

Transnet Property

Tender Number:

Description of the Works: Decommissioning, supply, install, testing and commissioning of sewer pit pumps and stormwater pumps at Carlton Centre

PART 2: PRICING DATA

Document reference	Title	No of pages
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C2.1 Pricing Instructions: Option A

1. The *conditions of contract*

1.1. How the contract prices work and assess it for progress payments

Clause 11 in NEC3 Engineering and Construction Contract, June 2005, (with amendments June 2006 and April 2013) (ECC) Option A states:

Identified and defined terms 11
11.2

(20) The Activity Schedule is the *activity schedule* unless later changed in accordance with this contract.

(22) Defined Cost is the cost of the components in the Shorter Schedule of Cost Components whether work is subcontracted or not excluding the cost of preparing quotations for compensation events.

(27) The Price for Work Done to Date is the total of the Prices for

- each group of completed activities and
- each completed activity which is not in a group

A completed activity is one which is without Defects which would either delay or be covered by immediately following work.

(30) The Prices are the lump sums for each of the activities on the Activity Schedule unless later changed in accordance with this contract.

1.2. Measurement and Payment

1.2.1 The Activity Schedule provides the basis of all valuations of the Price for Work Done to Date, payments in multiple currencies, price adjustments for inflation and general progress monitoring.

1.2.2 The amount due at each assessment date is based on **completed activities and/or milestones** as indicated on the Activity Schedule.

1.2.3 The Activity Schedule work breakdown structure provided by the *Contractor* is based on the Activity Schedule provided by the *Employer*. The activities listed by the *Employer* are the minimum activities acceptable and identify the specific activities which are required to achieve Completion. The activity schedule work breakdown structure is compiled to the satisfaction of the *Project Manager* with any additions and/or amendments deemed necessary.

1.2.4 The *Contractor's* detailed Activity Schedule summates back to the Activity Schedule provided by the *Employer* and is in sufficient detail to monitor completion of activities related to the Accepted Programme in order that payment of completed activities may be assessed.

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- 1.2.5 The short descriptions in the Activity Schedule are for identification purposes only. All work described in the Works Information is deemed included in the activities.
- 1.2.6 The Activity Schedule is integrated with the Prices, Accepted Programme and where required the forecast rate of payment schedule.
- 1.2.7 Activities in multiple currencies are separately identified on both the Activity Schedule and the Accepted Programme for each currency.
- 1.2.8 The tendered total of the prices as stated in the Contract Data is obtained from the Activity Schedule summary. The tendered total of the prices includes for all direct and indirect costs, overheads, profits, risks, liabilities and obligations relative to the Contract.

C2.2 Activity Schedule

The Tenderer details his Activity Schedule below or makes reference to his Activity Schedule and attaches it to this schedule.

The details given below serve as guidelines only and the Tenderer may split or combine the activities to suit his particular methods.

Item no.	DESCRIPTION:	Unit	Quantity	Rate	Price
SUPPLY AND REPLACEMENT OF SEWER AND STORMWATER PUMPS AT CARLTON CENTRE					
1.	Health and Safety: Adherence to the Construction Regulations of the OHSA (Act No 85 of 1993), and COVID-19 regulations. Safety includes PPE, safety file etc	Item	1		
2.	Preliminary and General: Preliminary and general (PNG) . PNG are those items that a project cannot do without but are not directly involved with the project final product. Such as Transport, accommodations, communication, etc	Item	1		
SEWER PIT 1 & 2					
CLEANING OF THE EXISTING PIT					
3.	Desludge and clean the sewer pit (Dry & wet chamber) and dispose to an approved dumping site. Provide dumping receipt. The pit is Size 5x5x3m deep	m ³	150		
4.	Jet out sewer pipes using high pressure jetting machine to clean all the sewer pipe from the pit to the municipality sewer line.	days	2		
5.	Make a provision to clean grit, leaves, soil and wastewater from the storm water drains and dispose to an approved dumping site	m ³	50		
MECHANICAL INSTALLATION					
6.	Site Preparation: The existing submerged sewer pumps are to be removed and delivered to the Transnet	Item	4		

	storeroom, as directed by the project manager.				
7.	Supply and install Self-priming centrifugal pump, wedge belt driven by 45kW/4P/380V/electric motors fitted with anticondensation heaters and thermistors. Installation complies with manufacture specification. Pumps and motors shall be mounted on a fabricated galvanised steel baseplate complete with belts, pulleys and guards.	item	4		
8.	Supply and fit pump accessories 150mm diameter, flanged double door non-return valves,	item	2		
9.	Supply and fit pump accessories Flanged eccentric reducer - 80mm to 150mm	item	2		
10.	Supply and fit pump accessories Hot dipped 150mm diameter flanged cast iron resilient seat gate valve.	Item	2		
11.	Supply and install Pump control panel - Dual 45 kW 400V MCC for Sewer with level float control. Note that each pit should have its own control panel. Installation complies with manufacture specification	Item	2		
STEELWORK					
12.	Supply and install a galvanized steel palisade that measures 2.4 m in height, 3 m in length, and 2 mm in thickness, along with steel posts and a galvanized steel gate.	m	30		
PIPEWORK BETWEEN PUMPS					
13.	Supply and lay hot dipped galvanized pipe of 150mm diameter, item include pipes fittings, joints and support for the full length	m	100		
TESTING & COMMISSIONING					
14.	Make provision for Commissioning of pumps, Testing and Issuing of COC	item	1		
15.	Keep site clean: Item include removal of waste, old pipe, fitting and sanitizing the areas to remove any odour	item	1		

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SEWER PIT 3 & 4					
CLEANING OF THE EXISTING PIT					
16.	Desludge and clean the sewer pit (Dry & wet chamber) and dispose to an approved dumping site. Provide dumping receipt. The pit is Size 5x5x3m deep	m ³	150		
17.	Jet out sewer pipes using high pressure jetting machine to clean all the sewer pipe from the pit to the municipality sewer line.	item	1		
18.	Make a provision to clean grit, leaves, soil and wastewater from the storm water drains and dispose to an approved dumping site	m ³	50		
MECHANICAL INSTALLATION					
19.	Site Preparation: The existing submerged sewer pumps are to be removed and delivered to the Transnet storeroom, as directed by the project manager.	Item	4		
20.	Supply and install Self-priming centrifugal pump, wedge belt driven by 37kW/4P/380V/electric motors fitted with anticondensation heaters and thermistors. Pumps and motors shall be mounted on a fabricated galvanised steel baseplate complete with belts, pulleys and guards.	No	4		
21.	Supply and install Pump control panel - Dual 37 kW 400V MCC for Sewer with level float control. Note that each pit should have its own control panel. Installation complies with manufacture specification	No	2		
22.	Supply and fit pump accessories 100mm diameter, flanged double door non-return valves,	item	2		
23.	Supply and fit pump accessories Flanged eccentric reducer - 80mm to 100mm	item	2		
24.	Supply and fit pump accessories Hot dipped 150mm diameter flanged cast iron resilient seat gate valve.	Item	2		

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STEELWORK					
25.	Supply and install a galvanized steel palisade that measures 2.4 m in height, 3 m in length, and 2 mm in thickness, along with steel posts and a galvanized steel gate	m	60		
PIPEWORK TO SPEC BETWEEN PUMPS					
26.	Supply and lay hot dipped galvanized pipe of 100mm diameter, item include pipes fittings, joints and support for the full length	m	100		
TESTING & COMMISIONING					
27.	Make provision for Commissioning of pumps, Testing and Issuing of COC	item	1		
28.	Keep site clean: Item include removal of waste, old pipe, fitting and sanitizing the areas to remove any odour	item	1		
SEWER PIT 5					
CLEANING OF THE EXISTING PIT					
29.	Desludge and clean the sewer pit (Dry & wet chamber) and dispose to an approved dumping site. Provide dumping receipt. The pit is Size 5x5x3m deep	m ³	75		
30.	Jet out sewer pipes using high pressure jetting machine to clean all the sewer pipe from the pit to the municipality sewer line.	item	1		
31.	Make a provision to clean grit, leaves, soil and wastewater from the storm water drains and dispose to an approved dumping site	m ³	50		
MECHANICAL INSTALLATION					
32.	Site Preparation: The existing submerged sewer pumps are to be removed and delivered to the Transnet storeroom, as directed by the project manager.	Item	2		
33.	Supply and install Self-priming centrifugal pump, wedge belt driven by 11kW/4P/380V/electric motors fitted with anticondensation heaters and	No	2		

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	thermistors. Pumps and motors shall be mounted on a fabricated galvanised steel baseplate complete with belts, pulleys and guards.				
34.	Supply and install Pump control panel - Dual 11 kW 400V MCC for Sewer with level float control. Note: Installation complies with manufacture specification	No	1		
35.	Supply and fit pump accessories 100mm diameter, flanged double door non-return valves,	item	1		
36.	Supply and fit pump accessories Flanged eccentric reducer - 80mm to 100mm	item	1		
37.	Supply and fit pump accessories Hot dipped 100mm diameter flanged cast iron resilient seat gate valve.	Item	1		
PIPEWORK TO SPEC BETWEEN PUMPS					
38.	Supply and lay hot dipped galvanized pipe of 100mm diameter, item include pipes fittings, joints and support for the full length	m	100		
TESTING & COMMISIONING					
39.	Make provision for Commissioning of pumps, Testing and Issuing of COC	item	1		
40.	Keep site clean: Item include removal of waste, old pipe, fitting and sanitizing the areas to remove any odour	item	1		
STORM WATER PIT 1					
CLEANING OF THE EXISTING PIT					
41.	Desludge and clean the stormwater pit (Dry & wet chamber) and dispose to an approved dumping site. Provide dumping receipt. The pit is Size 4,5x5x3m deep	m ³	67,5		
42.	Jet out sewer pipes using high pressure jetting machine to clean all the stormwater pipe from the pit to the municipality sewer line.	item	1		
43.	Make a provision to clean grit, leaves, soil and wastewater from the storm water drains and dispose to an approved dumping site	m ³	50		

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MECHANICAL INSTALLATION					
44.	Site Preparation: Removal of existing submerge stormwater pumps, and to be delivery to the Transnet storeroom as directed by the project manager	Item	1		
45.	Supply and install Self-priming centrifugal pump, wedge belt driven by 37kW/4P/380V/electric motors fitted with anticondensation heaters and thermistors. Pumps and motors shall be mounted on a fabricated galvanised steel baseplate complete with belts, pulleys and guards.	No	2		
46.	Supply and install Pump control panel - Dual 37 kW 400V MCC for Stormwater with level float control. Note: Installation complies with manufacture specification	No	1		
47.	Supply and fit pump accessories 100mm diameter, flanged double door non-return valves,	item	1		
48.	Supply and fit pump accessories Flanged eccentric reducer - 80mm to 100mm	item	1		
49.	Supply and fit pump accessories Hot dipped 100mm diameter flanged cast iron resilient seat gate valve.	Item	1		
STEELWORK					
50.	Supply and install a galvanized steel palisade that measures 2.4 m in height, 3 m in length, and 2 mm in thickness, along with steel posts and a galvanized steel gate	m	30		
PIPEWORK TO SPEC BETWEEN PUMPS					
51.	Supply and lay hot dipped galvanized pipe of 100mm diameter, item include pipes fittings, joints and support for the full length	m	100		
TESTING & COMMISIONING					
52.	Make provision for Commissioning of pumps, Testing and Issuing of COC	item	1		
53.	Keep site clean: Item include removal of waste, old pipe, fitting and sanitizing the areas to remove any odour	item	1		

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STORM WATER PIT 2 & 3					
CLEANING OF THE EXISTING PIT					
54.	Desludge and clean the stormwater pit (Dry & wet chamber) and dispose to an approved dumping site. Provide dumping receipt. The pit is Size 4,5x5x3m deep	m ³	135		
55.	Jet out sewer pipes using high pressure jetting machine to clean all the stormwater pipe from the pit to the municipality sewer line.	item	2		
56.	Make a provision to clean grit, leaves, soil and wastewater from the storm water drains and dispose to an approved dumping site	m ³	50		
MECHANICAL INSTALLATION					
57.	Site Preparation: The existing submerged sewer and stormwater pumps are to be removed and delivered to the Transnet storeroom, as directed by the project manager.	Item	2		
58.	Supply and install Self-priming centrifugal pump, wedge belt driven by 18.5 kW/4P/380V/electric motors fitted with anticondensation heaters and thermistors. Pumps and motors shall be mounted on a fabricated galvanised steel baseplate complete with belts, pulleys and guards.	No	4		
59.	Supply and install Pump control panel - Dual 18.5 kW 400V MCC for Stormwater with level float control. Note that each pit should have its own control panel. Installation complies with manufacture specification	No	2		
60.	Supply and fit pump accessories 100mm diameter, flanged double door non-return valves,	item	1		
61.	Supply and fit pump accessories Flanged eccentric reducer - 80mm to 100mm	item	1		
62.	Supply and fit pump accessories Hot dipped 100mm diameter flanged cast iron resilient seat gate valve.	Item	1		

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STEELWORK					
63.	Supply and install a galvanized steel palisade that measures 2.4 m in height, 3 m in length, and 2 mm in thickness, along with steel posts and a galvanized steel gate	m	46		
PIPEWORK TO SPEC BETWEEN PUMPS					
64.	Supply and lay hot dipped galvanized pipe of 100mm diameter, item include pipes fittings, joints and support for the full length	m	100		
TESTING & COMMISIONING					
65.	Make provision for Commissioning of pumps, Testing and Issuing of COC	item	1		
66.	Keep site clean: Item include removal of waste, old pipe, fitting and sanitizing the areas to remove any odour	item	1		
MISCELLANEOUS					
67.	As-Built Drawings to Spec	No	3		
68.	Certificate of Compliance	Sum	1		
69.	O & M Manuals,	Sum	1		
70.	Professional Fees@6%	Sum	1		
				Total (Excl VAT)	
				VAT	
				Total (Incl VAT)	