

Specification for Invasive Alien Plants Eradication Project at the Port of Durban for a period of 36 Months

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Introduction

Transnet National Ports Authority (TNPA), as the landowner of the Port of Durban, is currently facing a serious environmental threat due to the widespread of invasive alien plant species such as Brazilian Pepper, Yellow Bell, Castor Oil, Lantana, and Chromolaena. These species negatively impact indigenous vegetation, reduce biodiversity, and compromise the ecological integrity of the port environment, with potential long-term effects on infrastructure and operational efficiency.

TNPA is legally bound by environmental legislation to manage and control invasive species within its jurisdiction. In particular, the Conservation of Agricultural Resources Act (Act No. 43 of 1983) requires landowners to prevent the spread of declared alien vegetation. Additionally, the Alien and Invasive Species Regulations, 2020, issued under Section 97(1) of the National Environmental Management: Biodiversity Act (NEMBA), 2004 (Act No. 10 of 2004), place a direct legal obligation on all landowners and persons in control of land to identify, control, and eradicate invasive species listed under Categories 1a, 1b, 2, and 3. These regulations mandate that reasonable and practical measures must be implemented to prevent the introduction, establishment, and spread of such species including the control of seedlings, reproductive parts, and escape pathways. TNPA is therefore committed to implementing a structured and compliant eradication program to meet these requirements and protect the port's natural environment.

Transnet National Ports Authority, Port of Durban, invites proposals from suitably qualified service providers to undertake the control, removal, and rehabilitation of areas infested by alien invasive plants. The alien invasive species present within the Port of Durban are listed in Table 1.

Table 1: Showing the alien invasive plants found in Port of Durban.

Alien Invasive Plant	Scientific Name	Category	Density
Syringa	<i>Melia azedarach</i>	1b	Low
Bugweed	<i>Solanum mauritianum</i>	1b	Low
Brazilian Pepper	<i>Schinus terebinthifolius</i>	1b	Medium
Balloon Vine	<i>Cardiospermum grandiflorum</i>	1b	Low
Giant Reed	<i>Arundo donax</i>	1b	Low
Leucaena	<i>Leucaena leucocephala</i>	2	Low
Ageratum	<i>Ageratum conyzoides</i>	1b	Low

Indian Laurel	<i>Litsea glutinosa</i>	1b	Low
Peanut-Butter Cassia	<i>Senna didymobotrya</i>	1b	Low
Parthenium Weed	<i>Parthenium hysterophorus</i>	3	Low
Mauritius Thorn	<i>Caesalpinia decapetala</i>	1b	--
Yellow Bell	<i>Tecoma stans</i>	1b	Medium
Morning Glory	<i>Ipomoea indica</i> / <i>Ipomoea purpurea</i>	1b	Low
Prickly Pear	<i>Opuntia species</i> (e.g., <i>O. ficus-indica</i>)	1b	--
Mexican Poppy	<i>Argemone mexicana</i> / <i>Argemone ochroleuca</i>	1b	--
Umbrella Tree	<i>Schefflera actinophylla</i>	1b	--
Syzygium cumini – Jambolan	<i>Syzygium cumini</i>	3	--
Castor Oil	<i>Ricinus communis</i>	2	Medium
Lantana	<i>Lantana camara</i>	1b	Medium
Chromolaena	<i>Chromolaena odorata</i>	1b	Medium

The objectives of the invasive alien plants eradication program are:

- Identify and map invasive plant species within the Port of Durban and develop a detailed clearing plan.
- Remove invasive plants from the designated areas and conduct ongoing monitoring of regrowth in accordance with schedules agreed upon between TNPA and the service provider.
- Replace alien plants with indigenous plants to rehabilitate the area.
- Ensure the clearing plan integrates with port development initiatives and considers current and planned construction activities.
- Apply clearing methods that comply with all relevant legislation, including the norms and standards of the Working for Water program and the National Environmental Management: Biodiversity Act and its Alien Invasive Species regulations.
- Provide regular progress reports, including mapped areas of cleared invasive plants in both hard copy and digital formats, with shapefiles detailing cleared zones and the species composition of invasive plants removed, submitted within agreed timeframes.

Scope of Work

The service provider will be required to carry out the following:

- To eradicate alien invasive plant species in identified areas of the Port of Durban and rehabilitate the affected areas to restore the natural ecosystem.
- The service provider will have to conduct monthly invasive alien plants eradication sessions (Full eradication and removal, to ensure no regrowth).
- Upon completion of each phase, the service provider will be required to prepare a consolidated report that will be detailing the work done. Information that will have to be included in the report includes:
 - The section worked and time spent on the site.
 - The methodology (mechanical, chemical, biological taking into consideration relevant legal provisions) used to clear/ control the alien invasive species.
 - Aerial plan/maps to denote spatial spread of alien vegetation in the Port of Durban.
 - Develop an invasive plant species inventory including common and scientific names, invasive status, and distribution.
- To rehabilitate the area after the removal of the alien invasive plants the service provider must replant indigenous tree species, preferably local to the Durban region (e.g. *Vachellia xanthophloea*, *Trichilia emetica*., and *Syzygium guineense*).

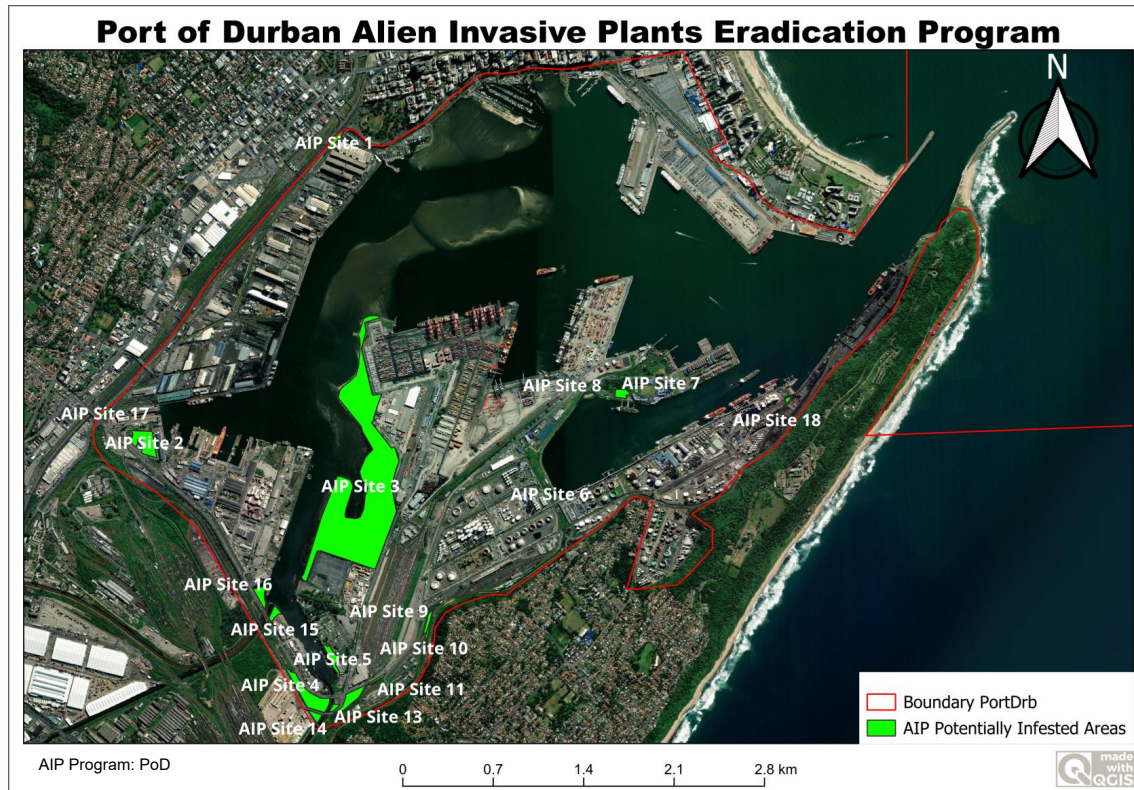


Figure 1: Aerial photographs of the project area. The project area covers an area of approximately 110.53 hectares.

Information to be obtained on site

All tenderers must attend the compulsory site inspection to familiarise themselves with the nature of the work, the conditions under which the work is to be done, the means of access to the site, any limitations or restrictions that may be imposed by Transnet National Ports Authority, local or other authorities.

Safety Requirements

- The service provider must comply with all the relevant sections and regulations of the Occupational Health and Safety Act, Act No. 85 of 1993 during the contract period.

- The service provider is required to adhere to all TNPA safety rules and procedures.
To ensure compliance, all personnel involved in the project must attend a TNPA safety induction at least two weeks prior to the commencement of any work.
- The service provider will be required to compile and submit a project specific SHE File, which will be approved by TNPA, Port of Durban.

Waste Management

- The service provider is responsible for the safe collection, transport, and disposal of all waste generated during the project.
- Waste may include, but is not limited to, alien vegetation, used chemical containers, and general debris resulting from clearing activities
- All waste must be managed according to the National Environmental Management: Waste Act and municipal by-laws.
- Waste must be disposed of at licensed facilities only.
- All plant material must be disposed of following appropriate protocols to avoid re-seeding and further spread of invasive species.
- If using a TNPA-licensed waste contractor, the service provider must submit a signed agreement with the contractor.
- Safe disposal certificates and waste manifests must be provided to TNPA for all disposal activities.

Time of Delivery

The successful service provider must produce the final deliverables within a timeframe agreed upon with TNPA from the appointment date.

General

- The service provider shall not restrict the free use of any road, right-of-way, or path on Transnet National Ports Authority property unless he has obtained the approval of the authority / owner concerned.
- No permanent works or structures of any nature will be erected on TNPA's property.
- No material shall be provided by Transnet National Ports Authority.

- Site Access:
 - Entrance Security Permits: The Contractor shall take out temporary entry permits for all staff working within the harbour. All costs incurred shall be borne by the Contractor or his staff and shall be included in the tendered rates.
 - The contractor must comply with all TNPA, Port of Durban Security requirements while working in the Port.

Schedule of Quantities

Schedule of Quantities for Invasive Alien Plants Eradication Project at the Port of Durban for a period of 36 Months					
Item	Deliverable	Unit	Quantity	Rate	Total Cost for 36 months
1	Alien Vegetation Removal SHE File				
	The SHE File must be kept up to date for the duration of the project	SUM	1	R	R
2	Alien Vegetation Survey				
	Baseline Alien Vegetation Survey Report with Aerial Plan/s	Once-off	1	R	R
	Invasive Species control plan	Once-off	1	R	R
3	Alien Vegetation Removal				
	Alien Vegetation Removal / Clearance	Hectares	110.53	R	R
4	Waste Disposal Services				
	Disposal of alien vegetation / soil with alien vegetation seeds, etc. And legally Compliant Safe Disposal certificates & Waste Manifests	Per Month	36	R	R
5	Alien Vegetation Removal Project Reports				
	Alien Vegetation removal / Clearance Report	Per Month	36	R	R
	Yearly Consolidated Alien Vegetation Management Report	Per Year	3	R	R
6	Planting of Indigenous Plants				
	150 Indigenous trees' to be planted each year for the duration of the contract	Per Tree	450	R	R
Sub Total (Excluding VAT)				R	R
VAT @ 15%				R	R
Total (Including VAT)				R	R

Total Amount in Words (Excl. VAT)

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WITNESSES:

1. Contractor:

2. Date:

WITNESSES:

1. TNPA:

2. Date:

Port of Durban Alien Invasive Plants Eradication Program

