

RMG

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")

T2.2-34 a: Compliance to Eligibility Criteria

Tenderers are to list in this schedule compliance to the below Eligibility Criteria of the Ship-to-Shore Crane.

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.

Description	Comply Yes/No
Tenderer is an original equipment manufacturer (OEM) of RMG cranes,. (Letter from OEM declaring they will be supplying TPT directly will be required.)	
Design Compliance to F.E.M.	
Minimum SWL of crane is 41 ton, under the spreader.	
Hoist Speed with full load : Minimum 7 m/min	
Trolley Speed with full load : Min 25 m/min	
Crane designed for 11,000 Volt, 3 phase, 50 Hertz power supply	
All motors and drives are AC	
Spreader vertical travel distance (hoisting height) is at least 11m from rail to underneath of spreader	
Centre of spreader will be able to reach within 2,750 mm from either crane rail	
Rail gauge is 22.5 m	

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Minimum In-Service wind Speed of 90 km/hr	
Maximum wheel load does not exceed 40 t / wheel	
Maximum distributed load on rail does not exceed 300 kN/m	
Fleet management system to be provided for the life of the machine. The system to include for remote access able to integrate through open application programming interface (API's) or equivalent into the on-board PLC systems on the Mobile Harbour Crane in order to view machine status, condition, faults, hours etc	
The RMG is supplied with on-board and remote crane management system software for fault diagnostics.	
The RMG is equipped with high speed industrial wireless adapter for SCADA connection.	
Corrosion Protection Guarantee on crane structure: > or = 10 years	
Walkway stringers, staircase stringers, support brackets, kickplates, handrails, knee rails and stanchions to be hot dip galvanised and painted. Stair treads and walkway grating to be hot dip galvanised.	
Number of paint coats including primer: Minimum of 3 coats	
The Rail Mounted Gantry cranes shall comply with the South African Occupational Health and Safety Act, Act 85 of 1993 as amended.	
All access to be staircases and walkways, minimum 700 mm	
The camera system must continually save to the recorder for the 7 day cycle.	

Signed _____

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Rail Mounted Gantry Cranes (RMG)	Origin of Parts / Components Making up Ship to Shore cranes	Tender Schedule: T.2.2-34 b
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Tenderers are to indicate where the different parts and components for the RMG will be fabricated or sourced from for the RMG offered. Parts / components making up the entire Ship to Shore Crane are to be listed.

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

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All Equipment Categories	Plant and Material Schedules	Tender Schedule: T.2.2-34 c
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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

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Rail Mounted Gantry	Priced Spares List	Tender Schedule: T2.2-34 d
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Tenderers are to complete this returnable for the critical spares identified by Employer below, for the Rail Mounted Gantry Crane.

Item #	Description	Supplier	Cost per unit	Total Cost
1	Hoist motor			
2	Hoist gearbox			
3	Hoist input couplings			
4	Hoist output couplings			
5	Spider inserts for couplings			
6	Hoist brake complete			
7	Hoist brake pads			
8	Hoist brake disc			
9	Hoist emergency brake			
10	Hoist emergency brake pads			
11	Hoist emergency brake power pack			
12	Hoist sheaves			
13	Hoist loadcells			
14	Hoist encoder with couplings			
15	Hoist wire ropes (left)			
16	Hoist wire ropes (right)			
17	Hoist motor module			
18	Active line module (ALM)			
19	Active Infeed Module (AIM)			
20	Trolley motor			
21	Trolley gearbox			
22	Trolley coupling with spider inserts			

Returnable Schedule



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23	Trolley brake complete			
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24	Trolley brake pad			
25	Trolley encoder with couplings			
26	Trolley wheel with drive shaft			
27	Trolley motor module			
28	Gantry motor			
29	Gantry gearbox			
30	Gantry coupling with spider inserts			
31	Gantry brake complete			
32	Gantry brake pad			
33	Gantry encoder with couplings			
34	Gantry wheel with drive shaft			
35	Gantry wheel without drive shaft			
36	Rail clamp brake			
37	Rail clamp brake shoe			
38	Gantry motor module			
39	HT cable reel motor			
40	HT cable reel gearbox			
41	HT cable reel clutch and one way bearing			
42	HT couplings with spider inserts			
43	Compact flash cards for drive with license			
44	Compact flash cards for PLC with license			
45	Panel PC			
46	Drives CPU			
47	Expansion module for drive CPU			
48	Encoder input modules			
49	TM31 card			
50	Relays			
51	Contactors			



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52	Timers			
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Date

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T2.2-34 e: Recommended Maintenance Spares RMG

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' list 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					
8					
9					
10					
11					
Etc.	Additional page/s to be added to supply comprehensive list				

Signed

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Rail Mounted Gantry Cranes	Site Establishment Requirements	Tender Schedule: T.2.2-34 f
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Tenderers are to indicate their site establishment requirements for the supply of the Rail Mounted Gantry Cranes , including the following:

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

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Rail Mounted Gantry	Priced Spares List	Tender Schedule: T2.2-34 g
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16	Hoist wire ropes (right)			
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18	Active line module (ALM)			
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23	Trolley brake complete			
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Rail Mounted Gantry Crane	Compliance to Employer's Technical Specification	Tender Schedule: T2.2-34 h
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Note that this schedule is cross-referenced and must be read in conjunction with the Technical Specification TPT_TS_RMG_Twinlift_Rev0_20200917. 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 Functionality		
2.1.1		
2.1.2		
2.1.3		
2.1.4		
2.1.5		
2.1.6		
2.1.7		
2.1.8		
2.1.9		
2.2 Equipment Functionality		
2.2		
2.3 Ergonomics		
2.3.1 Operator's Cab		
2.3.1.1		
2.3.1.2		
2.3.1.3		
2.3.1.4		
2.3.1.5		
2.3.1.6		
2.3.1.7		
2.3.1.8		



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2.3.1.10		
2.3.1.11		
2.3.1.12		
2.3.1.13		
2.3.1.14		
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2.3.3.11		
2.3.4 Operational Aids		
2.3.4.1		
2.3.4.1.1		
2.3.4.1.2		
2.3.4.1.3		
2.3.4.1.4		
2.3.4.1.5		
2.3.4.2		
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2.3.4.2.2		
2.3.4.3		
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2.3.4.5		
2.4 Terminal Specific Requirements		
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3.3 Cross Travel Trolley		
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3.4 Rotating Trolley		
3.4.1		
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3.4.6		
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3.5 Main Hoist		
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3.6 Headblock		
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3.6.7		
3.6.8		
3.6.9		
3.7 Spreader		
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3.8 Other Load Lifting Attachments		
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3.9 Electrical House		
3.9.1		
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3.10 Electrical Power Reticulation		
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3.11 Main Drive Systems		
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3.11.6.1		
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3.12 Gearboxes		
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3.13 Electrical Enclosures and Mounting Panels		
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3.14 Stairs, Walkways, Platforms, Ladders and Anchor Points		
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3.14.4		
3.14.5		
3.14.6		
3.15 Lighting, Heating and Power Points		
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3.16 Local Crane Control System (LCCS)		
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3.17 Computer Systems		
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3.17.2.7		
3.17.3		
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3.18 Corrosion Protection		
3.18.1		



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3.19 Signage and Marking		
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4. Safety and Environment		
4.1 Safety Requirements		
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4.1.2		
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5. Safety and Environment		
5.1 Safety Requirements		
5.1.1		
5.1.2		
5.1.3		
5.1.3.1		
5.1.3.2		
5.1.3.3		
5.1.3.4		
5.1.3.5		
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5.1.6		
5.1.7		
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5.1.9		
5.1.10		
5.1.11. The following minimum safety shall be included		
5.1.11.1 Main Hoist		
5.1.11.1.1		
5.1.11.1.2		
5.1.11.1.3		
5.1.11.1.4		
5.1.11.1.5		
5.1.11.1.6		
5.1.11.1.7		
5.1.11.1.8		
5.1.11.1.9		
5.1.11.2 Gantry		
5.1.11.2.1		
5.1.11.2.2		
5.1.11.2.3		
5.1.11.2.4		
5.1.11.2.5		
5.1.11.2.6		
5.1.11.3 Trolley		
5.1.11.3.1		
5.1.11.3.2		
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5.1.11.4 Rotator		



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5.1.11.4.1		
5.1.11.4.2		
5.1.11.4.3		
5.1.12		
5.2 Environmental Requirements		
5.2.1		
5.2.2		
5.3 Fire Detection and Suppression		
5.3.1		
5.3.2.1		
5.3.2.2		
5.3.2.3		
5.3.3		
5.3.4		
5.3.5		
5.3.6		
5.3.7		
5.3.8		
5.3.9		
5.3.10		
5.3.11		
5.3.12.1		
5.3.12.2		
5.3.12.3		
5.4 Smoke Detection		
5.4.1		
6. Maintenance		
6.1 Lubrication		
6.1.1		
6.1.2		
6.1.3		
6.2 Accessibility		
6.2.1		
7. General		
7.1		
7.2		
7.3		
7.4		
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7.6		



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7.7		
8. Referenced Specifications		
8.1 Standard Specifications		
8.2 Employer Specifications		

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

Score	Compliance to Employer's Technical specifications
0	< 252 compliant clauses = 0 %
20	<269 but >= 252 compliant clauses = 20 %
40	<286 but >=269 compliant clauses = 40 %
60	<303 but >=286 compliant clauses = 60 %
80	<320 but >=303 compliant clauses = 80 %
100	>=336 compliant clauses = 100 %

Signed _____ Name _____ Position _____ Date _____

Tenderer _____

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")

T2.2-34 i: Guarantees and Warranties

Note to tenderers:

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 will play an important role in the evaluation of the tenders, as well as an extended guarantee on the structure in excess of 20 years.

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

Item	Guarantees and Warranties offered	Description of guarantees or warranties
Structure		
Spreader		
Energy chain		
Electrical Drives		
Gearboxes		
Hoist Brakes		
PLC's		
Electrical Motors		
Wire Ropes		

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

Score	Guarantees and Warranties (electrical, mechanical and electronic plant)
100	For all of the following components having a guarantee of > or = 2 years, then 100 %: spreader, energy chain, electrical drives, gearboxes, hoist brakes, PLC's, electric motors and wire ropes
80	For at least 6 of the following components having a guarantee of > or = 2 years, and the remaining 2 having a guarantee of at least > or = 1 year, then 80 %: spreader, energy chain, electrical drives, gearboxes, hoist brakes, PLC's, electric motors and wire ropes
60	For at least 4 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 60 %: spreader, energy chain, electrical drives, gearboxes, hoist brakes, PLC's, electric motors and wire ropes
40	For all of the following components having a guarantee of at least > or = 1 year, then 40 %: spreader, energy chain, electrical drives, gearboxes, hoist brakes, PLC's, electric motors and wire ropes
20	For at least 4 of the following components having a guarantee of > or = 1 year, and the remaining 4 having a guarantee of < 1 year, then 20 %: spreader, energy chain, electrical drives, gearboxes, hoist brakes, PLC's, electric motors and wire ropes

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 (ACQUISITION) 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")

0	For the following components having a guarantee of < 1 year or less than prescribed above, then 0 %: spreader, energy chain, electrical drives, gearboxes, hoist brakes, PLC's, electric motors and wire ropes
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The scoring of the Guarantees and Warranties on the structure will be as follows:

Score	Guarantees and Warranties (Structure)
100	For a guarantee on the structure > or = to 20 years = 100 %
80	For a guarantee on the structure > or = to 18 years but less than 20 years = 80 %
60	For a guarantee on the structure > or = to 15 years but less than 18 years = 60 %
40	For a guarantee on the structure > or = to 12 years but less than 15 years = 40 %
20	For a guarantee on the structure > or = to 10 years but less than 12 years = 20 %
0	For a guarantee on the structure < 10 years = 0 %

Signed _____

Date _____

Name _____

Position _____

Tenderer _____

Rail Mounted Gantry Crane	Site Establishment Requirements	Tender Schedule: T.2.2-34 j
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Tenderers are to indicate their site establishment requirements for the supply of the Rail Mounted Gantry Crane, including the following:

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

Note: The RMG will be erected on the crane rails of the rail terminal, towards the waterside end, adjacent to the stop blocks.

Signed

Date

Name

Position

Tenderer _____



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Rail Mounted Gantry Crane	Supplier's Preliminary Design	Tender Schedule: T2.2-34 k
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Tenderers are to list in this schedule all principle design criteria and design standards applicable to the Rail Mounted Gantry Cranes offered. The safety against drifting (due to wind and inclination) during operation in the limiting service wind shall at least comply with FEM 1.001. The Tenderer must state for each mechanism the class of utilization, spectrum class and group classification on which the proposed design will be based and supply a full motivation if this differs from those specified.

Parameter for Rail Mounted Gantry Crane	Value / Detail	Design Criteria and/or Applicable Standard	Comments
Classification of the structure (group classification, state of loading, class of utilization)			
Classification of the following mechanisms (group classification, state of loading, class of utilization): • Hoisting • Trolley • Gantry long travel • Rotation (trolley slewing)			
Speeds of the following motions: • Hoisting / lowering (full load) • Hoisting / lowering (no load) • Trolley cross travel (full load) • Trolley cross travel (no load) • Gantry long travel (full Load) • Rotation (slew) with full load			



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Angle (degrees) to which a suspended container can be trimmed			
Range of rotation (slewing) of trolley - degrees			
Hoisting Capability (SWL) for crane – under spreader (ton)			
Length across uncompressed buffers, measured along rails (m)			
Overall (outside) width of crane, measured across the rails (m)			
Acknowledge crane need only operate between the crane rails (Yes / No)			
Rail gauge (m)			
Hook approach (distance from spreader centerline to rails) – for both rails			
Acknowledge crane rail width (crown) is 100 mm (Yes / No)			
Acknowledge crane rails are level, and no difference in rail levels (Yes/No)			
Spreader vertical travel distance – rail level to underneath of spreader (m)			
Total number of long travel wheels			
Total number of long travel wheels driven and braked			
Total mass of RMG Crane (ton)			
Maximum in-service load per wheel (ton)			



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Maximum out-of-service load per wheel (ton)			
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TRANSNET PORT TERMINALS

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Maximum load distribution on rail			
Wheel spacing, in same bogie (m)			
Wheel spacing, between bogies (m)			
Wheel diameter (mm)			
Type of wheel			
Confirm trailing cable reel off-set shall be 1400 mm to the north (outside) of northern rail			
Confirm the trailing cable is interchangeable with the trailing cables on the ship to shore cranes (Yes / No)			
Confirm the output voltage from the main transformer is 400 Volt (Yes / No)			
Confirm the storm pins shall be 350 mm off-set to the inside of both crane rails			
Maximum in-service wind speed (km/hr)			
Minimum in-service stability factor			
Maximum out-of-service stability factor without anchoring devices			
Load eccentricity between left and right side hoist wire ropes (as a percentage of total load lifted), before crane trips out on eccentricity			
Cabin Dust & Noise Mitigation			
Width of access way (stairs and walkways) from floor level to operator's cabin			



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Height of long travel buffers above rail (m)			
Acknowledge RMG's total travel distance is 770 m (Yes / No)			
Tenderers to confirm that all motors and drives are AC (Yes/No)			
Confirm that with the trolley slew and travel in the parked position, the driver's cabin shall face the northern rail			
Confirm twin lift spreaders are compatible with existing twin lift spreaders at DCT (Yes/No)			
Confirm the checkers cabin shall be situated under the southern sill beam			
<u>Corrosion Protection:</u> Number of Coats of Paint Minimum overall Paint Thickness			
Other "Value-add" systems; designs; innovations			
1.			
2.			
3.			

Signed _____

Date _____

Name _____

Position _____



TRANSNET PORT TERMINALS

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Tenderer _____

T2.2-34 I: Evaluation Schedule: Track Record

Note to tenderers:

Tenderers as an original equipment manufacturer (OEM) of RMG cranes, are required to demonstrate their experience in the design, manufacture, delivery, erection, testing and commissioning of RMG cranes with a capacity of at least 40 tons under the spreader, over the last 10 years, and to this end shall supply a sufficient detailed reference list with RMG Crane's details and contact details of existing customers. TPT will contact references to confirm track record.

#	Name of Previous Customer	Contact Details	Capacity (ton)	No. of Units	Year
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

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

The scoring of the Track Record will be as follows:

Score	Track Record
100	> or = 40 units score 100 %
80	> or = 30 but < 40 units score 80 %
60	> or = 20 but < 30 units score 60 %
40	> or = 10 but < 20 units score 40 %
20	> or = 5 but < 10 units score 20 %
0	< 5 units score 0 %

Signed _____

Date _____

Name _____

Position _____

Tenderer _____

Rail Mounted Gantry Crane	Compliance to Employer's Technical Specification	Tender Schedule: T2.2-34 m
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Note that this schedule is cross-referenced and must be read in conjunction with the Technical Specification TPT_TS_RMG_Twinlift_Rev0_20200917. 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 Functionality		
2.1.1		
2.1.2		
2.1.3		
2.1.4		
2.1.5		
2.1.6		
2.1.7		
2.1.8		
2.1.9		
2.2 Equipment Functionality		
2.2		
2.3 Ergonomics		
2.3.1 Operator's Cab		
2.3.1.1		
2.3.1.2		
2.3.1.3		
2.3.1.4		
2.3.1.5		
2.3.1.6		
2.3.1.7		



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 (ACQUISITION) 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")

2.3.1.8		
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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")

2.3.1.9		
2.3.1.10		
2.3.1.11		
2.3.1.12		
2.3.1.13		
2.3.1.14		
2.3.1.15		
2.3.1.16		
2.3.1.17		
2.3.1.18		
2.3.1.19		
2.3.1.20		
2.3.1.21		
2.3.1.22		
2.3.1.23		
2.3.1.24		
2.3.1.25		
2.3.1.26		
2.3.1.27		
2.3.1.28		
2.3.1.29		
2.3.1.30		
2.3.1.31		
2.3.2 Checker's Cabin		
2.3.2.1		
2.3.2.2		
2.3.2.3		
2.3.2.4		
2.3.2.5		
2.3.3 Operator's Controls		
2.3.3.1		
2.3.3.2		
2.3.3.3		
2.3.3.4		
2.3.3.5		
2.3.3.6		
2.3.3.7		
2.3.3.8		
2.3.3.9		



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")

2.3.3.10		
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2.3.3.11		
2.3.4 Operational Aids		
2.3.4.1		
2.3.4.1.1		
2.3.4.1.2		
2.3.4.1.3		
2.3.4.1.4		
2.3.4.1.5		
2.3.4.2		
2.3.4.2.1		
2.3.4.2.2		
2.3.4.3		
2.3.4.4		
2.3.4.5		
2.4 Terminal Specific Requirements		
2.4.1		
3. Technical Requirements		
3.1 Design Requirements		
3.1.1.1		
3.1.1.2		
3.1.1.3		
3.1.1.4		
3.1.1.5		
3.1.1.6		
3.1.1.7		
3.1.1.8		
3.1.1.9		
3.1.1.10		
3.1.1.11		
3.2 Gantry Structure and Travel Assemblies		
3.2.1		
3.2.2		
3.2.3		
3.2.4		
3.2.5		
3.2.6		
3.2.7		
3.2.8		
3.2.9		



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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 (ACQUISITION) 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")

3.2.10		
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TRANSNET PORT TERMINALS

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3.2.11		
3.2.12		
3.2.13		
3.2.14		
3.2.15		
3.2.16		
3.2.17		
3.2.18		
3.2.19		
3.2.20		
3.2.21		
3.2.22		
3.2.23		
3.2.24		
3.2.25		
3.2.26		
3.2.27		
3.2.28		
3.2.29		
3.2.30		
3.2.31		
3.2.32		
3.2.33		
3.2.34		
3.3 Cross Travel Trolley		
3.3.1		
3.3.2		
3.3.3		
3.3.4		
3.3.5		
3.3.6		
3.3.7		
3.3.8		
3.3.9		
3.3.10		
3.3.11		
3.3.12		
3.3.13		
3.3.14		



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")

3.3.15		
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3.3.16		
3.3.17		
3.3.18		
3.3.19		
3.3.20		
3.4 Rotating Trolley		
3.4.1		
3.4.2		
3.4.3		
3.4.4		
3.4.5		
3.4.6		
3.4.7		
3.4.8		
3.4.9		
3.5 Main Hoist		
3.5.1		
3.5.2		
3.5.3		
3.5.4		
3.5.5		
3.5.6		
3.5.7		
3.6 Headblock		
3.6.1		
3.6.2		
3.6.3		
3.6.4		
3.6.5		
3.6.6		
3.6.7		
3.6.8		
3.6.9		
3.7 Spreader		
3.7.1		
3.7.2		
3.7.3		
3.7.4		
3.7.5		



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 (ACQUISITION) 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")

3.7.6		
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3.7.7		
3.7.8		
3.8 Other Load Lifting Attachments		
3.8.1		
3.8.2		
3.8.3		
3.8.4		
3.9 Electrical House		
3.9.1		
3.9.2		
3.9.3		
3.9.4		
3.9.5		
3.9.6		
3.9.7		
3.9.8		
3.10 Electrical Power Reticulation		
3.10.1		
3.10.2		
3.10.3		
3.10.4		
3.10.5		
3.10.6		
3.10.7		
3.10.8		
3.10.9		
3.10.10		
3.10.11		
3.10.12		
3.10.13.1		
3.10.13.2		
3.10.13.3		
3.10.13.4		
3.10.13.5		
3.10.13.6		
3.10.13.7		
3.10.13.8		
3.10.14		
3.10.15		



TRANSNET PORT TERMINALS

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3.10.16		
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3.10.17		
3.10.18		
3.11 Main Drive Systems		
3.11.1		
3.11.2		
3.11.3		
3.11.4		
3.11.5		
3.11.6.1		
3.11.6.2		
3.11.7		
3.11.8		
3.11.9		
3.11.10		
3.11.11		
3.11.12		
3.12 Gearboxes		
3.12.1		
3.12.2		
3.12.3		
3.12.4		
3.12.5		
3.13 Electrical Enclosures and Mounting Panels		
3.13.1		
3.13.2		
3.13.3		
3.13.4		
3.13.5		
3.13.6		
3.14 Stairs, Walkways, Platforms, Ladders and Anchor Points		
3.14.1		
3.14.2		
3.14.3		
3.14.4		
3.14.5		
3.14.6		
3.15 Lighting, Heating and Power Points		
3.15.1		
3.15.2		



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 (ACQUISITION) 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")

3.15.3		
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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")

3.15.4		
3.15.5		
3.15.6.1		
3.15.6.2		
3.15.6.3		
3.15.6.4		
3.15.7		
3.16 Local Crane Control System (LCCS)		
3.16.1		
3.16.2		
3.16.3		
3.16.4		
3.16.5		
3.16.6		
3.16.7		
3.16.8		
3.16.9		
3.16.10		
3.16.11		
3.17 Computer Systems		
3.17.1		
3.17.1.1		
3.17.1.2		
3.17.1.3		
3.17.1.4		
3.17.1.5		
3.17.1.6		
3.17.1.7		
3.17.2		
3.17.2.1		
3.17.2.2		
3.17.2.3		
3.17.2.4		
3.17.2.5		
3.17.2.6		
3.17.2.7		
3.17.3		
3.17.4		
3.18 Corrosion Protection		



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 (ACQUISITION) 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")

3.18.1		
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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")

3.18.2		
3.18.3		
3.18.4		
3.18.5		
3.18.6		
3.18.7		
3.18.8		
3.19 Signage and Marking		
3.19.1		
3.19.2		
3.19.3		
3.19.4		
3.19.5		
3.19.6		
3.19.7		
3.19.8		
3.19.9		
4. Safety and Environment		
4.1 Safety Requirements		
4.1.1		
4.1.2		
4.1.2.1		
4.1.2.2		
4.1.2.3		
4.1.2.4		
4.1.2.5		
4.1.2.6		
4.1.2.7		
4.1.2.8		
4.1.2.9		
4.1.2.10		
4.1.2.11		
4.1.2.12		
4.1.2.13		
4.1.2.14		
4.1.2.15		
4.1.2.16		
4.1.2.17		
4.1.2.18		



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4.1.2.19		
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5. Safety and Environment		
5.1 Safety Requirements		
5.1.1		
5.1.2		
5.1.3		
5.1.3.1		
5.1.3.2		
5.1.3.3		
5.1.3.4		
5.1.3.5		
5.1.4		
5.1.5		
5.1.6		
5.1.7		
5.1.8		
5.1.9		
5.1.10		
5.1.11. The following minimum safety shall be included		
5.1.11.1 Main Hoist		
5.1.11.1.1		
5.1.11.1.2		
5.1.11.1.3		
5.1.11.1.4		
5.1.11.1.5		
5.1.11.1.6		
5.1.11.1.7		
5.1.11.1.8		
5.1.11.1.9		
5.1.11.2 Gantry		
5.1.11.2.1		
5.1.11.2.2		
5.1.11.2.3		
5.1.11.2.4		
5.1.11.2.5		
5.1.11.2.6		
5.1.11.3 Trolley		
5.1.11.3.1		
5.1.11.3.2		
5.1.11.3.3		



TRANSNET PORT TERMINALS

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5.1.11.4 Rotator

5.1.11.4.1		
5.1.11.4.2		
5.1.11.4.3		
5.1.12		
5.2 Environmental Requirements		
5.2.1		
5.2.2		
5.3 Fire Detection and Suppression		
5.3.1		
5.3.2.1		
5.3.2.2		
5.3.2.3		
5.3.3		
5.3.4		
5.3.5		
5.3.6		
5.3.7		
5.3.8		
5.3.9		
5.3.10		
5.3.11		
5.3.12.1		
5.3.12.2		
5.3.12.3		
5.4 Smoke Detection		
5.4.1		
6. Maintenance		
6.1 Lubrication		
6.1.1		
6.1.2		
6.1.3		
6.2 Accessibility		
6.2.1		
7. General		
7.1		
7.2		
7.3		
7.4		
7.5		



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7.6		
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TRANSNET PORT TERMINALS

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7.7		
8. Referenced Specifications		
8.1 Standard Specifications		
8.2 Employer Specifications		

Signed _____ Name _____ Position _____ Date _____

Tenderer _____

T2.2-34 n: Delivery Lead Time

Note to tenderers:

The Tenderer must submit a holistic programme for the delivery of the Rail Mounted Gantry Crane, showing the duration and location of each major related activity e.g. assembly of modules and/or the complete RMG, testing of each module and/or the complete RMG, disassembly (if applicable), cold commissioning, shipping of parts / modules or complete RMG , site erection stages (if applicable), final testing, commissioning, training, endurance test and handover. (Tenderers are reminded that handover is inclusive of operator training and technical training.)

Note: A period of **six weeks** must be allowed for in the schedule for the third party design review

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 completion of designs	_____
2. Order placement to Cold Commissioning	_____
3. Order placement to Hot Commissioning, Endurance test and Handover	_____

Note: The Delivery Lead Time to be evaluated will be the Delivery Lead Time from order placement to completion of Hot Commissioning, Endurance test and Handover.

The scoring of the Delivery Lead Time from order placement to completion of Hot Commissioning, Endurance test and Handover will be as follows:

Score	Delivery Lead Time
100	< or = 12 months = 100 %
80	> 12 months & < or = 13 months = 80 %
60	> 13 months & < or = 14 months = 60 %
40	> 14 months & < or = 15 months = 40 %
20	> 15 months & < or = 16 months = 20 %
0	> 20 months = 0 %

Signed _____

Date _____



TRANSNET PORT TERMINALS

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Name _____

Position _____

Tenderer _____

T2.2-34 o: Compliance to Eligibility Criteria

Tenderers are to list in this schedule compliance to the below Eligibility Criteria of the Ship-to-Shore Crane.

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.

Description	Comply Yes/No
Tenderer is an original equipment manufacturer (OEM) of RMG cranes,. (Letter from OEM declaring they will be supplying TPT directly will be required.)	
Tenderer has signed a collaboration agreement with Transnet Engineering (Signed agreement to be supplied with the tender)	
Design Compliance to F.E.M.	
Minimum SWL of crane is 41 ton, under the spreader.	
Hoist Speed with full load : Minimum 7 m/min	
Trolley Speed with full load : Min 25 m/min	
Crane designed for 11,000 Volt, 3 phase, 50 Hertz power supply	
All motors and drives are AC	
Spreader vertical travel distance (hoisting height) is at least 11m from rail to underneath of spreader	
Centre of spreader will be able to reach within 2,750 mm from either crane rail	

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")



Rail gauge is 22.5 m	
Minimum In-Service wind Speed of 90 km/hr	
Maximum wheel load does not exceed 40 t / wheel	
Maximum distributed load on rail does not exceed 300 kN/m	
Fleet management system to be provided for the life of the machine. The system to include for remote access able to integrate through open application programming interface (API's) or equivalent into the on-board PLC systems on the Mobile Harbour Crane in order to view machine status, condition, faults, hours etc	
The RMG is supplied with on-board and remote crane management system software for fault diagnostics.	
The RMG is equipped with high speed industrial wireless adapter for SCADA connection.	
Corrosion Protection Guarantee on crane structure: > or = 10 years	
Walkway stringers, staircase stringers, support brackets, kickplates, handrails, knee rails and stanchions to be hot dip galvanised and painted. Stair treads and walkway grating to be hot dip galvanised.	
Number of paint coats including primer: Minimum of 3 coats	
The Rail Mounted Gantry cranes shall comply with the South African Occupational Health and Safety Act, Act 85 of 1993 as amended.	
All access to be staircases and walkways, minimum 700 mm	
The camera system must continually save to the recorder for the 7 day cycle.	

Signed _____

Date _____

Name _____

Position _____



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Tenderer _____



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Rail Mounted Gantry Crane	Recommended Critical Spares	Tender Schedule: T2.2-34 p
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Note to Tenderer:

Tenderers are to complete this schedule with regards to recommended critical spares required to support the Rail Mounted Gantry for the first 5 years of operation, excluding the 'Mandatory Critical Spares' and 'Recommended 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					
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10					
11					
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Signed

Date

Name

Position

Tenderer

STS, RMG Cranes	Total Cost of Ownership	Tender Schedule: T.2.2-34 q
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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 (A,B,C,D,E)							
Service intervals (Operating Hours)							
Hours required for service at the different intervals							
Consumables for the different services (to be identified and priced)							
List each item							
Total for Consumables							
Electricity Consumption							
Average expected consumption assuming	KwHr						
Mid-life refurbishment details							
(Assuming 100 000 cycles per year, give period when this should be performed)							
List each item							
Total for mid-life refurbishment							
Hours required for mid-life refurbishment							
Design life in cycles for equipment	Cycles						

Total							
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In order for TPT justify such an important investment (STS and RTG and RMG purchase), among other factors of design, it is requested that the cranes will be able to work at least 2 million cycles, which would be equivalent to 100,000 movements per year for twenty years.

With this estimated duration return on investment, the argument is that the cost of acquisition is not sufficient as a tool to be able to assess the investment, but it will be advisable to have recourse to analysis of the costs throughout its life cycle (LCC - Life Cycle Cost). It is prudent that an analysis is carried on LCC calculation for a container crane in order to facilitate the decision-making in the process of buying container cranes.

The LCC of an STS/RMG/RTG is the sum of all costs that supports the equipment from its conception and manufacture throughout its operation until the end of its useful life. Thus, the LCC of a physical asset begins with the purchase and ends when it is removed from service. LCC seeks the optimization of the cost of the acquisition, possession and operation of physical assets throughout their useful lives by identifying and quantifying all of the significant costs that are involved in the course of its useful life, using the technique of net present value, allowing an optimum selection of the active to acquire: TPT is seeking the optimization of each of the factors in order to minimize the total cost.

In a general mode, the total costs can be divided into:

$LCC = \text{acquisition cost} + \text{Cost of Ownership} + \text{cost of disposal}$

1. To define the Cost of ownership

- Energy Consumption Cost. Cost of energy consumption of operation.
(ECC)
- Preventive Maintenance Cost. Cost of preventive maintenance.
(PMC)
- RRC: Repair and refurbishment cost. Cost of repairs, modifications and upgrades.
(RRC)
- IHC: Inventory Holding Cost. Cost of storage due to the stock of spare parts.
(IHC)
- ODC: Opportunity Cost of Downtime. Opportunity cost because the team is out of service.
(ODC)

Hoist	Trolley	Long Travel	Luffing
1. Motors	9. Motors	15. Motors	19. Motors
2. Gearboxes (reducers)	10. Gearboxes (Reducers)	16. Gearboxes (Reducers)	20. Gearboxes (Reducers)
3. Brakes	11. Brakes	17. Brakes	21. Brakes
4. Drum	12. Cables	18. Wheels	22. Boom Latch
5. Couplings	13. Aux trolley		23. Cables
6. Cables			24. Straps
7. Sheaves			
8. Trim/list/Skew			

2. Maintainable items on the Ship to Shore Crane

Electrical System	Operators cabin and lower cabin	Control Systems Drives/ PLC/ Software	Structure
25. Cable and Cable reel	32. Controls	34. Motors	38. Paint / Corrosion protection
26. Energy Chain	33. Seat	35. Drives	39. Access
27. Spreader cable system		36. PLC's and other control systems	40. Elevator
28. Switch		37. IT systems	41. Portal Structure
29. Lighting working			42. Long Travel
30. Lighting other			43. Boom and latches
31. Air conditioning			

Tables above define the maintainable items of the STS.

3. Energy Consumption Calculation (ECC)

The calculation to be performed of the energy consumption of the crane in function of each of the subgroups of the breakdown of elements, taking into account the components in each of the systems, their efficiency ratings, mechanical performance of the subcomponents and the cycles of work means that submits a load.

A container crane consumes energy in five major groups:

- Hoist system
- Trolley system
- Luffing System

- Long Travel Gantry system
- Auxiliaries

The estimations for the total cycle show an average length of about 120 seconds that can be subdivided into elements of cycle that are listed below:

- Load Lifting: 25s
- With load travel landside: 20s (5s + 10s accelerating to $v=cte$ + 5s decelerating)
- Lowering of the load to the ground / trailer: 25s
- Twist locks, tie it to the truck and other operations on the ground: 10s
- Lift without load: 10s
- Travel toward boat : 20s (5s + 10s accelerating to $v=cte$ + 5s decelerating)
- Lowering the spreader without load: 10s

These are estimation only and must be tailored to OEM's machine.

Regeneration is not considered at this stage.

4. Preventative Maintenance Cost (PCC)

This calculation needs to be based on the total hours per year of preventive maintenance on the crane. The hours need to be interpreted from the maintenance schedules and adequately represented for each of the 43 maintainable elements and into each sub-sections of the crane.

The assessment of hours spent using a cost-time average of the maintenance personnel (rate per hour to be defines) as well as the supplies needed to carry out preventive maintenance tasks. These supplies should include lubricants, greases, oils, light bulbs, fuses and, in general, spare parts/components of a minor nature which need to to be applied in each maintenance cycle. OEM to show the cost of preventive maintenance for the first year by breakdown product valuation by counting the hours and the consumables.

Maintainable Items							
Hoist	Trolley	Long Travel	Luffing	Electrical Systems	Operators Cabin and Lower Cabin	Control Systems Drives/ PLC/ Software	Structure
R/Euro/Dollar	R/Euro/Dollar	R/Euro/Dollar	R/Euro/Dollar	R/Euro/Dollar	R/Euro/Dollar	R/Euro/Dollar	R/Euro/Dollar

5. Repair and refurbishment cost (RRC)

The calculation of the maintenance costs take into account the management strategy of the crane over the 20 year period. It is necessary to carry out a series of repairs/modifications of certain components of the crane over the design life, in intervals of 5 years.

The number of cycles and the age of the crane requires the replace certain components for reasons of safety, reliability and productivity. It is assumed that spending will fluctuate between 15 and 30% of the purchase price of the crane and is distributed on different groups whose components have a useful life less than that of the crane or that decrease their benefits from a point to consider this action can reduce the failure rate components to prevent a profile curve known as the bathtub. The following table shows the evolution of the costs of repairs/modifications that need to be considered.

Year	R/Euro/Dollar	Year	R/Euro/Dollar	Year	R/Euro/Dollar	Year	R/Euro/Dollar
1-5		6-10		11-15		16-20	

These costs are to be determined from history of breakdowns, planned component replacement in terms of their individual design life (cycles and years) and environmental conditions. To be included in this calculation or elements of modernisation and obsolescence.

Maintainable Items								
	Hoist	Trolley	Long Travel	Luffing	Electrical Systems	Operators Cabin and Lower Cabin	Control Systems Drives/ PLC/ Software	Structure
Year	R/Euro/Dollar	R/Euro/Dollar	R/Euro/Dollar	R/Euro/Dollar	R/Euro/Dollar	R/Euro/Dollar	R/Euro/Dollar	R/Euro/Dollar
1-5								
6-10								
11-16								
16-20								

6. Inventory Holding costs (IHC)

The cost due to the storage of spare parts that meet the needs of the corrective maintenance is to be estimated according to the historical data consulted in the different operators of terminals to which the OEM has maintained relationships with the Port Operator.

It must be considered that the components of the cost of storage

- Cost of warehouse and management
- Financial costs of the stock.
- Costs of insurance.

- Cost of Logistics

The parts have been considered constant course in cycles of 5 years, with a growth over the life of the crane. The evolution / growth of the inventory costs needs to be extrapolated for the 20 year period.

Year	R/Euro/Dollar	Year	R/Euro/Dollar	Year	R/Euro/Dollar	Year	R/Euro/Dollar
1-5		6-10		11-15		16-20	

7. Opportunity Cost of Downtime

Each stop of crane represents a loss of business. If the crane is not operational, the vessel that has to be discharged or loaded, TPT will need to wait for the crane to be back in operation. The agreements between shipping lines and the terminals require that the operation is done immediately after the arrival of the vessel, and if this process is delayed, additional costs are incurred for the logistics chain.

In many cases, the lack of reliability of the cranes and continuous vessel waiting times may lead to the shipping line deciding on diverting to an alternate port, the amount of business loss that this implies also needs to be considered.

The time in which the crane is not operational is intimately linked with the failure rate of components, previously requested in the calculation of the RRC.

For the calculation of the cost of opportunity due to the STS being out of service these specific items are to be considered:

Cost required to put again the crane in operation.

Sunk costs due to lost productivity from employees who operate the crane.

There are other costs such as the loss of the company's image, or the direct loss of customers, that cannot be incorporated into this model by it being intangible and difficult to estimate.

Calculation required for the purposes of the Tender

- **Energy Consumption Cost (Design)**
- **Preventative Maintenance Cost (Reliability Centered Maintenance and Maintenance Schedules)**
- **Repair and Refurbishment Cost (Reliability Centered Maintenance and Historical Costs from other Port Operators)**

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Signed

Date

Name

Position

Tenderer

RS

Reach Stackers (RS)	Mandatory Critical Spares List	Tender Schedule: T2.2-35 a
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Tenderers are to complete this returnable for the critical spares identified by Employer below, for the **RS**

Tenderers are reminded that as per the Works Information clause **1.2.1.18**, the spares listed below are required.

#	Description	Supplier	No Required	Cost per unit	Total Cost
1	Steering cylinder		1		
2	Side shift cylinder		1		
3	Tilting cylinder		1		
4	Twistlock cylinder		4		
5	Slew gear hydraulic motor		1		
6	Main hydraulic pump		1		
7	Spreader telescopic chain		2		
8	Joystick		2		
9	Boom energy chain		1		
10	Wiper motor front		1		
11	Wiper motor top		1		
12	Starter motor		1		
13	Alternator		1		
14	Engine complete		1		
15	Gearbox complete		1		
16	Air filter		4		
17	Engine oil filter		4		
18	Fuel filter		4		
19	Hydraulic oil filter		4		
20	Dashboard display unit		1		

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21	Reverse camera		1		
22	Reverse camera screen		1		
23	Operator seat		1		
24	Accelerator pedal unit		1		
25	Brake pedal unit		1		
26	King pin		2		

Signed _____

Date _____

Name _____

Position _____

Tenderer _____

Reach-Stacker (RS)	Origin of Parts / Components Making up Reach-stacker	Tender Schedule: T2.2 – 35 b
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Tenderers are to indicate where the different parts and components for the RS will be fabricated or sourced from for the RS offered. Parts / components making up the entire Reach-stacker 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

All Equipment Categories	Plant and Material Schedules	Tender Schedule: T2.2-35 c
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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 _____

Recommended Critical Spares RS

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' (T2.2-35 a).

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					
7					
8					
9					
10					
11					
Etc.	Additional page/s to be added to supply comprehensive list				

Signed

Date

Name

Position



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Tenderer

Recommended Maintenance Spares RS

T2.2 – 35 e

Note to Tenderer:

Tenderers are to complete this schedule with regards to recommended maintenance spares, not included in the 'Mandatory Critical Spares' list (T2.2-35a) and 'Mandatory Maintenance Spares' list 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					
8					
9					
10					
11					
Etc.	Additional page/s to be added to supply comprehensive list				

Signed

Date

Name

Position



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Tenderer

Reach Stackers	Compliance to Eligibility Criteria	Tender Schedule: T2.2-35 f
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Tenderers are to list in this schedule compliance to the Eligibility Criteria for Reach Stackers.

#	Parameters for Reach Stackers	Comply (Yes/No)
1.	Tenderer is an original equipment manufacturer (OEM) of Reach Stackers. (Letter from OEM declaring they will be supplying TPT directly will be required.)	
2.	Compliance to EUROMOT II emissions standard as a minimum.	
3.	Travel speed of machine, with rated load = or > 25 km/hour.	
4.	Lifting speed of machine, with 67% of rated load = or > 230m mm/sec.	
5.	Lifting speed of machine, with empty spreader = or > 400 mm/sec.	
6.	Safe lifting capacity of RS is 15 ton at the third row, 6400mm from front of tyre.	
7.	RS can stack 9 ft 6" high containers 5 high.	
8.	The RS shall be fitted with a telescopic spreader, able to handle 40 ft and 20 ft ISO standard containers.	
9.	The spreader side shift shall be at least 600 mm to either side of centre.	
10.	A load moment device is fitted to prevent machine operating outside its safe or stable platform.	

Signed _____ Date _____

Name _____ Position _____

Tenderer _____