

**Landscape Excellence Assessment Framework
Self-evaluation Form**



Please conduct a self-evaluation and fill in the points under the column: Score (Applicant). Submit the completed evaluation form with the application form and the supporting documents.

Name of Development : _____
(as approved by the Street and Building Names Board)

Name of Contact Person : _____

Contact Number : _____

Assessment Criteria	Rationale / Description	Scoring basis	SCORE (Applicant)	SCORE (Assessor)
Note: If the development is required to declare 'Not Applicable' (NA) status from any of the criteria below, please provide supporting documents for consideration of exemption.				
Part 1 – Greenery Provision and Design				
1 – 1 Greenery Provision				
i. Green Plot Ratio (entire site)	To encourage more greenery. Green Plot Ratio (GnPR) is calculated by considering the 3D volume covered by plants using the prescribed Leaf Area Index (LAI). Refer to Annex A for the calculation table and instructions.	1.0 to <2.0: 1 pt 2.0 to < 3.0: 2 pts 3.0 to < 5.0: 4 pts 5.0 to < 6.0: 6 pts 6.0 to < 7.0: 8 pts ≥7.0: 10 pts Max. 10 pts		
ii. Green Plot Ratio for buffer planting only (green buffer and peripheral planting verge)	To encourage planting of shade trees as well as lush landscaping within the green buffer and peripheral planting verges Use the calculation for Green Plot Ratio. Refer to Annex A for the calculation table and instructions.	10 to < 15: 1 pt 15 to < 20: 2 pts 20 to < 25: 3 pts 25 to < 30: 4 pts ≥30: 5 pts Max. 5 pts		

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<p>iii. Percentage of ground-level landscaped area</p>	<p>To recognise commitment of developers in allocating more spaces for greenery at ground-level.</p> <p>Refer to Annex A for the calculation table and instructions.</p>	<p>1.0 to <20%: 1 pt</p> <p>20-30%: 2 pt</p> <p>31-40%: 4 pts</p> <p>41-50%: 6 pts</p> <p>51- 60%: 8 pts</p> <p>≥ 60%: 10 pts</p> <p>Max. 10 pts</p>		
<p>iv. Skyrise Greenery</p>	<p>To encourage skyrise greenery</p> <p>Eg: Vertical green walls, balconies, planter boxes, terraces, rooftop garden, OG boxes, bin centres.</p>	<p>Fair: 2 pt</p> <p>Average: 4pts</p> <p>Good: 6 pts</p> <p>Very Good: 8 pts</p> <p>Excellent: 10 pts</p> <p>Max. 10 pts</p>		
<p>1 – 2 Plant Materials</p>				
<p>i. Native vs. Exotic</p>	<p>Native plants can provide habitats for native wildlife, and opportunities for environmental education</p> <p>Plants include trees, shrubs, palms, aquatic plants, and ground cover.</p> <p>Monoculture is not encouraged.</p> <p>“Native” refers to local and those within South East Asia. (Reference: http://florafaunaweb.nparks.gov.sg)</p> <p>Refer to Annex A for the calculation table and instructions.</p>	<p><i>Percentage of native plant species used</i></p> <p>10 to <25% : 1 pt</p> <p>25% to <45%: 2 pts</p> <p>45% to <75%: 3 pts</p> <p>≥75%: 4 pts</p> <p>Max. 4 pts</p> <p><i>Percentage of native plant species planted (Quantity)</i></p> <p>10 to <25% : 1 pt</p> <p>25% to <45%: 2 pts</p> <p>45% to <75%: 3 pts</p> <p>≥75%: 4 pts</p> <p>Max. 4 pts</p>		

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ii. Plant quality	To source plants from accredited nurseries. List of accredited nurseries can be found in https://www.cuge.com.sg/landscapeservices/Listing-of-Nursery-Accreditation-Scheme	Yes: 2 pts No: 0 pts Max. 2 pts		
1– 3 Overall Landscape Design				
i. Integration of landscaping with architectural design	To recognise efforts for creative landscaping design The quality and extent of planting within the architectural space will determine the number of points awarded.	Corridors: Up to 2 pts Lobbies: Up to 2 pts Rooftop: Up to 2 pts Ancillary structures: Up to 2 pts Façade: Up to 2 pts Max. 10 pts		
1–4 Sustainable Landscape Management				
i. Ease of maintenance	Any proposed measures to ensure sustainable maintenance of the development Eg. Choice of plants	Low impact measure: 1 pt High impact measure: 3 pts Max.7 pts		
ii. Irrigation system	To encourage efficient irrigation methods, e.g. rainwater harvesting, soil moisture sensors etc. and have provision of water/irrigation plan	- Percentage of auto-irrigated landscaped area: <50%: 1 pt ≥50%: 2 pts - Provision of rainwater storage tanks : 1 pt Max. 3 pts		
Part 2 – Conservation				
2 – 1 Retention of Existing Trees (Pro-rated on case-by-case basis)				
i. Retain mature tree(s) of girth more than 1m measured 0.5m	To encourage retention of existing mature trees if they are suitable species. To encourage developers to propose innovative designs	Information on existing trees (species, girth size		

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<p>from the ground, at existing location(s) captured in topographic survey</p>	<p>incorporating the mature tree(s). Please include information on the percentage of existing trees retained against number of trees felled.</p> <p>Refer to Annex A for the calculation table and instructions.</p>	<p>etc.), indicating tree retention/felling: 1 pt</p> <p>Efforts to retain/transplant existing trees: Up to 4pts</p> <p>Actual retention of existing mature trees and quality of retained tree(s): Up to 5pts</p> <p>Max. 10 pts</p>		
2 – 2 Habitat Creation & Wildlife Species Enhancement				
<p>i. Consideration for original/existing flora and fauna within the site and/or its surroundings before development</p>	<p>Understanding of original site condition (eg. Existing flora and fauna)</p>	<p>Fair: 1 pt Average: 2 pts Good: 3 pts Very good: 4 pts Excellent: 5 pts Max. 5 pts</p>		
<p>ii. Biodiversity sensitive planting and design</p>	<p>To provide interest in form, structural diversity, food (berries and nectar), and shelter for wildlife. In landscaping, the use of horticultural varieties or artificial structures can still be beneficial.</p> <p>To encourage planting of biodiversity attracting plants (Reference: http://florafaunaweb.nparks.gov.sg)</p>	<p>Fair: 2 pts Average: 4 pts Good: 6 pts Very good: 8 pts Excellent: 10 pts Max: 10 pts</p>		
Part 3 – Education and Community				
3 – 1 Education and Community				
<p>i. Interactive signage</p>	<p>To provide educational or interpretive elements (e.g., maps, models, brochures, signage, and video) that draw attention to and explain green features or processes of the site design, construction, operations, and/or maintenance.</p> <p>This provides users and visitors opportunities to observe first-hand the physical design and landscape elements that contribute to</p>	<p>Fair: 1 pt Average: 2 pts Good: 3 pts Very good: 4 pts Excellent: 5 pts Max: 5 pts</p>		

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	sustainability.			
ii. Implementation of community gardening initiatives	To provide space for community initiatives	Fair: 1 pt Average: 2 pts Good: 3 pts Very good: 4 pts Excellent: 5 pts Max: 5 pts		
Part 4 – Bonus				
i. Provision of additional buffer planting (green buffer and peripheral planting verge)	To encourage providing a wider buffer and planting verge above what is required under NParks' regulation. <i>Current requirements:</i> <i>Green buffer – 3m or 5m</i> <i>Peripheral planting verge – 2m</i> Excess buffer provided Minimum green buffer X 100% required	1 to <5%: 1 pt 5 to < 10% 2 pts 10 to <15% 3 pts 15 to <20% 4 pts ≥20% 5 pts Max: 5 pts		
ii. Stormwater management	To encourage ABC features within the development E.g.: Bio retention system	Nil: 0 pt Applied/Achieve certification: 2 pts Max: 2 pts		
iii. Innovation	To encourage the use of other green features which are innovative and have positive environmental impact. E.g.: Carbon sequestration	Low impact item 1 pt High impact item 3 pts Max.: no limit		
iv. Sensitivity to environment	To commend efforts by developers who have a social responsibility to develop sensitively around the site. E.g.: Provision of biodiversity impact study, proposed mitigating measures	Low impact item 1 pt High impact item 3 pts Max.: no limit		
GRAND TOTAL			#	

For sites where certain conditions are not applicable, points will be pro-rated accordingly.

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Annex A

1. Function: Calculate Green Plot Ratio (GnPR)

- Applicable to criterion 1-1 (i) and 1-1 (ii)
- Find out your plant species' values for (A) and (B) using <http://florafaunaweb.nparks.gov.sg>

Category	Unit	Sub category	LAI Value	Canopy Area/m ²	Qty/Planted area	LEAF Area
			(A)	(B)	(C)	(A)x(B)x(C)
Trees	no	Open Canopy	2.5	60	no	
	no	Intermediate Canopy	3.0	60	no	
	no	Dense Canopy	4.0	60	no	
	no	Intermediate columnar canopy	3.0	12	no	
Trees	m ²	Planted at ≤ 2.0m trunk to trunk		NA	m ²	
Palms	no	Solitary	2.5	20	no	
	no	Cluster	4.0	17	no	
Palms	m ²	Solitary(trunk to trunk ≤2m)	2.5	NA	m ²	
Shrubs	m ²	Monocot	3.5	NA	m ²	
	m ²	Dicot	4.5	NA	m ²	
Turf	m ²	Turf	2.0	NA	m ²	
Vertical greenery	m ²		2.0	NA	m ²	
Total Leaf Area :						

Calculation formula:

$$\text{GnPR} = \frac{\text{Total leaf area}}{\text{Total area of entire site}}$$

2. Function: Calculate the ground level landscaped area

- Applicable to 1-1 (iii)

Calculation formula:

$$\text{Ground Level Landscaped Area} = \frac{\text{Total Green Area}}{\text{Site Area}} \times 100\%$$

$$= \text{ ______ } \%$$

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- 3. Function: Calculate the percentage of native plants species used and quantity of species planted**
- Applicable to 1-2(i)

Fill in the table below and calculate the percentage using the formula below.

	List of Native Plant Species	Native	Exotic
	Tree and palms		
1.	<i>(Name of plant – add more rows/slides if required)</i>	# (Qty)	
2.			# (Qty)
3.			
4.			
	Shrub and ground covers		
5.			
6.			
	Subtotal (Quantity) :		
	Percentage (Quantity):		

Quantity refers to the number of plants planted for each selected specie.

Formula for types of species

$$\begin{aligned} \text{Percentage of Native Species used} &= \frac{\text{No. of selected native species}}{\text{Total number of species selected}} \times 100 \\ &= \text{ ______ } \% \end{aligned}$$

Formula for quantity of species

$$\begin{aligned} \text{Percentage of Native Species used} &= \frac{\text{No. of selected native species}}{\text{Total number of species selected}} \times 100 \\ &= \text{ ______ } \% \end{aligned}$$

- 4. Function: Calculate percentage of trees retained on site**
- Applicable to 2-1(i)

Calculation formula:

$$\begin{aligned} \text{Percentage} &= \frac{\text{\# of trees retained}}{\text{Total \# of trees on site}} \times 100\% \\ &= \text{ ______ } \% \end{aligned}$$

End