

REQUEST FOR PROPOSAL

FOR THE REPLACEMENT
OF TROLLEY RAILS
AND SUPPORT PLATES

AT MALTA FREEPORT
TERMINALS LTD.

For QC02
And optional:
QC05, QC06, QC08

Malta Freeport Terminals Ltd.

Contents

1. Presentation	3
2. Main Crane Specifications.....	3
3. Scope of Works, technical descriptions	4
3.1 Mechanical Scope of Works.....	4
3.1.1 Trolley Rail Cleaning and Measurement.....	4
3.1.2 Trolley Rail Lifting with Supporting Structure to Allow for Soleplate Inspection	5
3.1.3 SOLE PLATE – Scope of works options.....	5
3.1.3.1 OPTION A1: SOLE PLATE REPAIR	5
3.1.3.2 OPTION B1: REPLACE SOLE PLATE (complete length or Partial)	5
3.1.4 TROLLEY RAIL Grinding or Replacement.....	6
3.1.4.1 OPTION A2: GRINDING OF TROLLEY RAIL	6
3.1.4.2 OPTION B2: REPLACEMENT OF TROLLEY RAIL	6
3.1.5 Access for Lifting Materials and Equipment.....	6
3.2 Project Expectations	7
4. Design Considerations	7
4.1 Safety	7
4.2 European Standards and FEM Classifications	7
4.3 Warranties	7
5. Documentation	8
6. Contract Price	8
7. Payment Terms.....	8
8. Tender Process.....	9
8.1 Site Visit.....	9
8.2 Clarifications / Questions	9
8.3 Time Frame:	9
8.4 Contents of the Bids.....	10
8.5 Evaluation Criteria	11
Appendix 1: Detailed Price Table	12
Appendix 2: Provided Spare Parts.....	13

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1. Presentation

Malta Freeport Terminals Ltd (MFTL) is launching a tender for the replacement of the trolley rails and its support plates on one to four terminal quay cranes manufactured by OMG, selected among a batch of 8 cranes delivered between 1997 and 2000.

The bidder is requested to quote for the different type of options mentioned below:

OPTIONS:

1. to carry out the replacement of the base plate and rails on QC02 only
2. to carry out the replacement of the base plate and rails on QC02 and carry out work on one QC only from 05, 06 or 08, base plates and rails according to findings.
3. to carry out the replacement of the base plate and rails on QC02 and carry out work on two QCs from 05,06 or 08 base plates and rails according to findings.
4. to carry out the replacement of the base plate and rails on QC02, and carry out work on all 3 QCs 05, 06 and 08 base plates and rails according to findings.

The Tender documentation is composed of the following documents:

- This Request for Proposal
- Available Crane Documentation

2. Main Crane Specifications

Max Hoist Capacity (T)		Hoist Height above Rail (m)	Rail Span (m)	Outreach from Seaside Rail (m)	Back Reach from Landside Rail (m)	Clearance between Legs (m)
Hook mode	Twinlift Mode					
45	40.5	34.5	30	54	15	18.3

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3. Scope of Works, technical descriptions

The refurbishment will include the following scope of works, which have to be fine tuned by the bidder according to his site visit:

3.1 Mechanical Scope of Works

3.1.1 Trolley Rail Cleaning and Measurement

- a) Install scaffolding and other means for the project to be detailed by the Bidder.
- b) Measurement of the Rail of its major dimensions at intervals defined in the sheet included in the corresponding template (to be requested with the project Documentation, see chapter 5.) – Trolley Rails – Rail Inspections On site.

An excel file plus pdf copies for Left and Right Side Rail included.

The trolley rail must be cleaned and inspected to check for any cracks. NDT practitioner shall be utilised by Bidder when checking for cracks. Visual and MPI or Dye Penetrant to be applied on all weld joints.

Bidder shall be expected to submit this report and Technical recommendation for Grinding of the Rails or else Rail replacement within 1 week of commencement of job on QC. MFTL would then review and revert with decision.

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3.1.2 Trolley Rail Lifting with Supporting Structure to Allow for Soleplate Inspection

From the reports and the site inspection, Contractor is requested to propose their solution for:

- a) Lifting of both existing trolley rails to allow removal of rubber pad across whole length approximately 120mtr per side;
- b) Cleaning of the sole plate underneath the rubber pad. Bidder is expected to submit a detailed report to MFT following one week of commencement of cleaning of the general condition of the soleplate and to recommend whether to go for continuation of the cleaning process and repair via carpet welding etc. the resulting areas with material reduction or else go for partial or full sole plate replacement. A joint inspection between MFT and Bidder would also be carried out.

In the event of a decision to replace the soleplate then to refer to Option B1

3.1.3 SOLE PLATE – Scope of works options

3.1.3.1 OPTION A1: SOLE PLATE REPAIR

- a) Treating any paint affected areas with St 3 Mechanical Preparation.
Carpet weld any deteriorated area;
Full paint system application on affected areas;
- b) Replace of any damaged bottom base clips (provide options for 50 or 100% replacement) with galvanized type for rail clips as provided by Gantrail;

3.1.3.2 OPTION B1: REPLACE SOLE PLATE (complete length or Partial)

- a) Remove damaged plate
Install new plate
Full paint system application on affected areas;
- b) Install new bottom galvanized base clips as provided by Gantrail in the same position as they were on the old plate

This option shall be quoted to cover 50% and 100% of the whole length on both sides.

For both case of Options A1 and B1, prior to any welding, detailed inspection shall be carried out by NDT practitioner to confirm correct weld preparation and no presence of cracks in case of carpet welding. NDT practitioner would then inspect welds 24 hours after completion of welds.

Appendix – Paintwork includes a sample paint repair specification applicable for St3 Mechanical Preparation.

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3.1.4 TROLLEY RAIL Grinding or Replacement

Based on the outcome of the decision as described in Section 3.1.2, Grinding or Replacement of the Trolley Rails shall be carried out.

3.1.4.1 OPTION A2: GRINDING OF TROLLEY RAIL

- a) Install new Rubber pad.

Put the rail in place and install the top clips and torque

The trolley rail must be grinded from the top and both sides in order to reinstate original head profile, excluding the consumed height or replace the complete rail or part of it. Bidder to detail in submission the method to be adopted for rail grinding. It shall be expected that Bidder would utilise a mechanised system rather than a hand-held Grinder solution.

- b) Replace Trolley Boogey wheel and side thruster.
- c) Replace of Auxiliary Boogey wheels and auxiliary side thrusters
- d) Align Trolley without load and with Test weight as necessary.

3.1.4.2 OPTION B2: REPLACEMENT OF TROLLEY RAIL

- a) Rail shall be welded across the whole rail head at every joint in accordance with Included Rail Repair Procedure with drawing no. 12460-3104. All welds shall be checked by NDT practitioner 24 hrs hours after completion of welding

New rail pad installed and rail clips uppers tightened up following rail alignment.

- b) Replace Trolley Boogey wheel and side thruster.
- c) Replace of Auxiliary Boogey wheels and auxiliary side thrusters
- d) Align Trolley without load and with Test weight as necessary.

3.1.5 Access for Lifting Materials and Equipment

The cranes are all installed with a 6.3T rated Service Hoist inside the Machinery House. Appendix - Machinery House includes the relevant details.

The service hoist would be available during the extent of the project.

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3.2 Project Expectations

- Commissioning, testing and handover on site
- Provision of safety instructions manual, operator's manual, maintenance manual and suppliers' technical documents
- All the parts from both cranes which are not reused have to be kept, cleaned and made ready for service again. MFTL could need them as spare for the other cranes.

4. Design Considerations

4.1 Safety

As per current crane specifications

4.2 European Standards and FEM Classifications

As per current crane specifications

4.3 Warranties

Full warranty against deficiencies or defects in material, parts or workmanship under normal use and service of the Quay Cranes for up to 24 months from acceptance.

All costs for the correction of deficiencies or defects identified within this warranty period to be borne entirely by the bidder.

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5. Documentation

The following documentation is available upon request:

- Crane specification
- Mechanical Drawings
- Trolley Rail Measurements

Additional technical documentation can be provided to bidders upon request.

Bidders are encouraged to carry out a detailed inspection on site prior to submission of their offer, as in the event of award of the Tender any requests for payment variations due to mismatch between the provided drawings and the as built condition shall not be considered.

6. Contract Price

The contract prices shall include the following:

- All mobilisation costs including Accommodation, transport, etc. costs
- A soft copy and a hard copy of all reports.
- Drawings and all documents in original format

The Prices provided must remain valid for a period of 12 months after signature of the contract. Options / prices can be triggered during any time of this 12 months period.

7. Payment Terms

- First Instalment

Down payment - 15% of total contract price to be paid within 7 days upon receipt of original invoice

- Intermediate Instalment

According to relevant milestones to be proposed by the Contractor.

- Last Instalment

20% of total contract price upon Delivery, Commissioning and Endurance test of the Equipment.

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8. Tender Process

8.1 Site Visit

A site visit is mandatory for bidders.

Contacts to organise the visit are the following:

Ivan Curmi, Quentin Layet, Clayton Sultana
engineering.managers@maltafreeport.com.mt
clayton.sultana@maltafreeport.com.mt
00 356 2225 2302
00 356 2225 2424

8.2 Clarifications / Questions

All requests for clarifications must be sent by email at:
engineering.managers@maltafreeport.com.mt
clayton.sultana@maltafreeport.com.mt

MFTL will do its best to answer in the shortest delay.

8.3 Time Frame:

- Site visits have to take place before detailed crane documentation will be made available for bidders during this visit.
- The Bids must be received by MFTL, Purchasing Department **before the 10th of December** at the latest and must be sent by mail to:
purchasing.manager@maltafreeport.com.mt

Any offer received after the closing date may be rejected.

- Shortlisted bidders will be sent the final contract conditions and will be called for a presentation of their offer to MFTL.

Refurbishment Work on the first crane shall start in March 2022

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8.4 Contents of the Bids

- The organization the bidder will set in place to realize the project (on site and remotely)

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When Submitting Bids the following Data must be submitted:

- Presentation of the bidder
- List and presentation of its subcontractors
- Experience and references of the bidder in quay cranes refurbishment projects
- A copy of the Company welding procedures and welders certificate must be provided
- A detailed schedule, including the time schedule (Gantt type), to accomplish the job. A resource plan must be also included to support the time frame schedule.
- A technical proposal detailing all technical choices and components proposed by the bidder with justification. Adding to this a detailed Quality Plan indicating the criteria and processes that will ensure and verify that data meet the specific requirement. This Quality Plan will also include details of welder's qualifications, Welding Procedures etc.
- Before commencing of the job the contractor must confirm if the welders carrying out the job are the same mentioned in the tender submission. If for any reason the welders are replaced the contractors must supply the same qualified welders, and submit a copy of the new welders certificate to MFT. If for any reason the welders are not qualified for the job the selected contractor will be revoked and a penalty will be incurred.
- Contractor must submit certification of equipment used on site
- Any hanging equipment assembled to carry out the job must be certified by a structure engineer according to the Health and Safety Law.
- All contractors employee must be equipped with safety harness.
- All employees must carry out MFT induction course before commencing of job.
- A Project Manager/Team Leader must be assigned during the complete project and the person assigned must be reachable during project execution.
- A signed copy of the tender's Technical Specifications
- A Financial Offer including the Detailed Price table which is attached to the tender in an excel file.

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8.5 Evaluation Criteria

The offers will be evaluated according to the following criteria:

- Financial Offer
- Technical Proposal
- Time frame to realize the work

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Appendix 1: Detailed Price Table

Refer to Excel sheet: *EBP21-005_Detailed Price Table*

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Appendix 2: Provided Spare Parts

	MFT Code	QC 02	+ 1 QC	+ 2 QC	+ 3 QC
Base Plates		1 set	2 sets	3 sets	4 sets
Rails		1 set	2 sets	3 sets	4 sets
Rubber		1 set	2 sets	3 sets	4 sets
Clips		1 set	2 sets	3 sets	4 sets
Bases		1 set	2 sets	3 sets	4 sets
Trolley Boogey Wheels	QC20104	4	8	12	16
Trolley Side Thrusters	QC20045	4	8	12	16
Auxiliary Boogey Wheels	QC20017	8	16	32	40
Auxiliary Side Thrusters	QC20054	8	16	32	40