

Empty Container Handlers	Guarantees and Warranties	Tender Schedule: T.2.2-32 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 warrantee period is offered for each of the items listed for the Empty Container Handlers, 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 Empty Container Handlers.

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		

Details of Technical Support after completion:

- 1.
- 2.
- 3.
- 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")

Lead time for on-site Technical Support: _____ hours

Other Value Adding Elements

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

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

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100%	For guarantee on electrical / control components of the equipment > or = 24 months
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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
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 _____

Empty Container Handlers	Compliance to EEAM-Q-008 Corrosion Protection	Tender Schedule: T.2.2-32 h
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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 Empty Container Handlers, 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 Empty Container Handlers.

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

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Signed _____ Date _____

Name _____ Position _____

Tenderer _____

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Empty Container Handlers	Lead Time	Tender Schedule: T2.2-32 j
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The Tenderer must submit a holistic Program me for the delivery of the **XXX** Empty Container Handlers (ECH) to **various terminals**, showing the duration and location of each major related activity e.g. manufacture, assembly, testing of each complete Empty Container Handlers, 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 ECH's. (Point allocation to be pro-rata for staggered delivery.)

Name of the Terminal _____

Activity	Duration (months)
1. Order placement to commissioning and handover of first batch of XX ECH's	_____
2. Order placement to commissioning and handover of second batch of XX ECH's	_____
3. Order placement to commissioning and handover of third batch of XX ECH's	_____

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

Score	First Batch Delivery Lead Time
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

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Score	Second Batch Delivery Lead Time
0	> 11 months
8	> 10 months & < or = 11 months
12	> 9 months & < or = 10 months
16	> 8 months & < or = 9 months
20	< or = 8 months

Score	Third Batch Delivery Lead Time
0	> 13 months
8	> 12 months & < or = 13 months
12	> 11 months & < or = 12 months
16	> 10 months & < or = 11 months
20	< or = 10 months

Signed_____Position_____

Name_____Position_____

Tenderer _____

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Empty Container Handlers	Supplier's Preliminary Design	Tender Schedule: T2.2-32 k
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Tenderers are to list in this schedule all specifications applicable to the Empty Container Handler offered.

Parameter for Empty Container Handlers	Value / Detail	Comments
Safe lifting capacity of ECH (ton)		
The spreader lift height (top of container being lifted) with rated load, above floor level (m)		
Angle to which mast can tilt forward (degrees)		
Angle to which mast can tilt backwards (degrees)		
Side shift of the spreader to either side of the centre line (mm)		
Diesel engine complies with "EUROMOT III" emission standards (Yes / No)		
Travel speed of the machine with rated load (km/hour)		
Lifting speed of the machine with rated load (m / sec)		
Lifting speed of the machine with empty spreader (m / sec)		
Confirm a load moment device is fitted to prevent unstable operation (Yes/No)		
Capacity of fuel tank (liters)		

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Parameter for Empty Container Handlers	Value / Detail	Comments
Confirmation that fuel tank capacity is sufficient for machine to operate for an eight-hour shift (Yes / No)		
Gross machine weight (ton)		
Height of machine with the spreader down (m)		
Width of machine, excluding spreader (m)		
<u>Corrosion Protection:</u> Number of Coats of Paint Minimum overall Paint Thickness		
Other "Value-add" systems; designs; innovations		
1.		
2.		
3.		
4.		
5.		

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The scoring principle for travel speed will be as follows:

Score	Travel speed of machine, with rated load
0	< 15 km/hour
1	> or = 15 but < 20 km/hour
5	> or = 20 but < 25 km/hour
10	> or = 25 km/hour

The scoring principle lifting speed with rated load will be as follows:

Score	Lifting speed of machine, with rated load
0	< 400 mm / sec
1	> or = 400 but < 450 mm / sec
5	> or = 450 but < 500 mm / sec
10	> or = 500 mm / sec

The scoring principle lifting speed with empty spreader will be as follows:

Score	Lifting speed of machine, with empty spreader
0	< 400 mm / sec
1	> or = 400 but < 500 mm / sec
5	> or = 500 but < 550 mm / sec
10	> or = 550 mm / sec

Signed _____

Date _____

Name _____

Position _____

Tenderer _____

Empty Container Handlers	Compliance to EEAM-Q-008 Paint Thickness and number of coats	Tender Schedule: T2.2-32 I
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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

Signed _____ Date _____

Name _____ Position _____

Tenderer _____

Empty Container Handlers	Fuel Tank Capacity	Tender Schedule: T2.2-32 m
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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	Compliance to EEAM-Q-008 Paint Thickness and number of coats
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 _____

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Empty Container Handlers	Site Establishment Requirements	Tender Schedule: T.2.2-32 n
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It is anticipated that the Empty Container Handlers 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.

Signed _____ Date _____

Name _____ Position _____

Tenderer _____

Empty container Handlers	Compliance to Employer's Technical Specification	Tender Schedule: T2.2-32 o)
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Note that this schedule is cross-referenced and must be read in conjunction with the Technical Specification TPT_TS_ECH Rev 3. 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.

<u>Technical Spec. Clause</u>	<u>Comply (Y/N)</u>	<u>Comment (mandatory if non-compliant) and reference to returnable schedule</u>
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		

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3.1.2.5		
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		

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3.1.9.4		
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		

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3.1.13.4		
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		

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5.2.1		
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	93 compliant clauses = 75 % compliant = 0 points
25	124 compliant clauses = 100 % compliant = 25 points

Signed _____ Date _____

Name _____ Position _____

Tenderer _____

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Diesel & Diesel Electric Machines	Total Cost of Ownership	Tender Schedule: T2.2-32 p
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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							

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

Signed

Date

Name

Position

Tenderer

MHC

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")

Mobile Harbour Crane	Site Establishment Requirements	Tender Schedule: T.2.2-33 a
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It is anticipated that the Mobile Harbour Crane 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.

Signed

Date

Name

Position

Tenderer _____

Mobile Harbour Crane	Guarantees or Warranties	Tender Schedule: T2.2-33 b
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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 components, 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 is critical.

The Tenderer is required to indicate on the schedule what warrantee period is offered for each of the items listed, 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 Mobile Harbour Cranes.

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 offered (duration in months)	Description of Guarantee
Structure		
Diesel Motor		
Generator		
Spreader		
PLC's		
Gearboxes		
Electrical Motors		
Electrical Drives		
Hoisting Brakes		
Hydraulic components		

TRANSNET PORT TERMINALS

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The scoring of the **Guarantee on components** will be as follows:

Weighting	Scoring Principal
100%	For all of the following components having a guarantee of > or = 2 years, then 100 points: diesel motor, generator, spreader, hydraulic components, electrical drives, Gearboxes, Electrical Motors, Hoisting Brakes and PLC
80%	For at least 5 of the following components having a guarantee of > or = 2 years, and the remaining 4 having a guarantee of at least > or = 1 year, then 80 points: diesel motor, generator, spreader, hydraulic components, electrical drives, Gearboxes, Electrical Motors, Hoisting Brakes and PLC
60%	For at least 3 of the following components having a guarantee of > or = 2 years, and the remaining 6 having a guarantee of at least > or = 1 year, then 60 points: diesel motor, generator, spreader, hydraulic components, electrical drives, Gearboxes, Electrical Motors, Hoisting Brakes and PLC
40%	For all of the following components having a guarantee of at least > or = 1 year, then 40 points: diesel motor, generator, spreader, hydraulic components, electrical drives, Gearboxes, Electrical Motors, Hoisting Brakes and PLC
20%	For at least 5 of the following components having a guarantee of > or = 1 year, and the remaining 4 having a guarantee of < 1 year, then 20 points: diesel motor, generator, spreader, hydraulic components, electrical drives, Gearboxes, Electrical Motors, Hoisting Brakes and PLC
0%	For the following components having a guarantee of < 1 year or less than prescribed above, then 0 points: diesel motor, generator, spreader, hydraulic components, electrical drives, Gearboxes, Electrical Motors, Hoisting Brakes and PLC

Item	Guarantees and Warrantees offered (duration in years)	Description of Guarantee
Structure		

The scoring of the **Guarantee on structure in excess of 10 Years** will be as follows:

Weighting	Scoring Principal
100%	For a guarantee on the structure > or = to 10 years = 100 %
80%	For a guarantee on the structure > or = to 8 years but less than 10 years = 80 %
60%	For a guarantee on the structure > or = to 7 years but less than 8 years = 60%
40%	For a guarantee on the structure > or = to 6 years but less than 7 years = 40 %
20%	For a guarantee on the structure > or = to 5 years but less than 6 years = 20 %
0	For a guarantee on the structure < 5 years = 0 Points

Item	Guarantees and Warrantees offered (duration in years)	Description of Guarantee
Corrosion Protection Guarantee		

The scoring of the **Corrosion Protection compliant with EEAM-Q-008** will be as follows:

Weighting	Scoring Principal
100%	Guarantee > or = 10 years - 100 Points
80%	Guarantee > or = 8 years but < 10 years - 80 Points
60%	Guarantee > or = 6 years but < 8 years - 60 Points
40%	Guarantee > or = 5 years but < 6 years - 40 Points
20%	Guarantee > or = 4 years but < 5 years - 20 Points
0	Guarantee < 4 years - 0 Points

TRANSNET PORT TERMINALS

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Item	Compliant with EEAM-Q-008	Paint thickness
Corrosion Protection Paint Thickness		

The scoring of the **Corrosion Protection compliant with EEAM-Q-008: Paint thickness** will be as follows:

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

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.

TRANSNET PORT TERMINALS

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Signed

Date

Name

Position

Tenderer

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Diesel & Diesel Electric Machines	Total Cost of Ownership	Tender Schedule: T.2.2-33 c
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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
 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")

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

Signed

Date

Name

Position

Tenderer

T.2.2-33 d) Recommended Maintenance Spares MHC

Note to Tenderer:

Tenderers are to complete this schedule with regards to recommended maintenance spares, not included in the 'Mandatory Critical Spares' list and 'Mandatory Maintenance Spares' required for the first year of operation.

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 for the spares to be valid for one year (12 months).

#	Description	Supplier	Locally Avail (Yes/No)	Delivery Lead Time	Price
1					
2					
3					
4					
5					
6					
7					
Etc.	Additional page/s to be added to supply comprehensive list				

Signed

Date

Name

Position

Tenderer

T.2.2-33 e) Recommended Critical Spares MHC

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

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")

All Equipment Categories	Plant and Material Schedules	Tender Schedule: T.2.2-33 f)
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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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Mobile Harbor Cranes (MHC)	Origin of Parts / Components Making up Mobile Harbor Cranes	Tender Schedule: T.2.2-33 g
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Tenderers are to indicate where the different parts and components for the MHC will be fabricated or sourced from for the MHC offered. Parts / components making up the entire Mobile Harbor Crane are to be listed.

<u>Part / Component</u>	<u>Sub-Contractor / Supplier</u>	<u>Country</u>

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Signed

Date

Name

Position

Tenderer

T2.2-33 h : Mandatory Critical Spares

Tenderers are to complete this returnable for the critical spares identified by Employer below, for the crane.

Item #	Description	Supplier	No Required	Cost per unit	Total Cost
1	Engine		2		
2	Intermediate gear box		2		
3	Boom cylinder		2		
4	Boom cylinder bearing and pin		2		
5	Boom cylinder manifold block		2		
6	Engine cooler		2		
7	Sheaves		10		
8	Generator		1		
9	Hose set power pack CPL		2		
10	Electric motor		2		
11	Auxiliary pump		2		
12	Slew gearbox		2		
13	Slewing pump		2		
14	Variable displacement motor		2		
15	V-pump Type 1		2		
16	V-pump Type 2		2		
17	V-pump Type 3		2		
18	V-pump Type 4		2		
19	Oil motor no		2		
20	V-motor		6		
21	Diesel motor		2		
22	Hydraulic pump cooling system		2		
23	Gear pump		2		
24	Oil motor		2		
25	Double V-pump		2		
26	Directional control valve		2		
27	Winch Planetary gear box		2		
28	Wheel set cylinder		10		

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29	Out rigging cylinder		4		
30	Multi-disc brakes Type 1		4		
31	Multi-disc brakes Type 2		4		
32	Hydraulic motor cooling system		3		
33	Engine turbo		4		
34	Engine cylinder head		1		
35	Electric motor		1		
36	Three phase current generator		1		
37	Engine starter		3		
38	Directional control valves		10		
39	Rims and tyres		20		
40	Ropes		8		
41	Can module Type 1		2		
42	Can module Type 2		3		
43	Can module Type 3		3		
44	Can module Type 4		3		
45	Can module Type 5		3		
46	Can module Type 6		3		
47	Can module Type 7		3		
48	Can module Type 8		3		
49	Can module Type 9		3		
50	Can module Type 10		3		
51	Can module Type 11		3		
52	Can module Type 12		3		
53	PLC / Cabin screens		3		

Signed _____

Date _____

Name _____

Position

Tenderer _____

Mandatory Critical Spares

TRANSNET PORT TERMINALS

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Mobile Harbour Crane	Supplier's Specifications	Tender Schedule: T2.2-33 i
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Tenderers are to list in this schedule all specifications applicable to the Mobile Harbour Crane.

Mobile Harbour Crane	Value / Detail	Comments
Make and model of PLC Offered		
Make and model of Electrical plant Offered		
Make and model of Motor drives Offered		
Lifting capacity of MHC offered at 57 meters (m) radius		
Maximum horizontal reach of the Mobile Harbour Crane (m)		
Maximum vertical reach of the vertical of the Mobile Harbour Crane, (m)		
Offered Mobile Harbour Crane maximum loading per wheel (KN)		
Offered Mobile Harbour Crane uniformly distributed load under support pads kPa		
Offered Mobile Harbour Crane number of axles		
Offered Mobile Harbour Crane number of wheels per axle		

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Offered Mobile Harbour Crane center distance between axle on the same rail, (mm)		
The operator cabin is manufactured from 316 stainless. (Yes or No)		
Width of access stairs and walkways		
Material used to manufacture hand railing		
Stair cases, walkways and the boom structure shall be manufactured from galvanized steel and painted (Yes or No)		
<u>Corrosion Protection:</u> Number of Coats of Paint Minimum overall Paint Thickness Guarantee		

Other "Value-add" systems; designs; innovations
1.
2.

Signed _____ Date _____

Name _____ Position _____

Tenderer _____

TRANSNET PORT TERMINALS
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Mobile Harbour Crane	Supplier's Preliminary Design	Tender Schedule: T2.2-33 j
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Tenderers are to list in this schedule all specifications applicable to the Mobile Harbour Crane.

Mobile Harbour Crane	Value / Detail	Comments
Make and model of PLC Offered		
Make and model of Electrical plant Offered		
Make and model of Motor drives Offered		
Lifting capacity of MHC offered at 57 meters (m) radius		
Maximum horizontal reach of the Mobile Harbour Crane (m)		
Maximum vertical reach of the vertical of the Mobile Harbour Crane, (m)		
Offered Mobile Harbour Crane maximum loading per wheel (KN)		
Offered Mobile Harbour Crane uniformly distributed load under support pads kPa		
Offered Mobile Harbour Crane number of axles		
Offered Mobile Harbour Crane number of wheels per axle		

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Offered Mobile Harbour Crane center distance between axle on the same rail, (mm)		
The operator cabin is manufactured from 316 stainless. (Yes or No)		
Width of access stairs and walkways		
Material used to manufacture hand railing		
Stair cases, walkways and the boom structure shall be manufactured from galvanized steel and painted (Yes or No)		
<u>Corrosion Protection:</u> Number of Coats of Paint Minimum overall Paint Thickness Guarantee		

Other "Value-add" systems; designs; innovations
1.
2.

Signed _____

Date _____

Name _____

Position _____

Tenderer _____

TRANSNET PORT TERMINALS

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Mobile Harbour Crane	Compliance to Eligibility Criteria	Tender Schedule: T2.2-33 k
Tenderers are to list in this schedule compliance to the Eligibility Criteria of the Mobile Harbour Cranes		

Parameter for the Mobile Harbour Crane	Comply (Yes/No)
The Mobile Harbour Cranes shall be able to operate with a minimum unrestricted in-service wind speed of 72 km/hr. The MHC shall be able to operate, even if restricted, in a wind speed of up to 90 km/hr.	
The Mobile Harbour Cranes shall have wheel loading of not more than 9 tons per wheel and maximum pressure under the support pad not more than 280 kPa	
The mobile Harbour Cranes shall the lowest point of spreaders 7 containers below and the highest point 6 containers above ship deck	
The Mobile Harbor Crane shall have an outreach of 16 containers across ship deck	
Design compliance to 3.1.1.1 of the Technical Specification TPT-TS-MHC Mobile Harbour Crane-Rev-00-23 Aug 11, latest additions.	
The Mobile Harbour Cranes shall comply with the South African Occupational Health and Safety Act, Act 85 of 1993 as amended.	
The camera system must continually save to the recorder for the 7 day cycle.	

Signed _____

Date _____

Name _____

Position _____

Tenderer _____

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HMCs	Delivery Lead Time	Tender Schedule: T2.2-33 I
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The Tenderer must submit a holistic programme for the delivery of the Mobile Harbour Cranes, showing the duration and location of each major related activity e.g. manufacture, assembly, factory acceptance testing of each complete MHC, 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.

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

Activity	Duration (months)
1. Order placement to shipping date (if applicable)	_____
2. Shipping date to site delivery	_____
3. Site delivery to hand over	_____
4. Total duration Order placement to Handover	_____

The scoring of the Delivery Lead Time will be as follows:

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:

TRANSNET PORT TERMINALS

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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")

Mobile Harbour Crane	Track Record	Tender Schedule: T2.2-33 m
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Tenderers are required to demonstrate their experience in the manufacture, supply, delivery and commissioning of Mobile Harbour Cranes, **over the last three (5) years**, and to this end shall supply a sufficient detailed **comprehensive** reference list with supply details and contact details of the previous customers. Letters of confirmation must be attached to this schedule.

#	Name of Previous Customer	Contact Details	Capacity of MHC at 57m radius	No. of Units	Year
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

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")

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 _____