | 12 |
| 12 | <i>Eugenia grandis</i> (Jambu Laut) | 25 | 12 | 16 |
| 13 | <i>Fagraea crenulata</i> | 25 | 18 | 16 |
| 14 | <i>Fagraea fragrans</i> (Tembusu) | 30 | 18 | 20 |
| 15 | <i>Filicium decipiens</i> (Fern Tree) | 24 | 12 | 16 |
| 16 | <i>Hopea odorata</i> | 25 | 8 | 12 |
| 17 | <i>Khaya grandifoliola</i> | 30 | 12 | 16 |
| 18 | <i>Khaya senegalensis</i> (Senegal Khaya) | 30 | 18 | 18 |
| 19 | <i>Mesua ferrea</i> (Ceylon Ironwood) | 20 | 12 | 18 |
| 20 | <i>Michelia alba</i> (White Chempaka) | 22 | 12 | 18 |
| 21 | <i>Millettia atropurpurea</i> (Purple Millettia) | 30 | 18 | 24 |
| 22 | <i>Peltophorum pterocarpum</i> (Yellow Flame) | 20 | 12 | 18 |
| 23 | <i>Pterocarpus indicus</i> (Angsana) | 30 | 18 | 24 |
| 24 | <i>Samanea saman</i> (Rain Tree) | 25 | 18 | 24 |
| 25 | <i>Swietenia macrophylla</i> (Broad leaf Mahogany) | 25 | 12 | 18 |
| 26 | <i>Tabebuia rosea</i> (Pink Poui) | 18 | 12 | 18 |
| 27 | <i>Tectona grandis</i> (Teak) | 20 | 12 | 18 |
| 28 | <i>Terminalia catappa</i> (Ketapang) | 30 | 12 | 18 |

Annexe 11-2 MEDIUM SIZED TREES

Generally, medium sized trees are recommended to be planted at major roads and some minor roads with a planting verges between 1.5 to 3.0 metres.

| | SPECIES | APPROXIMATE HEIGHT WHEN MATURE (m) | RECOMMENDED SPACING (m) | |
|----|---|------------------------------------|-------------------------|------------|
| | | | ROADSIDE | OPEN SPACE |
| 1 | Acacia mangium | 12 | 8 | 8 |
| 2 | Amherstia nobilis (Pride of Burma) | 12 | 10 | 16 |
| 3 | Arfeuillea arborescens (Hop Tree) | 12 | 8 | 10 |
| 4 | Bauhinia blakeana (Hong Kong Bauhinia) | 8 | 8 | 12 |
| 5 | Cananga odorata (Kenanga) | 15 | 8 | 10 |
| 6 | Cassia fistula (Golden Showers) | 18 | 8 | 12 |
| 7 | Cinnamomum iners (Wild Cinnamomum) | 12 | 8 | 10 |
| 8 | Citharexylum quadrangulare (Fiddle-wood) | 12 | 8 | 8 |
| 9 | Cochlospermum religiosum (Buttercup Tree) | 10 | 12 | 10 |
| 10 | Eucalyptus botryoides (Gum Tree) | 15 | 6 | 12 |
| 11 | Eucalyptus viminalis (Gum Tree) | 15 | 8 | 8 |
| 12 | Eugenia cumini (Jambolan) | 15 | 8 | 12 |
| 13 | Eugenia jambos (Rose Apple) | 8 | 8 | 12 |
| 14 | Eugenia polyantha (Buah Salam) | 15 | 8 | 12 |
| 15 | Gnetum gnemom (Meninjau) | 15 | 6 | 8 |
| 16 | Gustavia sp | 5 | 6 | 8 |
| 17 | Lagerstroemia speciosa (Rose of India) | 12 | 8 | 12 |
| 18 | Maniltoa browneoides (Handkerchief Tree) | 15 | 10 | 12 |
| 19 | Melaleuca leucadendron (Gelam) | 12 | 6 | 10 |
| 20 | Melia indica (Nim Tree) | 15 | 8 | 12 |
| 21 | Mimusops elengi (Bunga Tanjung) | 12 | 12 | 18 |
| 22 | Plumeria spp (Frangipani) | 8 | 8 | 10 |
| 23 | Podocarpus rumphii | 15 | 6 | 12 |
| 24 | Pongamia pinnata (Mempari) | 15 | 8 | 12 |
| 25 | Podocarpus polystacyus (Sea teak) | 15 | 6 | 8 |
| 26 | Saraca indica (Sorrowless Tree) | 8 | 8 | 12 |
| 27 | Saraca thaipingensis (Yellow Saraca) | 12 | 8 | 12 |
| 28 | Tamarindus indica (Tamarind Tree/Asam) | 12 | 8 | 12 |
| 29 | Xanthostemon chrysanthus | 12 | 8 | 12 |
| 30 | Eugenia oleina | 10 | 8 | 12 |
| 31 | Eugenia spicata | 12 | 8 | 12 |
| 32 | Eugenia longifolia | 12 | 8 | 12 |

Annexe 11-3 SMALL TREES

Generally, small trees are recommended to be planted on minor roads with narrow/ restricted planting with a width less than 1.6 metres.

| | SPECIES | APPROXIMATE HEIGHT WHEN MATURE (m) | RECOMMENDED SPACING (m) | |
|----|--|------------------------------------|-------------------------|------------|
| | | | ROADSIDE | OPEN SPACE |
| 1 | <i>Brassaia actinophylla</i> (Australian Ivy Palm) | 10 | 6 | 6 |
| 2 | <i>Callistemon citrinus</i> (Bottle Brush Tree) | 6 | 6 | 8 |
| 3 | <i>Callistemon viminalis</i> | 8 | 6 | 8 |
| 4 | <i>Carallia brachiata</i> | 8 | 6 | 6 |
| 5 | <i>Cratoxylum formosum</i> (Pink Empat) | 10 | 6 | 8 |
| 6 | <i>Crotoxylon cochinchinense</i> | 12 | 6 | 8 |
| 7 | <i>Erythrina glauca</i> (Coral Tree) | 8 | 6 | 10 |
| 8 | <i>Kopsia flavida</i> (Penang Sloe) | 8 | 6 | 8 |
| 9 | <i>Kopsia singaporensis</i> | 8 | 6 | 8 |
| 10 | <i>Melaleuca genistifolia</i> cv Golden Gem | 6 | 6 | 8 |

Annexe 11-4 ROADSIDE PALMS

Generally, palms are planted to create special effect or to achieve certain intended landscaping theme. For palms with bigger and longer frond length like Bismarckia, Latania, Washingtonia, only roads with sufficiently wide sidetables (> 4 metres) should be chosen for such plantings.

| | SPECIES | APPROXIMATE HEIGHT WHEN MATURE (m) | RECOMMENDED SPACING (m) | |
|----|---|------------------------------------|-------------------------|------------|
| | | | ROADSIDE | OPEN SPACE |
| 1 | Archontophoenix alexandrae (Alexandra palm) | 20 | 6 | 6 |
| 2 | Areca catechu (Betel nut palm) | 10 | 4 | 4 |
| 3 | Bentinckia nicobarica | 15 | 6 | 6 |
| 4 | Bismarckia nobilis (Bismarck palm) | 30 | 10 | 12 |
| 5 | Carpentaria acuminata (Carpentaria palm) | 20 | 4 | 4 |
| 6 | Caryota rumphiana/no (Solitary fishtail palm) | 25 | 6 | 6 |
| 7 | Chrysalidocarpus lucubensis | 8 | 4 | 4 |
| 8 | Cyrtostachys lakka/renda (Red sealing wax palm) | 10 | 6 | 6 |
| 9 | Dictyosperma album (Princess palm) | 15 | 6 | 6 |
| 10 | Dypsis decaryi (Triangular palm) | 10 | 3 | 3 |
| 11 | Hyphorbe vershaffeltii (Spindle palm) | 5 | 3 | 3 |
| 12 | Hyphorbe lagenicaulis (Bottle palm) | 5 | 3 | 3 |
| 13 | Latania lontaroides (Red Latan) | 18 | 8 | 10 |
| 14 | Latania verschaffeltii (Yellow Latan) | 16 | 8 | 10 |
| 15 | Licuala grandis (Vanuatu fan palm) | 5 | 4 | 4 |
| 16 | Licuala spinosa (Mangrove fan palm) | 5 | 4 | 4 |
| 17 | Livistona chinensis (Chinese fan palm) | 15 | 6 | 8 |
| 18 | Livistona rotundifolia (Footstool palm) | 15 | 6 | 6 |
| 19 | Pritchardia pacifica (Fiji fan palm) | 10 | 6 | 8 |
| 20 | Ptychoraphis singaporensis | 15 | 6 | 6 |
| 21 | Rhopaloblaste ceramica | 4 | 6 | 6 |
| 22 | Roystonea oleracea (Cabbage palm) | 30 | 6 | 8 |
| 23 | Roystonea regia (Royal palm) | 25 | 6 | 8 |
| 24 | Veitchia merrillii (Manila/Christmas palm) | 15 | 6 | 6 |
| 25 | Washingtonia robusta (Mexican fan palm) | 25 | 8 | 8 |
| 26 | Wodyetia bifurcata (Foxtail palm) | 12 | 6 | 6 |