

**TRANSNET PORT TERMINALS****TENDER NUMBER:**

**PROVISION OF EQUIPMENT HIRE SERVICES- DUST SUPPRESSION WATER CANNON SPRAY TRUCKS FOR TPT RCB FOR A PERIOD OF 2 MONTHS (REG. NO 1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS (HEREINAFTER REFERRED TO AS "TPT")**

**SCOPE OF WORK**

**PROVISION OF EQUIPMENT HIRE SERVICES- DUST SUPPRESSION WATER CANNON SPRAY TRUCKS FOR TPT RCB FOR A PERIOD OF 2 MONTHS.**



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**Table 1: List of Abbreviations**

Abbreviation	Meaning given to the abbreviation
AIA	Authorised Inspection Authority
BBBEE	Broad Based Black Economic Empowerment
QA	Quality Assurance
SES	Standard Environmental Specification
SHE	Safety, Health and Environment
SHEC	Safety, Health and Environment Co-ordinator
SIP	Site Induction Programme
SMP	Safety Management Plan
SSRC	Site Safety Review Committee
TPT	Transnet Port Terminal
KZN	Kwa-Zulu Natal
ECSA	Engineering Council of South Africa
RCB	Richards Bay
PPE	Personal Protective Equipment
OEM	Original Equipment Manufacturer
COF	Certificates of Fitness



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## 1 Tender Authorization Signatures

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## 2 Overview of the work

### 2.1 Executive Overview

Transnet Port Terminals is a division of Transnet SOC Limited whose core business is to provide cargo handling to a wide spectrum of customers, including shipping lines, freight forwarders and cargo owners. Operations are divided into five major business segments, namely containers, bulk, break bulk, automotive and national port authority (TNPA).

Operations under DBT and MPT under Richards Bay Port Terminal involve use of conveyor belts systems for export, import and various fleet equipment for internal movement and shipping of cargo. These processes also generate accumulative cargo spillages when one or more systems parameters malfunction or overloaded. Another element directly contributing to road related spillages is fleet equipment. The current influx of road trucks material handling operation has increased the risk of road transport operation, health, and environment because of cargo spillages.

It is therefore of utmost importance to mitigate any form of risk to health, environment and operation by efficient means and right practices within the governing regulations of cargo spillage waste management acts and guiding policies.

The purpose of this contract is to engage a service provider to supply and operate a dust suppression water cannon spray trucks for TPT RCB for a period of 2 months within the port facility. This service will help to mitigate dust pollution and maintain environmental compliance standards.

### 2.2 Main Work Information

2.2.1 Provision of dust suppression water cannon spray trucks for TPT RCB for a period of 2 months.

### 2.3 Deliverables

2.3.1 Adherence to TPT and TNPA policies and procedures.

2.3.2 Always use of appropriate and applicable PPE.

2.3.3 100% percent staff compliment with accordance to the shift pattern from 06H00 - 18H00 and 18H00 to 06h00 for 7 days a week 24 hours for a period of 2 months.

2.3.4 Availability of all equipment as per the scope of work requirement.

2.3.5 Arrival at work on time **05H30** for the 06h00-18h00 shift and **17h30** for the 18h00-06h00 shift.

2.3.6 Conduct risk assessment prior commencement with any work as to identify associated risks

2.3.7 Daily submission of attendance timesheets

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### 3 Detailed Scope of Work

#### 3.1 Detailed Scope of Work

- 2.2.2 The service provider is required to provide dust suppression water cannon spray trucks for TPT RCB for a period of 2 months with qualified operators.
- 3.1.1 A successful service provider shall ensure that their operators are licensed and or qualified operators for specific equipment as deemed mandatory requirement by the law of South Africa and regulating bodies.
- 3.1.2 Transnet reserves the right to validate the documentation provided as proof of licensing or certificate of competence for operators.
- 3.1.3 The service provider shall conduct maintenance of their equipment in such a way that it does not interfere with business demand as per contractual obligation.
- 3.1.4 The service provider is required to bring equipment on site for the duration of this contract (2 months).
- 3.1.5 In case of breakdown, service provider is expected to provide on-site technical back-up or provide a replacement equipment.
- 3.1.6 The work will take place as follows: - shift pattern from 06H00 - 18H00 and 18H00 to 06h00 for 7 days a week 24 hours for a period of 2 months.
- 3.1.7 TPT will provide fuel for the equipment.
- 3.1.8 TPT will ensure the provision of supervisors to oversee the operation of the equipment.
- 3.1.9 Applicable Equipment requirement and resources breakdown is as per the Table 2 below:
- 3.1.10 TPT will provide chemicals for dust suppression water cannon spray trucks.

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Specifications	Unit
Spray size	100m
Rate of flow	7-11, be durable industrial pump
Liquid pump pressure	0.5 – 2.5 must have an advanced number of stainless-steel pumps
Fog drop particles	50-300
Horizontal range	>100
The pitch angle	-10 degrees to 45 degrees
Horizontal rotation angle	320degrees (round trip adjustable)
Aggregate capacity (KW)	>75kw total power adjustment
Protection system	Limit plus overload protection

Table 2: Equipment and Operators Requirement Specifications

Item	Equipment	Package	Equipment Quantity	Hours Allocated Per Day	Total Allocated Hours per month
1	DUST SUPPRESSION WATER CANNON SPRAY TRUCKS	4 Operators per shift	2	24	732
2	<b>Total</b>		<b>2 Equipment</b>		

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**3.2 Service Requirement Allocation**

3.2.1 Service provider shall work as per work allocation plan from the Operations Supervisor.

3.2.2 The service provider shall adhere to the Terminals shift pattern of 06h00-1800-day shift and 18h00-0600-night shift.

3.2.3 The service provider shall adhere to on time arrival of the operators which is 05h30 for the morning shift and 17h30 for the night shift.

**4 Project General Activities**

**4.1 Dust suppression Truck where Applicable**

4.1.1 The dust suppression water cannon spray trucks should spray stockpiles at regular intervals throughout the day, with increased frequency during windy conditions or when high dust levels are detected.

4.1.2 Service provider must note that equipment shall be used in all sections based on demand, covering 7 series, 6 Series, PRT-Storage and Neo bulk.

4.1.3 dust suppression water cannon spray trucks must have a minimum tank of 8 000 Liters.

4.1.4 The high-pressure water spray system must be capable of covering large areas efficiently with minimum height/distance reach of 100 meters.

4.1.5 Service provider must ensure that the nozzle is adjustable for optimal coverage on varying stockpile sizes.

4.1.6 Service provider must ensure that they never work under unguarded running conveyor belt.

4.1.7 The truck should be in a good condition, meeting all safety and operational standards required by port authorities.

4.1.8 Service provider supervisors shall inspect and regulate how employees work under these risky areas to avoid escalation of hazards which may lead to severe injuries and or fatality.

4.1.9 Service provider shall conduct their own risk assessment on daily basis to ensure that their resources are aware of possible risks and always wearing proper PPE.

**4.2 Specific Roads infrastructure where applicable**

- Successful bidders shall be allocated stockpiles, roadways surrounding stockpiles, and any other identified areas within the port prone to dust emission.

**4.2.1 Total Resources Requirement**

- Resources shall be distributed as and when required to areas of demand.
- Service provider supervisor must always plan resource utilization to optimize their service delivery in response to required service of daily basis.

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- The service provider may experience a high demand at the start of the contract.

4.2.2 Service provider is required to carry out cleaning of cargo as per operational directives from the presiding operations manager or delegated personnel.

Stockpiles to be covered among others may be any of the below:

- a) Chrome area- A,B,C and D
- b) Old MHA
- c) Magnetite
- d) Sulphur
- e) Alumina
- f) Chloride, Rutile & Zircon
- g) Woodchips
- h) Coking coal and many others.

4.2.3 Operational areas:

- a) 6 Series
- b) 7 Series
- c) Neobulk
- d) PRT- Storage

## 5 Critical Requirements

### 5.1 General service deliverables

5.1.1 Acquire schedule of planned cleaning from Transnet supervisor and action accordingly

## 6 Services Conditions

### 6.1 Waste Disposal

6.1.1 Transnet shall guide the service provider where to dispose the waste cargo.

## 7 Pricing Schedule

### 7.1 Pricing Conditions

7.1.1 See Pricing Data Schedule A document for Pricing Conditions.

### 7.2 Pricing Schedule

7.2.1 See Pricing Data Schedule A document for pricing schedule.

## 8 Health, Safety and Environment

### 8.1 Safety Requirements

8.1.1 Contractor to comply with Health and Safety Acts and its regulations.

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8.1.2 Refer to Occupational Health & Safety Act 85 of 1993 ("OHSA") for guidance.

8.1.3 Service provider must have a safety file submitted to the safety department for assessment.

8.1.4 All employees must be medically fit with report confirming that they may commence work in Transnet premises.

8.1.5 Supplier to adhere to all environmental rules and regulations as explained in detail under management and start up topic

8.1.6 All personnel always involved to have all relevant PPE requirement

8.1.7 SABS 0400 building Regulations

8.1.8 SABS 049/1989

8.1.9 Hazardous Substances Regulations

8.1.10 ISO 14001:2004

8.1.11 ISO 9001:2008

8.1.12 MSDS

8.1.13 COVID 19 Regulations

**8.2 Compliance**

Bidders shall comply with all legislation, but not limited to the following:

8.2.1 Occupational Health & Safety Act 85 of 1993 ("OHSA").

8.2.2 International Health Regulation Act 28 of 1974.

8.2.3 Hazardous Substances Act 15 of 1973.

8.2.4 The Compensation for Occupational Injuries and Disease Act, 1993 (Act No.130 of 1993) ("COIDA").

8.2.5 All material aspects of all applicable legislation, provincial ordinances, and local authority by-laws, including all relevant regulations promulgated in terms thereof, which affects the maritime business.

8.2.6 The basic conditions of Employment Act No.75 of 1997.

8.2.7 Criminal Procedure Act No.51 of 1977

8.2.8 National Ports Act No.12 of 2005 and enabling legislation thereto, including the Port Rules.

8.2.9 Control of Access to Public Premises and Vehicle Act, No 53 of 1985.

8.2.10 Legal Succession to the South African Transport Services Act No.9 of 1989 (but excluding any tariff provided for in such regulations).

8.2.11 Any other Transportation laws or directives that govern TPT's Transportation and Handling Services.

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8.2.12 Merchant Shipping Act no.57 of 1951, the Maritime Security Regulations 2004 read in conjunction with the International Ship and Port Facility Security Code and Maritime Occupational Safety Regulations (1994), as amended.

8.2.13 Codes of Good practice embodied in the Broad Based Black Economic Empowerment Act No.53 of 2003:

8.2.14 Customs and Excise Act No.91 of 1964:

8.2.15 National Road Traffic Act and Regulations Act 93 of 1996 (as amended from time to time).

8.2.16 The National Railway Safety Regulator Act No.16 of 2002,

8.2.17 The Labour Relations Act No.66 of 1995 and the Regulations thereto.

## 9 Site Information

### 9.1 Site conditions

The works are undertaken next to a highly dusty area and care should be taken to safeguard against this. Surgical masks and safety goggles may be required when walking outside the building.

The groundwater table has been recorded at between 0.8 m and 1.5 m below ground level across the site during winter. The equipment to be rigged is to be for 24 hours per day operation in an environment subject to the following conditions:

- Altitude – sea level
- Ambient temperature – 5 to 45 °C
- Relative humidity – frequently 100%
- Air Pollution – heavily saline and dust laden; industrial and locomotive fumes; ignitable dusts
- General wind velocities – up to 60km/ h
- Storm wind velocities – up to 180 km /

Climate data for Richards Bay based on monthly averages for the 30-year period: 1961- 1990 (SAW, 2005) 2

### 9.2 Site access

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The site is at the Bulk Terminal in the Port of Richards Bay.

Access to the site will be from the existing public and maintenance road networks whilst access to the Port of Richards Bay will be through the East or West Access Gates.

Access to the Port of Richards Bay will be subject to the TPT security requirements and regulations.

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