

4 X 4

HAULERS

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

DESCRIPTION OF THE WORKS: THE DESIGN, MANUFACTURE, DELIVERY, ERECT, TESTING, COMMISSIONING AND ASSET LIFECYCLE MANAGEMENT (ALCM) SUPPORT FOR CONTAINER AND BREAKBULK HANDLING EQUIPMENT FOR A PERIOD OF 10 (TEN) YEARS (AQUISITION) AND UP TP 20 (UP TO TWENTY) YEARS (ALCM) FOR TRANSNET SOC LTD (REG.NO.1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS, (HEREINAFTER REFERRED TO AS "TPT")

All Equipment Categories	Plant and Material Schedules	Tender Schedule: T.2.2-29 a
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Note to Tenderers:

Tenderers are to list in this schedule all major mechanical (including brakes), hydraulic , air- conditioning, electrical and electronic components proposed to be incorporated in the equipment offered, as well as the speed control systems. These items are to be listed by type, rating and proposed make/supplier. A motivation for why this particular make/model of component is proposed must be submitted, taking into consideration the local support environment, previous experience with the local conditions.

Component and application	Type	Rating / size	Supplier / make / model	Motivation

Signed _____

Date _____

Name _____

Position _____

Tenderer _____

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Fifth Wheel Haulers	Site Establishment Requirements	Tender Schedule: T.2.2-29 b
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It is anticipated that the Haulers will be delivered complete, but if some site assembly / erection is required, tenderers are to indicate their site establishment requirements, including the following:

- Erection site area required (m²).
- Site lay-down area required (m²).
- Estimated electricity usage per week including average usage and peak demand.
- Estimated water consumption per week including average usage and peak demand.
- Special requirements on site e.g. hard standing or concrete beams, access etc.

Name

Position

Tenderer _____

Fifth Wheel Haulers	Guarantees and Warranties	Tender Schedule: T.2.2-29 c
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The extent of guarantees and warranties in **excess of the standard 12 months** that can be offered by the Tenderer on electrical, mechanical and electronic plant and in **excess of 5 years** on the structure will play an important role in the evaluation of the tenders. Compliance of the corrosion protection to Employer's specification EEAM-Q-008 (guarantee of 10 years) is critical.

The Tenderer is required to indicate on the schedule what warrantee period is offered for each of the items listed for the haulers, as well as much detail as possible on the extent of the guarantee.

The Tenderer must also clearly indicate what technical support would be available from him after Completion of the Works. The Tenderer must also state the lead time (after request from Employer) for technical support that may be required on site during the first year of operations of the haulers.

The Tenderer is encouraged to offer any other value adding element related to guarantees, warranties and technical back-up, like preferential customer status that the Employer will be afforded, preferential pricing and/or delivery that would be applied for purchasing of spares by the Employer, etc.

In as far as possible Tenderers are to provide brochures, specifications, etc. to substantiate their compliance to the clauses in the Technical Specifications. The Tenderer's sign-off at the bottom of the returnable is deemed as confirmation that the Tenderer commits that they will comply to the clauses where they indicate compliance.

Item	Guarantees and Warranties (months)	Description of Guarantee
Corrosion Protection (compliance to EEAM-Q-008)		
Diesel Engine		
Transmission		
Hydraulic Components (Pumps, motors, cylinders, valve, ...)		
Electrical / controls		
Structure		

The scoring of the Guarantees and Warranties on Corrosion Protection will be as follows:

Score	Guarantee and Warrantees (Corrosion Protection)
0	Corrosion Protection Guarantee < 6 years = 0%
20	Corrosion Protection Guarantee > or = 6 years but less < 7 years = 20%
40	Corrosion Protection Guarantee > or = 7 years but less < 8 years = 40%
60	Corrosion Protection Guarantee > or = 8 years but less < 9 years = 60%
80	Corrosion Protection Guarantee > or = 9 years but less < 10 years = 80%
100	Corrosion Protection Guarantee > or = 10 years = 100%

The scoring of the Guarantees and Warranties on electrical, mechanical and electronic plant will be as follows:

Score	Guarantee and Warrantees (diesel motor, transmission and hydraulic components)
0	For guarantee on components of the equipment < 12 months for Diesel motor, Transmission, Hydraulic components = 0%
20	For guarantee on components of the equipment > or = 12 months for Diesel motor, Transmission and Hydraulic components = 20%
40	For guarantee on at least 1 component of the equipment > or = 18 months and the remaining 2 > or = 12 months for Diesel motor, Transmission, Hydraulic components = 40%
60	For guarantee on at least 1 component of the equipment > or = 24 months and the remaining 2 > or = 12 months for Diesel motor, Transmission, Hydraulic components = 60%
80	For guarantee on at least 2 components of the equipment > or = 24 months and the remaining one > or = 12 months for Diesel motor, Transmission, Hydraulic components = 80%

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100	For guarantee on components of the equipment > or = 24 months for Diesel motor, Transmission, Hydraulic components = 100%
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The scoring of the Guarantees and Warranties on electrical / control components will be as follows:

Score	Guarantee and Warranties (Electrical / Control components)
0	For guarantee on electrical / control components of the equipment < 6 months = 0%
20	For guarantee on electrical / control components of the equipment > or = 6 months but less than 8 months = 20%
40	For guarantee on electrical / control components of the equipment > or = 8 months but less than 10 months = 40%
60	For guarantee on electrical / control components of the equipment > or = 10 months but less than 12 months = 60%
80	For guarantee on electrical / control components of the equipment > or = 12 months but less than 24 months = 80%
100	For guarantee on electrical / control components of the equipment > or = 24 months = 100%

The scoring of the Guarantees and Warranties on the structure will be as follows:

Score	Guarantees and Warranties (Structure)
0	For a guarantee on the structure < 4 years = 0 Points
20	For a guarantee on the structure > or = to 4 years but less than 5 years = 20 %
40	For a guarantee on the structure > or = to 5 years but less than 6 years = 40 %
60	For a guarantee on the structure > or = to 6 years but less than 7 years = 60%

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80	For a guarantee on the structure > or = to 7 years but less than 8 years = 80 %
100	For a guarantee on the structure > or = to 8 years = 100 %

Details of Technical Support after completion:

- 1.
- 2.
- 3.
- 4.

Lead time for on-site Technical Support: _____ hours

Other Value Adding Elements

- 1.
- 2.
- 3.
- 4.

Signed

Date

Name

Position

Tenderer

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Fifth Wheel Hauler: 4x4	Track Record	Tender Schedule: T.2.2-29 d
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Tenderers are required to demonstrate their (or their OEM's) experience in the supply of Fifth Wheel Haulers, capable of hauling 70 000 kg load excluding the mass of the hauler to a speed of 20 km/hr, **over the last 5 years**, and to this end shall supply a sufficient detailed **comprehensive** reference list with fifth wheel hauler details and contact details of the customers. TPT will contact references to confirm track record. Note, only the experience in the supply of fifth wheel haulers will be considered for evaluation purposes. More pages can be added for the list of customers.

#	Name of Previous Customer	Contact Details	Make	No. of Units	Year
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					

Additional pages to be added as required to provide a comprehensive list.

TRANSNET PORT TERMINALS

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The scoring of the Track Record will be as follows:

Score	Track Record
0	< 12 units score 0 %
20	> or = 12 units but < 24 units score 20%
40	> or = 24 units but < 36 units score 40%
60	> or = 36 units but < 48 units score 60%
80	> or = 48 units but < 60 units score 80%
100	> or = 60 units score 100%

Signed

Date

Name

Position

Tenderer _____

Fifth Wheel Hauler	Compliance to Employer's Technical Specification	Tender Schedule: T.2.2-29 e
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Tenderers are to complete this schedule with regards to Compliance to the Employer's Technical Specification.

Note that this schedule is cross-referenced and must be read in conjunction with the Technical Specification "TPT_TS_2X4 Terminalhauler Rev No. 6". Elements of this document not completed will be deemed as non-compliance to that particular clause.

In as far as possible Tenderers are to provide brochures, specifications, etc. to substantiate their compliance to the clauses in the Technical Specifications. The Tenderer's sign-off at the bottom of the returnable is deemed as confirmation that the Tenderer commits that they will comply to the clauses where they indicate compliance.

Note: Items greyed out will not be used in scoring the Compliance to Employer's Technical Specifications as they are already accounted for in the Technical Evaluation Scorecard.

No.	Technical Spec. Clause	Comply (Y/N)	Comment (mandatory if non-compliant) and reference to returnable schedule
1. Scope			
1.	1		
2.1 Equipment Functionality and Design			
2.	2.1.1		
3.	2.1.2		
4.	2.1.3		
5.	2.1.4		
2.2 Site Specific Requirements			
6.	2.2.1		
7.	2.2.2		
8.	2.2.3		
9.	2.3.4		
2.3 Ergonomics Operator's Cab			
10.	2.3.1.1		
11.	2.3.1.2		
12.	2.3.1.3		
13.	2.3.1.4		
14.	2.3.1.5		

TRANSNET PORT TERMINALS

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15.	2.3.1.6		
16.	2.3.1.7		
17.	2.3.1.8		
18.	2.3.1.9		
19.	2.3.1.10		
20.	2.3.1.11		
21.	2.3.1.12		
22.	2.3.1.13		
23.	2.3.1.14		
24.	2.3.1.15		
25.	2.3.1.16		
3. Technical Requirements			
3.1 Chassis			
26.	3.1.1		
27.	3.1.2		
28.	3.1.3		
29.	3.1.4		
30.	3.1.5		
31.	3.1.6		
3.2 Hydraulic Lift Boom			
32.	3.2.1		
33.	3.2.2		
34.	3.2.3		
3.3 Lift Boom Hydraulic System			
35.	3.3.1		
36.	3.3.2		
37.	3.3.3		
38.	3.3.4		
39.	3.3.5		
40.	3.3.6		
41.	3.3.7		
42.	3.3.8		
43.	3.3.9		
44.	3.3.10		
45.	3.3.11		
46.	3.3.12		
3.4 Fifth Wheel			
47.	3.4.1		

TRANSNET PORT TERMINALS

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48.	3.4.2		
49.	3.4.3		
50.	3.4.4		
3.5 Engine			
51.	3.5.1		
52.	3.5.2		
53.	3.5.3		
54.	3.5.4		
55.	3.5.5		
56.	3.5.6		
57.	3.5.7		
58.	3.5.8		
59.	3.5.9		
60.	3.5.10		
61.	3.5.11		
62.	3.5.12		
63.	3.5.13		
64.	3.5.14		
65.	3.5.15		
66.	3.5.16		
67.	3.5.17		
3.6 Transmission			
68.	3.6.1		
69.	3.6.2		
70.	3.6.3		
71.	3.6.4		
72.	3.6.5		
73.	3.6.6		
74.	3.6.7		
3.7 Front Axles and Suspension			
75.	3.7.1		
3.8 Rear Axle and Suspension			
76.	3.8.1		
77.	3.8.2		
3.9 Road Wheels			
78.	3.9.1		
79.	3.9.2		
80.	3.9.3		

TRANSNET PORT TERMINALS

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81.	3.9.4		
82.	3.9.5		
83.	3.9.6		
3.10 Fuel Tank			
84.	3.10.1		
85.	3.10.2		
86.	3.10.3		
87.	3.10.4		
88.	3.10.5		
3.11 Brakes			
89.	3.11.1		
90.	3.11.2		
91.	3.11.3		
92.	3.11.4		
93.	3.11.5		
94.	3.11.6		
95.	3.11.7		
96.	3.11.8		
3.12 Steering System			
97.	3.12.1		
98.	3.12.2		
99.	3.12.3		
3.13 Electrical			
100.	3.13.1		
101.	3.13.2		
102.	3.13.3		
103.	3.13.4		
104.	3.13.5		
105.	3.13.6		
106.	3.13.7		
107.	3.13.8		
108.	3.13.9		
109.	3.13.10		
110.	3.13.11		
111.	3.13.12		
112.	3.13.13		
113.	3.13.14		
114.	3.13.15		

TRANSNET PORT TERMINALS

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115.	3.13.16		
116.	3.13.17		
117.	3.13.18		
118.	3.13.19		
119.	3.13.20		
3.14 Instrumentation			
120.	3.14.1		
121.	3.14.2		
3.15 Air Conditioning			
122.	3.15.1		
123.	3.15.2		
124.	3.15.3		
125.	3.15.4		
126.	3.15.5		
127.	3.15.6		
128.	3.15.7		
129.	3.15.8		
130.	3.15.9		
131.	3.15.10		
132.	3.15.11		
133.	3.15.12		
134.	3.15.13		
135.	3.15.14		
136.	3.15.15		
137.	3.15.16		
138.	3.15.17		
3.16 Painting			
139.	3.16.1		
140.	3.16.2		
141.	3.16.3		
142.	3.16.4		
143.	3.16.5		
144.	3.16.6		
145.	3.16.7		
146.	3.16.8		
3.17 Signage and Markings			
147.	3.17.1		
148.	3.17.2		

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

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149.	3.17.3		
150.	3.17.4		
151.	3.17.5		
152.	3.17.6		
4. Safety and Environment			
4.1 Safety Requirements			
153.	4.1.1		
154.	4.1.2		
155.	4.1.3		
156.	4.1.4		
157.	4.1.5		
4.2 Environmental Requirements			
158.	4.2.1		
4.3 Fire Protection			
159.	4.3.1		
5. Maintenance			
5.1 Lubrication			
160.	5.1.1		
161.	5.1.2		
162.	5.1.3		
5.2 Accessibility			
163.	5.2.1		
6. General			
164.	6.1		
165.	6.2		
166.	6.3		
167.	6.4		
168.	6.5		
169.	6.6		
170.	6.7		
171.	6.8		
172.	6.9		
7. Referenced Specifications			
173.	7.1 Standard Specifications		
174.	7.2 Employer Specifications		

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

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The scoring of compliance to employer's technical specifications will be as follows:

Score	Compliance to Employer's Technical specifications
0	< 124 compliant clauses = 0 %
20	<135 but >=124 compliant clauses = 20 %
40	<146 but >=135 compliant clauses = 40 %
60	<157 but >=146 compliant clauses = 60 %
80	<168 but >=157 compliant clauses = 80 %
100	>=168 compliant clauses = 100 %

Signed _____ Name _____ Position _____ Date _____

Tenderer _____

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Fifth Wheel Hauler	Delivery Lead Time	Tender Schedule: T.2.2-29 f
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The Tenderer must submit a holistic Programme for the delivery of the 4 x 4 Fifth Wheel Haulers, showing the duration and location of each major related activity e.g. manufacture, assembly, testing of each complete Haulers, cold commissioning, shipping, site erection, final testing, commissioning, training and endurance test.

The Programme must be in the form of a Gantt or Bar chart, clearly indicating key dates for progress measurements and/or payments due. Programme to clearly indicate staggered delivery (if applicable).

Further to the Programme, the Tenderer must complete the required information below.

Activity

Duration (months)

1. Order placement to commissioning and handover of first batch of haulers _____

The Tenderer is to provide TPT with a previous delivery schedule, or substantive proof that the stated delivery schedule has been achieved previously. In the event that this is not available the tenderer must provide evidence as to how this can be achieved.

Score	Delivery Lead Time
0	> 12 months = 0 %
20	> 11 months & < or = 12 months = 20%
40	> 10 months & < or = 11 months = 40%
60	> 9 months & < or = 10 months = 60%
80	> 8 months & < or = 9 months = 80%
100	< or = 8 months = 100%

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Signed

Date

Name

Position

Tenderer:

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Fifth Wheel Haulers: 4x4	Compliance to Eligibility Criteria	Tender Schedule: T.2.2-29 g
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Tenderers are to list in this schedule compliance to the Eligibility Criteria of the Fifth Wheel Haulers.

In as far as possible Tenderers are to provide brochures, specifications, etc. to substantiate their compliance to the eligibility criteria. The Tenderer's sign-off at the bottom of the returnable is deemed as confirmation that the Tenderer commits that they will comply to the listed eligibility criteria

Parameter for the 4x4 Hauler	Comply (Yes/No)
Tenderer is an original equipment manufacturer (OEM) of haulers, or an approved agent of an OEM of haulers. (Letter from OEM declaring they will be supplying TPT directly will be required.)	
The haulers shall have a minimum engine capacity of 190 kW	
The haulers shall be able to negotiate 150mm speed bumps and full oscillation of the axles is required to allow for working uneven surfaces	
Rear tyres and rims have a load rating of at least 7 700 kg per tyre at 25 km/hr"	
Front tyres and rims have a load rating of at least 7 000 kg per tyre at 25 km/hr"	
5th wheel shall have a vertical load carrying capacity of at least 35 000 kg	
The fifth wheel stroke shall be at least 800mm	
Hub reduction rear axle to have a rated capacity of at least 40 000 kg at 15 km/hr	
The Fifth Wheel to be used in conjunction with a trailer kingpin size of three and a half inches (2")	
Hydraulic boom minimum lifting capacity is to be at least 35 000 kg	

Signed _____

Date _____

Name _____

Position _____

Tenderer _____

Fifth Wheel Hauler	Supplier's Preliminary design	Tender Schedule: T.2.2-29 h
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Tenderers are to list in this schedule all specifications applicable to the Fifth Wheel Hauler offered. Note that some of the specifications will be scored in the tender evaluation.

In as far as possible Tenderers are to provide brochures, specifications, etc. to substantiate their compliance to the clauses in the Technical Specifications. The Tenderer's sign-off at the bottom of the returnable is deemed as confirmation that the Tenderer commits that they will comply to the clauses where they indicate compliance.

Parameter for Fifth Wheel Hauler	Value / Detail for <u>4 x 4</u>	Comments
Make and model of Fifth Wheel Hauler offered		
Make and model of transmission of the Fifth Wheel Hauler offered.		
The maximum vertical travel (stroke) of the hauler fifth wheel (mm)		
Travel speed of Hauler with rated load (km/hour)		
Travel speed Hauler empty (km/hour)		
Overall (maximum) width of Hauler, (mm)		
Overall (maximum) length of hauler (mm)		

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

DESCRIPTION OF THE WORKS: THE DESIGN, MANUFACTURE, DELIVERY, ERECT, TESTING, COMMISSIONING AND ASSET LIFECYCLE MANAGEMENT (ALCM) SUPPORT FOR CONTAINER AND BREAKBULK HANDLING EQUIPMENT FOR A PERIOD OF 10 (TEN) YEARS (AQUISITION) AND UP TP 20 (UP TO TWENTY) YEARS (ALCM) FOR TRANSNET SOC LTD (REG.NO.1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS, (HEREINAFTER REFERRED TO AS "TPT")

Overall (maximum) height of machine to top of the cabin (mm)		
Overall height of machine to the top of the exhaust pipe (mm)		
Ground clearance of hauler (mm)		
Operating weight of Hauler, without trailer / load (ton)		
Front axle loading of hauler with a 25 ton vertical load on the elevated fifth wheel (ton)		
Rear axle loading of hauler with a 25 ton vertical load on the elevated fifth wheel (ton)		
Capacity of Hauler fuel tank (liters)		
Fuel tank material for the hauler offered		
Make and model of diesel engine to be installed in Hauler		
Continuous power rating of engine (kW)		
Maximum torque of engine (Nm @ rpm)		
Emission standard that Hauler diesel engine complies with		
Brand of tyres to be installed on Hauler		
Load rating, size and ply rating of front tyres		

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

DESCRIPTION OF THE WORKS: THE DESIGN, MANUFACTURE, DELIVERY, ERECT, TESTING, COMMISSIONING AND ASSET LIFECYCLE MANAGEMENT (ALCM) SUPPORT FOR CONTAINER AND BREAKBULK HANDLING EQUIPMENT FOR A PERIOD OF 10 (TEN) YEARS (AQUISITION) AND UP TP 20 (UP TO TWENTY) YEARS (ALCM) FOR TRANSNET SOC LTD (REG.NO.1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS, (HEREINAFTER REFERRED TO AS "TPT")

Load rating, size and ply rating of rear tyres		
Load rating, rims of front tyres		
Load rating, rims of rear tyres		
<u>Corrosion Protection:</u> Number of Coats of Paint Minimum overall Paint Thickness		

Diesel engines complies with at least "EUROMOT II" emission standards (Yes / No)	
Confirmation that fuel tank capacity is sufficient for Hauler to operate for an ten (10) hour shift (Yes / No)	

Other "Value-add" systems; designs; innovations
1.
2.
3.
4.
5.
6.

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

DESCRIPTION OF THE WORKS: THE DESIGN, MANUFACTURE, DELIVERY, ERECT, TESTING, COMMISSIONING AND ASSET LIFECYCLE MANAGEMENT (ALCM) SUPPORT FOR CONTAINER AND BREAKBULK HANDLING EQUIPMENT FOR A PERIOD OF 10 (TEN) YEARS (AQUISITION) AND UP TP 20 (UP TO TWENTY) YEARS (ALCM) FOR TRANSNET SOC LTD (REG.NO.1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS, (HEREINAFTER REFERRED TO AS "TPT")

The scoring of Paint Thickness and number of coats will be as follows:

Score	Paint Thickness and number of coats
0	Paint thickness < 200 microns or less than 3 coats paint = 0%
20	Paint thickness > or = 200 but < 220 microns and at least 3 coats paint = 20%
40	Paint thickness > or = 220 but < 250 microns and at least 3 coats paint = 40%
60	Paint thickness > or = 250 but < 270 microns and at least 3 coats paint = 60%
80	Paint thickness > or = 270 but < 300 microns and at least 3 coats paint = 80%
100	Paint thickness > or = 300 microns and at least 3 coats paint = 100%

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

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The scoring of Fuel tank capacity will be as follows:

Score	Fuel tank capacity
0	For the machine operating a < 8 hours shift on one fuel tank = 0%
20	For the machine operating a > or = 8 hours shift on one fuel tank = 20%
40	For the machine operating a > or = 9 hours shift on one fuel tank = 40%
60	For the machine operating a > or = 10 hours shift on one fuel tank = 60%
80	For the machine operating a > or = 11 hours shift on one fuel tank = 80%
100	For the machine operating a > or = 12 hours shift on one fuel tank = 100%

Signed _____

Date _____

Name _____

Position _____

Tenderer _____

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

DESCRIPTION OF THE WORKS: THE DESIGN, MANUFACTURE, DELIVERY, ERECT, TESTING, COMMISSIONING AND ASSET LIFECYCLE MANAGEMENT (ALCM) SUPPORT FOR CONTAINER AND BREAKBULK HANDLING EQUIPMENT FOR A PERIOD OF 10 (TEN) YEARS (AQUISITION) AND UP TP 20 (UP TO TWENTY) YEARS (ALCM) FOR TRANSNET SOC LTD (REG.NO.1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS, (HEREINAFTER REFERRED TO AS "TPT")

Haulers for Transnet	Mandatory Capital Spares List	Tender Schedule: T.2.2-29 i
-----------------------------	--------------------------------------	--

Tenderers are to complete this returnable for the capital spares identified by Employer below, for the haulers.

Item #	Description	Supplier	No Required	Cost per unit	Total Cost
1	Engine		4		
2	Front axle		4		
3	Fifth wheel assembly		5		
4	HDS300 wheel reducer drive axle		4		
5	Transmission		4		

Signed

Date

Name

Position

Tenderer

Returnable Schedule

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

DESCRIPTION OF THE WORKS: THE DESIGN, MANUFACTURE, DELIVERY, ERECT, TESTING, COMMISSIONING AND ASSET LIFECYCLE MANAGEMENT (ALCM) SUPPORT FOR CONTAINER AND BREAKBULK HANDLING EQUIPMENT FOR A PERIOD OF 10 (TEN) YEARS (AQUISITION) AND UP TP 20 (UP TO TWENTY) YEARS (ALCM) FOR TRANSNET SOC LTD (REG.NO.1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS, (HEREINAFTER REFERRED TO AS "TPT")

Haulers for Transnet	Recommended Capital Spares	Tender Schedule: T.2.2-29 j
-----------------------------	-----------------------------------	--

Note to Tenderer:

Tenderers are to complete this schedule with regards to recommended critical spares required to support the Haulers for the first 5 years of operation, which are not included in the 'Mandatory Critical Spare and 'Maintenance Spares listed separately.

Tenderers to indicate those spares that will be available in South Africa (i.e. locally available) and provide a method statement detailing procedure/action plan on how stock will be made available in South Africa.

Prices to be fixed for a period of 12 months.

#	Description	Supplier	Locally Avail (Yes/No)	Delivery Lead Time	Price
1					
2					
3					
4					
5					
6					
Etc.					

Signed

Date

Name

Position

Tenderer

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

DESCRIPTION OF THE WORKS: THE DESIGN, MANUFACTURE, DELIVERY, ERECT, TESTING, COMMISSIONING AND ASSET LIFECYCLE MANAGEMENT (ALCM) SUPPORT FOR CONTAINER AND BREAKBULK HANDLING EQUIPMENT FOR A PERIOD OF 10 (TEN) YEARS (AQUISITION) AND UP TO 20 (UP TO TWENTY) YEARS (ALCM) FOR TRANSNET SOC LTD (REG.NO.1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS, (HEREINAFTER REFERRED TO AS "TPT")

Haulers for Transnet	Maintenance Spares List	Tender Schedule: T.2.2-29 k
-----------------------------	--------------------------------	--

Tenderers are to complete this returnable for the maintenance spares identified by Employer below, for the haulers to support the haulers for the first 12 months required for. Tenderers are reminded that the priced option for the spares listed below may be exercised at awarding of the business.

Item #	Description	Supplier	No Required	Cost per unit	Total Cost
1	Air pressure signal light switch		20		
2	Brake friction plate		80		
3	Brake shoe assembly (rear)		32		
4	Battery master switch		20		
5	Shock absorber		32		
6	Expansion box assembly		16		
7	Central relay		50		
8	Air spring (rear axle air bag)		32		
9	Lower friction plate		80		
10	Lower shoe piece		80		
11	Voltage limit valve		32		
12	Solenoid valve		32		
13	Temperature sensor		30		
14	Fifth wheel lifting cylinder		20		
15	Non-signal switch lock		5		
16	Air spring (Cabin air bag)		20		
17	Supercharge intercooler		10		
18	Water-cooled radiator assembly		10		
19	Button control valve		50		
20	Full hydraulic steering		10		

Returnable Schedule

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

DESCRIPTION OF THE WORKS: THE DESIGN, MANUFACTURE, DELIVERY, ERECT, TESTING, COMMISSIONING AND ASSET LIFECYCLE MANAGEMENT (ALCM) SUPPORT FOR CONTAINER AND BREAKBULK HANDLING EQUIPMENT FOR A PERIOD OF 10 (TEN) YEARS (AQUISITION) AND UP TO 20 (UP TO TWENTY) YEARS (ALCM) FOR TRANSNET SOC LTD (REG.NO.1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS, (HEREINAFTER REFERRED TO AS "TPT")

21	Flash relay		40		
22	Offset terminal truck LED headlights		40		
23	LED front fog lights		40		
24	Wiper/flash interval controller		50		
25	Electric pump assembly / mechanical lock		20		
26	Wheel nut		500		
27	Circulating ball power steering		16		
28	Steering oil reservoir		16		
29	Dry air filter blocking alarm switch		15		
30	7-hole trailer socket		50		
31	Pressure limiting valve (1.0 MPa)		10		
32	Wheel bolts		30		
33	Wheel fastening bolt		500		
34	Brake chamber		10		
35	Turbocharger		5		
36	Brake shoe assembly (front)		5		
37	Air filter outer		50		
38	Terminal truck front and steering light		10		
39	Right front steering light, anterior position light		10		
40	Cab locking		10		
41	Wiper motor		15		
42	Wiper arm		30		
43	Wiper blade		100		
44	Fifth wheel lifting pump		20		
45	Air filter inner		50		
46	Fuel filter		50		
47	Water/fuel seperator filter		50		

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

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48	Diesel filter		50		
49	Engine oil filter		50		
50	Steering oil filter		50		
51	Saddle oil return filter element		15		
52	5 th wheel		10		
53	5th wheel Control block and magnetic valve		5		
54	Aircon pump		20		
55	Operator seat		10		
56	5th wheel joystick		15		
57	Gear selection panel		20		
58	Spare wheels (rim & tyre)		30		
59	Air horn		30		
60	Cabin door		5		
61	Fuel sensor		10		
62	Set of cabin glass (all glass)		5		

Signed

Date

Name

Position

Tenderer

Returnable Schedule

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

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Haulers for Transnet	Recommended Maintenance Spares	Tender Schedule: T.2.2-29 I
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Note to Tenderer:

Tenderers are to complete this schedule with regards to recommended maintenance spares required to support the Haulers for the first 12 months of operation, which are not included in the 'Mandatory Capital Spares, Recommended Capital Spares' and 'Maintenance Spares' listed separately.

Tenderers to indicate those spares that will be available in South Africa (i.e. locally available) and provide a method statement detailing procedure/action plan on how stock will be made available in South Africa.

Prices to be fixed for a period of 12 months.

#	Description	Supplier	Locally Avail (Yes/No)	Delivery Lead Time	Price
1					
2					
3					
4					
5					
6					
Etc.					

Signed

Date

Name

Position

Tenderer

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

DESCRIPTION OF THE WORKS: THE DESIGN, MANUFACTURE, DELIVERY, ERECT, TESTING, COMMISSIONING AND ASSET LIFECYCLE MANAGEMENT (ALCM) SUPPORT FOR CONTAINER AND BREAKBULK HANDLING EQUIPMENT FOR A PERIOD OF 10 (TEN) YEARS (AQUISITION) AND UP TP 20 (UP TO TWENTY) YEARS (ALCM) FOR TRANSNET SOC LTD (REG.NO.1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS, (HEREINAFTER REFERRED TO AS "TPT")

Diesel & Diesel Electric Machines	Total Cost of Ownership	Tender Schedule: T.2.2-29 m
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Note to Tenderer:

Tenderers are to complete this schedule with regards to the Total Cost of Ownership (TCO) of the diesel and diesel electric machines. This is to be in the form of a spread sheet with the information as set out below.

Servicing							
Servicing costs							
Service Type i.e. 1000hrs, 2000hrs,etc (A,B,C,D,E)							
Service intervals (Operating Hours)	100hr	500hr	1,000hr	2,000hr	3,000hr	4,000hr	Etc. repeated for life of straddle
Hours required for service at the different intervals							
Consumables for the different services (to be identified and priced)							
List each item							
Total for Consumables							
Fuel Consumption							
Average expected consumption assuming 70% max revs	l/hr						
Tyre Life Expectancy	Hours						
Mid-life refurbishment details							
(Assuming 4500 operating hours per year. Give details of hours when this will be performed)							
List each item							
Total for mid-life refurbishment							

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

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Hours required for mid-life refurbishment							
Design life in hours for equipment	Hours						
Total							

Signed

Date

Name

Position

Tenderer

BIG FORKLIFT

Large Fork Lifts	Compliance to EEAM-Q-008 Corrosion Protection	Tender Schedule: T.2.2-30 a
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Compliance of the corrosion protection to Employer's specification EEAM-Q-008 (guarantee of 10 years) is critical.

The Tenderer is required to indicate on the schedule what warrantee period is offered for each of the items listed for the Forklifts, as well as much detail as possible on the extent of the guarantee.

The Tenderer must also clearly indicate what technical support would be available from him after Completion of the Works. The Tenderer must also state the lead time (after request from Employer) for technical support that may be required on site during the first year of operations of the Forklifts.

The Tenderer is encouraged to offer any other value adding element related to guarantees, warrantees, and technical back-up, like preferential customer status that the Employer will be afforded, preferential pricing and/or delivery that would be applied for purchasing of spares by the Employer, etc.

Item	Guarantees and Warranties (months)	Description of Guarantee
Corrosion Protection compliance with EEAM-Q-008 Corrosion Protection Guarantee		

The scoring principle for guarantees and warranties on Corrosion Protection will be as follows:

Score	Number of years for guarantees and warranties (Corrosion Protection compliance with EEAM-Q-008 Corrosion Protection Guarantee)
0%	Corrosion Protection Guarantee < 6 years
20%	Corrosion Protection Guarantee > or = 6 years but less < 7 years
40%	Corrosion Protection Guarantee > or = 7 years but less < 8 years
60%	Corrosion Protection Guarantee > or = 8 years but less < 9 years
80%	Corrosion Protection Guarantee > or = 9 years but less < 10 years
100%	Corrosion Protection Guarantee > or = 10 years

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

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Signed _____ Date _____

Name _____ Position _____

Tenderer _____

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

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Large Forklifts	Compliance to Eligibility Criteria	Tender Schedule: T.2.2-29 b
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Tenderers are to list in this schedule compliance to the Eligibility Criteria of the Forklifts

#	Parameter for Forklifts	Comply (Yes/No)
1	Tenderer is an original equipment manufacturer (OEM) of Empty Container Handling (ECH),. (Letter from OEM declaring they will be supplying TPT directly will be required.)	
2	The forklifts shall have a rated lifting capacity of:	
2.1	(42t, 32t, 18, 12t): at a 1200 mm load centre.	
3	Minimum lifting height with rated load of:	
3.2	(42t, 32t, 18, 12t)n: (top of forks) of 4000 mm.	
4	The forklifts shall have motorised side shift travel of at least	
4.2	(42t, 32t, 18, 12t): 300mm.	
5	Compliance to EUROMOT II emissions standard as a minimum	
6	The forklifts shall have both foot and park brakes capable of stopping/ holding the forklift with rated load on 1:8 gradient.	
7	Fork attachment to the forklift to be of the 'hook on' type fork mounting mechanism to facilitate easy interchangeability of fork sets.	
8	Forklift shall have an enclosed cabin, fitted with an air-conditioner.	

Signed _____ Date _____

Name _____ Position _____

Tenderer _____

Large Fork Lifts		Compliance to Employer's Technical Specification	Tender Schedule: T.2.2-30 c
Note that this schedule is cross-referenced and must be read in conjunction with the Technical Specification TPT_TS_FL. Elements of this document not completed will be deemed as non-compliance to that particular clause. The Tenderer's sign-off at the bottom is deemed as confirmation that this document has been read in conjunction with the Technical Specification.			
Technical Spec. Clause	Comply (Y/N)	Comment (mandatory if non-compliant) and reference to returnable schedule	
1. Scope			
1			
2.1 Equipment Design Characteristics			
2.1.1			
2.2 Ergonomics			
2.2.1.1			
2.2.1.2			
2.2.1.3			
2.2.1.4			
2.2.1.5			
2.2.1.6			
2.2.1.7			
2.2.1.8			
2.2.1.9			
2.2.1.10			
2.2.1.11			
2.2.1.12			
2.2.1.13			
3. Technical / Technology Requirements			
3.1.1 Chassis			
3.1.1.1			
3.1.2 Engine			
3.1.2.1			
3.1.2.2			
3.1.2.3			
3.1.2.4			
3.1.2.5			

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

DESCRIPTION OF THE WORKS: THE DESIGN, MANUFACTURE, DELIVERY, ERECT, TESTING, COMMISSIONING AND ASSET LIFECYCLE MANAGEMENT (ALCM) SUPPORT FOR CONTAINER AND BREAKBULK HANDLING EQUIPMENT FOR A PERIOD OF 10 (TEN) YEARS (AQUISITION) AND UP TO 20 (UP TO TWENTY) YEARS (ALCM) FOR TRANSNET SOC LTD (REG.NO.1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS, (HEREINAFTER REFERRED TO AS "TPT")

3.1.2.6		
3.1.2.7		
3.1.3 Transmission		
3.1.3.1		
3.1.3.2		
3.1.4 Drive Axle		
3.1.4.1		
3.1.4.2		
3.1.5 Rear Axle		
3.1.5.1		
3.1.5.2		
3.1.5.3		
3.1.5.4		
3.1.6 Road Wheels		
3.1.6.1		
3.1.6.2		
3.1.6.3		
3.1.6.4		
3.1.6.5		
3.1.7 Hydraulic System		
3.1.7.1		
3.1.7.2		
3.1.7.3		
3.1.7.4		
3.1.7.5		
3.1.8 Fuel Tank		
3.1.8.1		
3.1.8.2		
3.1.8.3		
3.1.8.4		
3.1.8.5		
3.1.8.6		
3.1.9 Electrical		
3.1.9.1		
3.1.9.2		
3.1.9.3		
3.1.9.4		

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

DESCRIPTION OF THE WORKS: THE DESIGN, MANUFACTURE, DELIVERY, ERECT, TESTING, COMMISSIONING AND ASSET LIFECYCLE MANAGEMENT (ALCM) SUPPORT FOR CONTAINER AND BREAKBULK HANDLING EQUIPMENT FOR A PERIOD OF 10 (TEN) YEARS (AQUISITION) AND UP TO 20 (UP TO TWENTY) YEARS (ALCM) FOR TRANSNET SOC LTD (REG.NO.1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS, (HEREINAFTER REFERRED TO AS "TPT")

3.1.9.5		
3.1.9.6		
3.1.9.7		
3.1.9.8		
3.1.9.9		
3.1.9.10		
3.1.9.11		
3.1.9.12		
3.1.10 Boom		
3.1.10.1		
3.1.10.2		
3.1.10.3		
3.1.11 Instrumentation		
3.1.11.1		
3.1.11.2		
3.1.11.3		
3.1.11.4		
3.1.11.5		
3.1.12 Telescopic Spreader		
3.1.12.1		
3.1.12.2		
3.1.12.3		
3.1.12.4		
3.1.12.5		
3.1.12.6		
3.1.12.7		
3.1.12.8		
3.1.12.9		
3.1.12.10		
3.1.12.11		
3.1.12.12		
3.1.12.13		
3.1.13 Air Conditioning		
3.1.13.1		
3.1.13.2		
3.1.13.3		
3.1.13.4		

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

DESCRIPTION OF THE WORKS: THE DESIGN, MANUFACTURE, DELIVERY, ERECT, TESTING, COMMISSIONING AND ASSET LIFECYCLE MANAGEMENT (ALCM) SUPPORT FOR CONTAINER AND BREAKBULK HANDLING EQUIPMENT FOR A PERIOD OF 10 (TEN) YEARS (AQUISITION) AND UP TO 20 (UP TO TWENTY) YEARS (ALCM) FOR TRANSNET SOC LTD (REG.NO.1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS, (HEREINAFTER REFERRED TO AS "TPT")

3.1.13.5		
3.1.13.6		
3.1.13.7		
3.1.14 Painting		
3.1.14.1		
3.1.14.2		
3.1.14.3		
3.1.14.4		
3.1.14.5		
3.1.14.6		
3.1.15 Signage and Markings		
3.1.15.1		
3.1.15.2		
3.1.15.3		
3.1.15.4		
3.1.15.5		
3.1.15.6		
4. Safety and Environment		
4.1 Safety Requirements		
4.1.1		
4.1.2		
4.1.3		
4.1.4		
4.1.5		
4.1.6		
4.1.7		
4.1.8		
4.2 Environmental Requirements		
4.2.1		
5. Maintenance		
5.1 Lubrication		
5.1.1		
5.1.2		
5.1.3		
5.2 Accessibility		
5.2.1		

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

DESCRIPTION OF THE WORKS: THE DESIGN, MANUFACTURE, DELIVERY, ERECT, TESTING, COMMISSIONING AND ASSET LIFECYCLE MANAGEMENT (ALCM) SUPPORT FOR CONTAINER AND BREAKBULK HANDLING EQUIPMENT FOR A PERIOD OF 10 (TEN) YEARS (AQUISITION) AND UP TO 20 (UP TO TWENTY) YEARS (ALCM) FOR TRANSNET SOC LTD (REG.NO.1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS, (HEREINAFTER REFERRED TO AS "TPT")

6. General		
6.1		
6.2		
6.3		
6.4		
6.5		
6.6		
7. Referenced Specifications		
7.1 Standard Specifications		
7.2 Employer Specifications		

The scoring principle for Compliance to Employer's Technical Specification will be as follows:

Score	Calculation of points allocated as follows: (Number of clauses compliant - 93) /31 * 25 points
0	< 93 compliant clauses = 0 points
20	= or > 93 compliant clauses and less than 124 = 75 % compliant = 0 points
25	124 compliant clauses = 100 % compliant = 25 points

Signed _____ Date _____

Name _____ Position _____

Tenderer _____

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

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Large Fork Lifts	Compliance to EEAM-Q-008 Paint Thickness and number of coats	Tender Schedule: T.2.2-30 d
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The Tenderer is required comply to EEAM-Q-008 Paint Thickness and number of coats.

Item	Value / Detail	Comments
Paint thickness		
Number of Coats of Paint		
Minimum overall Paint Thickness		

The scoring principle for Corrosion Protection compliance with EEAM-Q-008 Paint Thickness is as follows.

Score	Compliance to EEAM-Q-008 Paint Thickness and number of coats
0%	Paint thickness < 200 microns or less than 3 coats paint
20%	Paint thickness > or = 200 but < 220 microns and at least 3 coats paint
40%	Paint thickness > or = 220 but < 250 microns and at least 3 coats paint
60%	Paint thickness > or = 250 but < 270 microns and at least 3 coats paint
80%	Paint thickness > or = 270 but < 300 microns and at least 3 coats paint
100%	Paint thickness > or = 300 microns and at least 3 coats paint

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TRANSNET PORT TERMINALS

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Large Fork Lifts	Lead Time	Tender Schedule: T.2.2-30 e
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The Tenderer must submit a holistic Programme for the delivery of the Forklifts (FL's) to various terminals, showing the duration and location of each major related activity e.g. manufacture, assembly, testing of each complete Fork Lifts, cold commissioning, shipping, site erection, final testing, commissioning, training and endurance test.

The Programme must be in the form of a Gantt or Bar chart, clearly indicating key dates for progress measurements and/or payments due. Programme to clearly indicate staggered delivery (if applicable). Further to the Programme, the Tenderer must complete the required information below.

Lead time from contract award to commissioning & handover (including endurance testing) of first batch of Fork Lifts's. (Point allocation to be pro-rata for staggered delivery.)

Activity

Duration (months)

- Order placement to commissioning and handover of **first batch** of 42 ton [3 off], 32 ton [3 off] and 18 ton [11 off] FL's _____

The scoring principle for delivery lead time will be as follows:

Score	First Batch Delivery Lead Time – 42 ton [3 off], 32 ton [3 off] and 18 ton [11 off]
0	> 9 months
8	> 8 months & < or = 9 months
12	> 7 months & < or = 8 months
16	> 6 months & < or = 7 months
20	< or = 6 months

Signed _____ Position _____

Name _____ Position _____

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

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Tenderer _____

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

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Large Fork Lifts	Fuel Tank Capacity	Tender Schedule: T.2.2-30 f
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The Tenderer is required to provide Fuel Tank Parameters

Item	Value / Detail	Comments
Capacity of fuel tank (liters)		
Confirmation that fuel tank capacity is sufficient for machine to operate for an eight-hour shift (Yes / No)		

The scoring principle for Fuel Tank Capacity is as follows.

Score	Required operating hours on a Single Fuel tank
0%	For the machine operating a < 8 hours shift on one fuel tank
20%	For the machine operating a > or = 8 hours shift on one fuel tank
40%	For the machine operating a > or = 9 hours shift on one fuel tank
60%	For the machine operating a > or = 10 hours shift on one fuel tank
80%	For the machine operating a > or = 11 hours shift on one fuel tank
100%	For the machine operating a > or = 12 hours shift on one fuel tank

Signed _____ Date _____

Name _____ Position _____

Tenderer _____

Large Fork Lifts	Guarantees and Warranties	Tender Schedule: T.2.2-30 g
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The extent of guarantees and warranties in **excess of the standard 12 months** that can be offered by the Tenderer on electrical, mechanical and electronic plant and in **excess of 60 months** on the structure will play an important role in the evaluation of the tenders.

The Tenderer is required to indicate on the schedule what warranty period is offered for each of the items listed for the Fork Lifts, as well as much detail as possible on the extent of the guarantee.

The Tenderer must also clearly indicate what technical support would be available from him after Completion of the Works. The Tenderer must also state the lead time (after request from Employer) for technical support that may be required on site during the first year of operations of the Fork Lifts.

The Tenderer is encouraged to offer any other value adding element related to guarantees, warranties, and technical back-up, like preferential customer status that the Employer will be afforded, preferential pricing and/or delivery that would be applied for purchasing of spares by the Employer, etc.

Item	Guarantees and Warranties (months)	Description of Guarantee
Diesel Engine		
Transmission		
Hydraulic Components (Pumps, motors, cylinders, valve, ...)		
Electrical / controls		
Structure		

Other Value Adding Elements

- 1.
- 2.
- 3.
- 4.

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

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The scoring principle for guarantees and warranties on critical components will be as follows:

Score	Number of years for guarantees and warranties on diesel motor, transmission, and hydraulic components of the equipment
0%	For guarantee on components of the equipment < 12 months for Diesel motor, Transmission, Hydraulic components
20%	For guarantee on components of the equipment > or = 12 months for Diesel motor, Transmission and Hydraulic components
40%	For guarantee on at least 1 component of the equipment > or = 18 months and the remaining 2 > or = 12 months for Diesel motor, Transmission, Hydraulic components
60%	For guarantee on at least 1 component of the equipment > or = 24 months and the remaining 2 > or = 12 months for Diesel motor, Transmission, Hydraulic components
80%	For guarantee on at least 2 components of the equipment > or = 24 months and the remaining one > or = 12 months for Diesel motor, Transmission, Hydraulic components
100%	For guarantee on components of the equipment > or = 24 months for Diesel motor, Transmission, Hydraulic components

The scoring principle for guarantees and warranties on electrical / control components of the equipment will be as follows:

Score	Number of years for guarantees on electrical / control components of the equipment
0%	For guarantee on electrical / control components of the equipment < 6 months
20%	For guarantee on electrical / control components of the equipment > or = 6 months but less than 8 months
40%	For guarantee on electrical / control components of the equipment > or = 8 months but less than 10 months
60%	For guarantee on electrical / control components of the equipment > or = 10 months but less than 12 months
80%	For guarantee on electrical / control components of the equipment > or = 12 months but less than 24 months
100%	For guarantee on electrical / control components of the equipment > or = 24 months

The scoring principle for Guarantees and Warranties on the Structure will be as follows:

Score	Number of years for guarantees and warranties of the Structure
0%	For a guarantee on the structure < 4 years
20%	For a guarantee on the structure > or = to 4 years but less than 5 years

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

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40%	For a guarantee on the structure > or = to 5 years but less than 6 years
60%	For a guarantee on the structure > or = to 6 years but less than 7 years
80%	For a guarantee on the structure > or = to 7 years but less than 8 years
100%	For a guarantee on the structure > or = to 8 years

Signed _____ Date _____

Name _____ Position _____

Tenderer _____



TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

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Fork-Lift (FL)	Origin of Parts / Components Making up Fork-Lift	Tender Schedule: T.2.2-30 h
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Tenderers are to indicate where the different parts and components for the FL will be fabricated or sourced from for the FL offered. Parts / components making up the entire Fork-Lift are to be listed.

Part / Component	Sub-Contractor / Supplier	Country

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

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Signed

Date

Name

Position

Tenderer

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

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All Equipment Categories	Plant and Material Schedules	Tender Schedule: T.2.2-30 i
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Note to Tenderers:

Tenderers are to list in this schedule all major mechanical (including brakes), hydraulic , air- conditioning, electrical and electronic components proposed to be incorporated in the equipment offered, as well as the speed control systems. These items are to be listed by type, rating and proposed make/supplier. A motivation for why this particular make/model of component is proposed must be submitted, taking into consideration the local support environment, previous experience with the local conditions.

Component and application	Type	Rating / size	Supplier / make / model	Motivation

Signed _____

Date _____

Name _____

Position _____

Tenderer _____

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2022/08/0688/9421/RFP

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T.2.2-30 j

Recommended Critical Spares Large FL

Note to Tenderer:

Tenderers are to complete this schedule with regards to recommended critical spares required to support the equipment supplied for the first 5 years of operation, excluding the 'Mandatory Critical Spares'

Tenderers to indicate those spares that will be available in South Africa (i.e. locally available) and provide a method statement detailing procedure/action plan on how stock will be made available in South Africa.

Prices to be fixed for a period of 12 months.

#	Description	Supplier	Locally Avail (Yes/No)	Delivery Lead Time	Price
1					
2					
3					
4					
5					
6					
Etc.	Additional page/s to be added to supply comprehensive list				

Signed

Date

Name

Position

Tenderer
