



Reg. No. 2022/469069/30  
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## Project Overview

This scope covers the supply, installation, replacement, and commissioning of potable water systems for the Mobile Office and Jetty Kitchen facilities at the Jetty. The works include installation of RO systems, new UPVC pipeline installation, and full replacement of the rusted safety shower water supply line.

## Main Water Supply Pipeline Installation

- Install new potable water pipeline from Caisson 17 (Main Gate) to Caisson 21 (Kitchen Building).
- Approximate pipeline length: 227 metres.
- Pipe diameter: 50 mm UPVC, minimum PN12.5 (or PN16 if required for supply pressure).
- Pipe installation method: surface mounted on supports/pipe route on the ground
- Supply and install all required elbows, tees, reducers (if required), couplings, valves, and supports.
- Install three (3) taps along the 227 m route.
- Pressure test the pipeline at 1.5 × working pressure for no leaks.
- Flush the system prior to commissioning.

## Safety Shower Water Supply Replacement

### Scope of Rectification

The existing water supply pipe to the safety shower is rusted and requires full replacement.

### Installation Details

- Replace the rusted water supply pipe with new 50 mm UPVC pipe and fittings, minimum PN12.5.
- Caisson width between Caisson 18 and 19: approximately 7 metres.
- Additional pipe length extending approximately 10 metres beyond the end of the caisson to the shower and water connection.

- Total approximate replacement length: 17 metres.
- Secure and support pipework appropriately.
- Co-join the pipe points using couplers or threaded adaptors for easy replacement should the need arise
- Ensure adequate flow rate and pressure to comply with operational safety shower requirements.
- Conduct pressure and operational testing upon completion.

## RO Dispenser Installation

### Equipment Supply and Installation

- Supply and install one (1) Fountain Unit with integrated RO system.
- Supply and install one (1) 5-Stage Reverse Osmosis (RO) system without pump.
- Install necessary piping and fittings to serve the RO unit and access to running water.
- Install three (3) draw-off taps along the pipeline route.
- Flush, test, and commission the RO system to ensure proper functionality.

Note: A drain line is not required as the installation consists of an RO dispenser system.

### Sundries and Ancillary Works

- Supply and install all UPVC pipes, fittings, and supports but not limited to that.
- Provide pipe supports, clamps, jointing materials, isolation valves, and accessories.
- Conduct flushing and pressure testing of all installed pipelines.
- Maintain good housekeeping and remove installation debris upon completion.

### Testing and Commissioning

- Pressure testing of the 227 m main supply line at 1.5 × working pressure.
- Pressure and flow testing of the safety shower line.
- Functional testing of RO systems and taps.
- Final inspection and handover upon satisfactory completion.
- Provide maintenance plan documentation of the systems

### Technical Requirements

- Proven experience in potable water pipeline installation and plumbing works.
- Experience in installation and commissioning of Reverse Osmosis (RO) water systems
- All costs to be included in quotation

**SITE VISIT IS COMPULSORY**

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