

INVITATION TO TENDER

Mechanical Installation of Process Cooling Water System

Project: Process Cooling Water Upgrade

Tender Reference: MCW-001

Client: Recycled Plastics UK Ltd

Site Address: Freeman street, Heathtown, Wolverhampton, WV10 0ES

Tender Return Date: 31st July 2026

1. Scope of Works

The Contractor shall provide all labour, supervision, plant, consumables and materials required to complete the mechanical installation of a new process cooling water system.

The works include the installation of new stainless-steel pipework, valves, strainers, pumps, buffer tank (optional), insulation and all associated mechanical components required to deliver a complete operational installation.

The Contractor shall visit site before submitting a quotation to familiarise themselves with the existing installation and verify dimensions.

2. Pipework Specification

Unless otherwise stated, all new pipework shall be:

- 154mm stainless steel pipework
- Welded and flanged construction
- Stainless steel backing rings
- Mild steel backing flanges suitably coated for weather protection
- Complete with all necessary supports and brackets
- Drain points
- Air vents
- Isolation valves
- Flexible EPDM bellows where specified
- Fully pressure tested on completion

3. Mechanical Scope

Section 1 – Chiller to Tank

Supply and install:

- New 154mm stainless steel welded and flanged pipework
- Coated backing flanges
- 5" EPDM flexible bellows at chiller outlet
- Fixed Orifice Double Regulating Valve (DRV)
- All drains, vents and binders
- Pipe supports and brackets
- Connection into existing 4" galvanised pipework if existing tank is retained

Section 2 – Tank via Pump to Chiller

Supply and install:

- New 154mm stainless steel welded and flanged pipework
- New inline strainer prior to pump
- 5" EPDM bellows
- Drains and vents
- Pipe supports
- Connection to existing 4" galvanised pipework if required

Contractor shall note:

Head Office: Freeman Street, Wolverhampton, West Midlands, England, WV10 0ES

T: +44 (0) 1902 458 111

E: info@recycledplasticsuk.com

Registered in England and Wales Company Registration No 06645314

VAT Registration No GB 938246694

EORI number: GB938246694000

Existing pump plinth will require extension by others to accommodate the new strainer.

Section 3 – Process Supply Header

Supply and install:

- New stainless steel process header
- Isolation valves
- Seven (7) branch connections to existing client pipework
- Connection to existing galvanised services
- Drains
- Air vents
- Pipe supports
- Flexible bellows

Section 4 – Process Return Header

Supply and install:

- New stainless steel return header
- Drop connection to free cooler
- New 4" butterfly valves
- Seven (7) return connections into existing client pipework
- Two (2) 6" fully lugged actuated butterfly valves
- Fail-safe actuators
- Voltage to be confirmed by Contractor
- All supports
- Drains
- Air vents

Tenderers shall identify any additional access requirements.

Section 5 – Free Cooler Return

Supply and install:

- New 154mm stainless steel welded pipework
- New 4" butterfly valves
- Drains
- Pipe supports

4. Optional New Buffer Tank

Tenderers shall provide a separate price for supplying and installing a new buffer tank.

Minimum specification:

- Capacity approximately 5,184 litres
- Three (3) 6" flanged connections
- One spare flange connection
- 25mm encapsulated strengthening board
- Clear PVC sight glass
- Removable lid
- Manway access
- Central weir arrangement

5. Pumps

Provide separate prices for:

Recirculation Pump

- 22kW
 - Duty approximately 111.8 m³/hr
 - Head approximately 3.4 bar
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Process Pump

- 37kW
- Duty approximately 114.7 m³/hr
- Head approximately 6.9 bar

Equivalent manufacturers may be offered.

6. Insulation

Supply and install insulation to all external pipework including existing exposed pipework.

Specification:

- 25mm HVAC Rockwool insulation
 - Aluminium foil faced
 - 0.8mm PIB weatherproof cladding
 - Removable insulated valve jackets
 - Removable insulated flange covers
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7. Testing

Contractor shall include:

- Pressure testing
 - Leak testing
 - Flushing of new pipework
 - Test certificates
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8. Contractor Responsibilities

The Contractor shall include:

- Labour
 - Supervision
 - Welding
 - Consumables
 - Pipe supports
 - Fixings
 - Small plant
 - Delivery
 - Waste removal arising from their own works
 - Protection of existing equipment
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9. Client Responsibilities (Excluded)

The quotation shall exclude the following unless separately identified:

- VAT
 - Main electrical installation
 - Power supplies
 - Control wiring
 - Building works
 - Concrete works
 - Structural calculations
 - Crane hire
 - MEWP / Cherry Picker hire
 - Glycol (MEG)
 - Commissioning
 - Disposal of redundant plant unless identified
 - Shipping from equipment suppliers unless specifically included
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10. Existing Tank

Tenderers shall note that if the existing tank is retained, existing 4" galvanised pipework penetrates the tank walls.

The Contractor shall identify any risks associated with making these connections.

The Client reserves the right to instruct installation of a new tank should the Contractor deem the existing tank unsuitable.

11. Quotation Schedule

Tenderers shall provide separate prices for the following:

Item	Price (£)
Section 1 – Chiller to Tank	
Section 2 – Tank to Chiller	
Section 3 – Process Supply	
Section 4 – Process Return	
Section 5 – Free Cooler Return	
Optional New Buffer Tank	
Recirculation Pump	
Process Pump	
Pipework Insulation	
Total Tender Price	

12. Programme

Tenderers shall state:

- Lead time
- Installation duration
- Number of operatives
- Commissioning duration
- Earliest available start date

13. Information Required with Tender

Tenderers shall provide:

- Company details
- Public Liability Insurance
- Employers Liability Insurance
- Relevant references
- Proposed equipment manufacturers
- Any exclusions
- Any assumptions made
- Warranty period
- Payment terms
- Validity of quotation

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