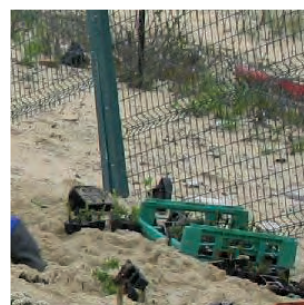
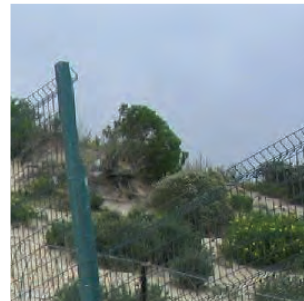


CITY OF CAPE TOWN ENVIRONMENTAL MANAGEMENT PROGRAMME

SPECIFICATION: ENVIRONMENTAL MANAGEMENT

STANDARD REVEGETATION SPECIFICATION

Revision 2007



CITY OF CAPE TOWN | ISIXEKO SASEKAPA | STAD KAAPSTAD

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STANDARD SPECIFICATION: REVEGETATION (Revision 2007)

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1. SCOPE

This Specification covers the requirements for the planting and establishment of vegetation.

2. INTERPRETATIONS**2.1 Supporting specifications**

Where this Specification is required for a project the following specifications shall, inter alia, form part of the Contract Document.

- (a) Project Specification;
- (b) SABS 1200 A or SABS 1200 AA, as applicable.
- (c) SABS 1200D and/ or SABS 1200DM, as applicable
- (c) Specification EM

2.2 Application

This Specification contains clauses that are generally applicable for the planting and establishment of vegetation on slopes, fills, cuts, borrow pits, road reserves or any other specified area. Interpretations and variations of this Specification are set out in Portion 2 of the Project Specification (see 2.1)

In the event of any difference or discrepancy between the provisions of the Standardized Specifications and the provisions of this Specification, the latter shall prevail.

2.3 Definitions

For the purpose of this Specification the definitions and abbreviations given in the applicable specifications listed in 2.1 and the following definitions shall apply: *{refer to detailed revegetation specifications for further definitions}*.

Topsoil – means the top 300 mm of soil and may include top material *e.g.* vegetation and rocks.

3. MATERIALS

3.1 Mulch

Mulch material shall not contain viable seed of declared weeds and shall be as detailed in the Project Specification.

Mulch material which contains viable seed either of species, which through their invasive or other deleterious qualities are ecologically undesirable or threaten adjacent agricultural land will not be acceptable.

Mulch material which is fresh; or excessively brittle; or, which is in such an advanced stage of decomposition as to smother or retard growth, will not be acceptable.

3.2 Fertiliser

Fertiliser shall be as detailed in the Project Specification.

The fertiliser shall be uniform in composition, free-flowing and suitable for application with approved equipment. It shall be delivered to the site in bags or other convenient containers, each of which shall be fully labelled and bear a clear indication of the contents, the trade name or trade mark, the producer's name and a warranty about the contents by the producer.

The Contractor shall provide the Engineer/ EO /ECO with copies of invoices for all fertilisers used on the project. Invoices for fertilisers shall show the grade furnished.

3.3 Manure

Manure shall be pure kraal manure free from soil, noxious weed seed or other undesirable material. It shall not contain any particles that will not pass through a 50 mm sieve and shall be approved by the Engineer/ EO /ECO before being delivered to the site.

3.4 Topsoil and subsoil

Topsoil that is imported shall be fertile, friable and loamy in character with 10-50% organic matter. *{Alternatively, where this would be contrary to the properties of topsoil in the habitat being rehabilitated, provide a different specification to suit the locality}*. It shall be free from refuse, roots, clay lumps, stones larger than 50 mm in size, weeds, noxious seed, propagules

or other biotic materials (including flora and fauna), pathogens and any toxic or germination inhibiting substance.

A representative sample of the material which the Contractor intends using shall be submitted to the Engineer/ EO /ECO at least one week before any of the material is delivered to the site.

Topsoil shall not be compacted in any way, especially by vehicles riding over it. Where it is essential to drive a vehicle over the topsoil (once it has been redistributed), as approved by the Engineer/ EO /ECO, the contact pressure shall not be greater than 1500 kg/m².

3.5 Storage capacity for plant material

The storage capacity provided and amount of material stored (of whatever sort required for the completion of the works) shall be sufficient to ensure that no interruption to the progress of the work is occasioned by lack of materials.

4. PLANT

4.1 General

Before the work is commenced, the equipment necessary for the proper handling and placing of all required materials shall be on hand, in good condition and to a standard approved by the Engineer/ EO /ECO.

5. CONSTRUCTION

5.1 Preparation of ground surfaces

Prior to vegetation/ rehabilitation of the site, the Contractor shall remove all remnants of building materials, concrete foundations, timber and other foreign debris from the site.

Before replacing topsoil, the Contractor shall remove all visible weeds from the placement area and from the topsoil.

5.2 Fertilisation

Fertiliser shall be added to the soil on seeding or planting. The rate of application shall be as directed by the Engineer/ EO /ECO after he/ she has had the opportunity of testing the requirements of the soil material in which the vegetation is to be planted. The Contractor shall allow a period of two weeks between advising the Engineer/ EO /ECO of the intended soil material and receipt of the spread rate details. A third of the fertiliser shall be incorporated uniformly into the subsoil or topsoil to a depth of at least 100 mm. The remaining two thirds of the fertiliser shall be applied at the specified rate in conjunction with the seeding or planting operations, either as part of the hydro-seeded mix or by hand.

Where vegetation is required on a slope on which prior mechanical stabilisation procedures are required, specific requirements for fertilisation shall be as detailed in the Project Specification.

5.3 Timing of planting

The Contractor shall not begin planting work until all construction activities in the area to be vegetated have been completed.

5.4 Traffic on vegetated areas

No construction equipment, vehicles or unauthorised personnel shall be allowed onto areas that have been vegetated. Only persons or equipment required for the preparation of areas, application of fertiliser and spreading of topsoil shall be allowed to operate on these areas.

5.5 Establishment

Establishment shall consist of maintaining the surface to the required slopes and levels without erosion or sedimentation, watering, weeding, fertilising, disease and insect pest control, pruning, and any other procedure consistent with good horticultural practice necessary to ensure normal, vigorous and healthy growth of the plant material on site, together with such other operations as are detailed in the Project Specification.

Establishment shall commence immediately after planting and shall continue until a satisfactory cover, as detailed in the Project Specification, has been achieved and the Certificate of Completion has been issued.

The Constructors shall ensure that irrigation, fertilisation and any other specified activities do not impact unreasonably upon adjacent natural areas.

6. TOLERANCES

Void

7. TESTING

7.1 Responsibility for establishing an acceptable cover

All planted areas shall have an acceptable cover, as detailed in the Project Specifications, in stages from the beginning to the end of the establishment period.

Notwithstanding the fact that the method of planting, the type of seed, grass or plant used, the rate of application of seed or planting density and that the frequency of mowing are specified the Contractor shall be solely responsible for establishing and maintaining an acceptable plant cover and for the cost of replanting and/ or re-hydroseeding where acceptable cover is not obtained or maintained.

8 MEASUREMENTS AND PAYMENT

8.1 Basic principles

Except as noted below as Scheduled Items, no measurement and payment will be made to cover the costs of complying with the provisions of this clause and such costs shall be covered by the rates tendered for the items in the Scheduled of Quantities completed by the Contractor when submitting his/ her tender.

8.2 Scheduled items

8.2.1 Work "required by the Project Specification"

Where a clause in this Specification includes a requirement as "detailed in the Project Specification", measurement and payment for compliance with that requirement shall be in accordance with the relevant measurement and payment clause of the Project Specification.