

Annexure C3.2:

1. Scope of work

The scope of work to refurbishment of Outlet, Upwash and Air scour butterfly valves at Zuikerbosch Water Treatment Plant Station 4 Filter House.

1. Refurbish 12 x Butterfly valves – Filter Outlet

Valve specification:

Valve size 400mm

Working Pressure 300 kPa

Blade and seal test pressure 1200 kPa

Body test pressure 1500 kPa

2. Refurbish 12 x Butterfly valve – Filter Air Scour

Valve specification:

Valve size: 250mm

Working Pressure: 1000 kPa

Blade and test pressure: 1500 kPa

Body test pressure: 1500 kPa

3. Refurbish 6 x Butterfly valves -Up Wash

Valve specification:

Valve size: 700mm

Working Pressure: 250 kPa

Blade and seal test pressure: 1200 kPa

Body test pressure: 1500 kPa

4. Replace 6 x pneumatic actuators – Up wash valves.

Supply new pneumatic valves.

Pneumatic Actuator – RC280 DA F16-46



5. Replace 12 x pneumatic actuators – Air scour valves

Supply new pneumatic valves (double acting)

**Scope of work specification:**

Rand Water representative to visit the area before work commence after the letter of award.

The successful supplier to submit quality control plan (QCP) and schedule plan before task execution for approval.

Valve collection and delivery

Supplier to collect valve at Zuikerbosch Water Treatment Plant and transport into their workshop.

After stripping valves Rand Water representative to be informed to inspect spares and valve condition.

Submit failure report for every valve and Pressure test certificate.

Supplier to deliver valves on site and be accountable if the valve doesn't function according to standard after installation.

Refurbishment of Valves:

Repair valves body, seating, blades, and shaft

Replace blade seals, drive pins, gland seals and bearing bush.

Install aluminium name plate with pressure rating, size, and flow direction arrow.

Valves to be neatly painted with the original paint colour.

Valves to be pressure tested, ensure its properly sealing and open & close easy.

Pressure test certificate to be submitted.

Outlet valve Rand Water to provide electric actuator for testing purposes.

Rand Water representative must be invited to witness the pressure test for all the butterfly valves.

Annexure C4: Site Information

Site Briefing: 19.06.2025 @ 09:00

RAND WATER ZUIKERBOSCH – we meet at Risk Control Parking Area

Vischagat Road, Three Rivers East

Vereeniging, 1939

GPS Coordinates: S 26° 41.520 and E 28° 00.061

Working Hours Mon-Thurs – 07:00-16:00

Fri – 07:00-14:00

THE IMPORTANCE OF WEARING PPE

Everyone accessing the plant will be expected to wear safety shoes, failure to which no access will be granted.

THE IMPORTANCE OF CARRYING YOUR DRIVER'S LICENSE

Everyone accessing the site using personal or company vehicles is requested to always carry their valid driver's license.

VALID CAR DISCS ARE ESSENTIAL

Every company or personal vehicle accessing the site must have a valid car disc. The biometric system will scan and cross-reference these discs to ensure compliance with local regulations. Failure to have a valid car disc may result in the vehicle being refused entry.

DATA SECURITY

The site complies with the principle of Personal Access to Information Act (PAIA) and as such all data collected will be treated with the utmost confidentiality and used solely for security and access control purposes.