

Master Specification

Part PR-LS-S1

Supply of Plant Material

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PR-LS-S1 Supply of Plant Material

1 General

- a) This Master Specification Part specifies the requirements for the supply of plant material, including:
 - i) the documentation requirements, as set out in section 2;
 - ii) the local province requirements, as set out in section 3;
 - iii) the permits requirements, as set out in section 4;
 - iv) the requirements for the supply of plant material by the Principal, as set out in section 5;
 - v) the requirements for the supply of plant material by the Contractor, as set out in section 6; and
 - vi) the Hold Point requirements, as set out in section 7.
- b) The supply of plant material must comply with the Reference Documents, including AS 2303 Tree stock for landscape use.
- c) For the purpose of this Master Specification Part, “plant material” includes any part of a plant used for direct seeding, hydroseeding and plant propagation, tubestock, general nursery stock, aquatic plants, advanced trees, and associated materials such as growing media.
- d) The loading, transportation, caring for, and handling of plant material must be carried out in accordance with the best horticultural practices, in a manner not likely to cause damage or stress to the plant material.

2 Documentation

2.1 Construction Documentation

In addition to the requirements of PC-CN3 “Construction Management”, the Construction Documentation must include evidence of the permits and Approvals required by section 4.

2.2 Quality Management Records

In addition to the requirements of PC-QA1 “Quality Management Requirements” or PC-QA2 “Quality Management Requirements for Major Projects” (as applicable), the Quality Management Records must include:

- a) verification of all plant materials from the supplier, in accordance with section 3a); and
- b) evidence that the nursery supplying plant material is certified free of disease or pathogens, as required by section 6.1b).

3 Local provenance

- a) Unless specified otherwise in the Design Documentation, and subject to section 3b), plant materials must be obtained from local sources, with a general limit of 20 km radius around the Site. The Contractor must supply written verification of the provenance of all plant materials from the supplier, including map or GPS coordinates for each species on the seed / plant schedule, as part of the Quality Management Records.
- b) Plant materials of other sources may only be used if the Contractor can demonstrate that local provenance material is not available, in which case it must be from the nearest source practicable. The use of non-local provenance material will be subject to prior approval from

the Principal on a species by species basis and the Design Departure process must be followed in accordance with PC-EDM1 “Design Management”.

4 Permits

- a) Evidence of the permits and Approvals required by this section 4 must be submitted as a part of the Construction Documentation.
- b) The collection of native plant materials (seed, fruit, rhizome, cutting material, tuber, and bulb) is controlled under section 49 of the *National Parks and Wildlife Act 1972* (SA), and the propagule collector engaged by the Contractor must obtain a valid permit for collection.
- c) A permit from the Minister for Sustainability, Environment and Conservation is required to collect native plant materials from forest reserves, national parks and wildlife reserves, crown land and any other land reserved for, or dedicated to public purposes, such as roadsides and local council reserves.
- d) Written approval from the management authority responsible for the land must also be obtained prior to collection of native plant materials.
- e) Other conditions may be imposed which limit the amount of native plant materials to be collected, the area within which native plant materials can be collected, or the species from which native plant materials may be collected.

5 Supply of plant material by the Principal

- a) This section 5 only applies if the Principal is to supply all or part of the plant material.
- b) Where plant material is to be supplied by the Principal, prior to taking delivery of the plant material, the Contractor must inspect the stock in conjunction with the Principal at the nursery to mutually agree to the acceptability of the stock and must issue the Principal with a receipt for the acceptable plants. 5 days’ notice must be provided prior to undertaking inspection.
- c) The joint inspection of plants between the Principal and the Contractor at the nursery, required in section 5b), will constitute a **Hold Point**. Collection of the relevant plants must not commence until release of this Hold Point.
- d) The Contractor is responsible for:
 - i) giving the Principal and nursery 3 days’ notice prior to collecting the plants;
 - ii) liaison with the nursery to coordinate collection of the plants to satisfy the program of works; and
 - iii) collection and delivery of plants to the Site.

6 Supply of plant material by the Contractor

6.1 General

- a) The Contractor is required to supply all plant material, unless the Contract Documents state that the Principal will supply all or part of the plant material, in which case the requirements of section 5 are to apply.
- b) Any nursery(s) producing the plant material must be certified free of disease or pathogens (in particular *Phytophthora cinnamomi*), with evidence provided as part of the Quality Management Records.
- c) The Contractor must provide 5 days’ notice to the Principal prior to taking delivery of plant material.
- d) Where plants are to be picked up or delivered from a nursery, the Contractor must allow for a joint inspection to take place at the nursery prior to each collection or delivery event.

- e) All plants undergoing a joint inspection under section 6.1d) must be batched in their total quantities per species together in the one location in the nursery and appropriately labelled with the project name ready for collection.
- f) The joint inspection of plants between the Principal and the Contractor at the nursery, required in section 6.1d), will constitute a **Hold Point**. Collection of the relevant plants must not commence until release of this Hold Point.
- g) Tubestock and nursery stock plant material must:
 - i) conform to the following:
 - A. form and habit must be “true to type” of the species; and
 - B. the root system must be sufficiently developed to support growth and must extend throughout the container but must not be “root bound”;
 - ii) be free from pests and diseases and must not show evidence of having been affected by pest and disease infestations;
 - iii) not be forced grown;
 - iv) be fully “hardened off” for 4 weeks prior to collection or delivery; and
 - v) be alive.
- h) Advanced trees must be in accordance with AS 2303 Tree stock for landscape use.
- i) The correct orientation (i.e. northerly aspect) of advanced trees must be identified in the nursery by a permanent peg embedded in the root ball 150 mm north of the centre of the stem or a red dot marked on the stem of the tree.
- j) Growing media must:
 - i) be sterilised and free from pests, diseases, and weeds;
 - ii) be capable of holding water and nutrients available for the plant;
 - iii) contain sufficient balanced nutrients to maintain healthy growth;
 - iv) be capable of providing physical support for the root system of the developing plant; and
 - v) when combined with the root system, form a cohesive unit so as to remain intact when removed from the container.

6.2 Tubestock and general nursery stock containers and plant size

- a) Refer to the Design Documentation for plant containers and plant size.
- b) Plant containers and plant sizes (measured from the soil surface to the tip of the main leader) must comply with the requirements set out in Table PR-LS-S1 6-1.

Table PR-LS-S1 6-1 Tubestock and general nursery stock containers and plant size

Container type	Container size (mm)	Plant height range (mm)
Tubestock	150 height x 50 width x 50 length	100 - 200 (unless a prostrate plant)
General nursery stock	150 mm - 20 l	200 - 1500 (unless a prostrate plant)

6.3 Batching and labelling

Plant material must be labelled by botanical nomenclature and assembled into batches for ease of inspection. Where a batch consists of only one species, one identification label must be provided for the batch. If different species are packed within a batch, then individual plant species must be labelled.

6.4 Maintenance of plants following collection or delivery from the nursery and prior to planting

Plant material must not be stored in transportation vehicles following collection or delivery from the nursery. Plants stored in holding bays or temporary nurseries following collection or delivery must remain free from moisture stress, and free from pests and diseases.

7 Hold Points

Table PR-LS-S1 7-1 details the review period or notification period, and type (documentation or construction quality) for each Hold Point referred to in this Master Specification Part.

Table PR-LS-S1 7-1 Hold Points

Section reference	Hold Point	Documentation or construction quality	Review period or notification period
5c)	Joint inspection of plants at the nursery when plants are supplied by the Principal	Construction quality	5 days notification
6.1f)	Joint inspection of plants at the nursery when plants are supplied by the Contractor	Construction quality	5 days notification