# Tynes Bay Waste to Energy Facility:

# Sea Water Screening System Technical Specifications

The Respondent shall be responsible for the supply, installation and delivery of a fully functional sea water screening system which meets the below technical specifications.

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| **Metric** | **Specification** |
| Screening System Type | Travelling Band Screen |
| Water Being Screened | Sea Water |
| Maximum Flow Rate per Travelling Screen | 2000 m3 per hour |
| Number of screens | 2 |
| Deck Level | +2.5m |
| High Water Level | 0.86m |
| Low Water Level ahead of screens | 0.67m |
| Power Supply | 240V AC 60Hz |
| Channel Depth | 6.25m |
| Channel Width | 2.0m |
| Type of Screen | Central / Dual Flow |
| Operation Type | Continuous (level controlled), Manual (operator controlled) |
| Exposed Metal Material  | Super Duplex Stainless Steel (Material Certificates must be provided) |
| Ambient Temperature Range | Min: 15°C, Max 40°C |
| Ambient Humidity Range | 70-90% |
| Special Considerations | Limited wind protection, thus equipment will be exposed to significant salt spray |
| Exposed Metal Material | Super Duplex Stainless Steel |

The screening system and ancillaries shall be purchased as a unit from the selected supplier. Any components / equipment required to support installation and commissioning of the screening system (cable, cable trays, etc.) shall meet the material requirements specified in this contract and material disclosures requirements.

Any deviations to the requirements listed above must be disclosed to the Buyer and agreed prior to purchase and delivery.