# Project Report: TTTT

## Project Details

Name: TTTT

Client Name: t

Capacity: t

### 1. Container

### Sec01: General Data

|  |  |
| --- | --- |
| Field | Value |
| Manufacturer | Factory |
| Quantity | 1 |

### Sec02: Design Data

|  |  |
| --- | --- |
| Field | Value |
| Capacity | 2 m3 |
| Thicknesses | 6mm |
| No. of Wheel | 4 |
| Automatic safety lock | Yes |

### Sec03: Material Data

|  |  |
| --- | --- |
| Field | Value |
| Frame | Epoxy Coated |
| Bolts & Nuts | Galvanized steel |
| Wheel | Steel with rubber |

### 2. Gritremoval

### Sec01: General Data

|  |  |
| --- | --- |
| Field | Value |
| Manufacturer | Factory |
| Quantity | One bridge serve two channel |
| Function | Waste water |
| Installation location | Rectangle tank |
| Installation country | Egypt |
| Installation (indoor, outdoor) | outdoor |
| Continuous operation | yes |
| No. Of hours a day | 24/24 h |

### Sec02: Design Data

|  |  |
| --- | --- |
| Field | Value |
| Total tank width | 600 mm |
| Total tank length | 7500 mm |
| Water depth | 600 mm |
| Length of the bridge | 2000 mm |
| Width of bridge | 1000 mm |
| Qty of driving wheels / bridge | 2 |
| Qty of free wheels / bridge | 2 |
| Qty of drive gearbox / bridge | 1 |
| Admissible load on bridge / tank | 500 kg / m2 |
| Max. Allowable deflection / tank | 1/500 |

### Sec03: Walkway, Handrail, Wheel Data

|  |  |
| --- | --- |
| Field | Value |
| Walkway type | Grating |
| Handrail Type | tubular |
| Handrail Height | 1000 mm |
| Wheel Diameter | 300 mm |
| Wheel Width | 90 mm |
| Wheel rail | square bar 40x40mm |

### Sec04: Scrapper Data

|  |  |
| --- | --- |
| Field | Value |
| Grease scrapper Thickness | 6 mm |
| Height of the scrapper | 300 mm |
| Fixation of sludge scrapper | by pipe suspenders |
| Rubber wearing strips cross section | 12x100 mm |
| Scum ramp thickness | 6mm |

### Sec05: Gearmotor Data

|  |  |
| --- | --- |
| Field | Value |
| Gearbox Qty | 1 |
| Gearbox Trade mark | SEW |
| Model | SA57/T |
| Electric Motor Trade Mark | SEW |
| Rated Power | 0.37 kW |
| Supply Voltage | 380 V, 3 Phases, 50 Hz |
| Insulation | Class F |
| Temp Rise | Class B |
| Ingress Protection | IP65 |

### Sec06: Scrapper Data

|  |  |
| --- | --- |
| Field | Value |
| Sand Scrapper Thickness | 6 mm |
| Height of the scrapper | 300 mm |
| Fixation of sludge scrapper | by pipe suspenders |
| Rubber wearing strips cross section | 12x100 mm |

### Sec07: Drive unit

|  |  |
| --- | --- |
| Field | Value |
| Drive Unit Gearbox Qty | 1 |
| Drive Unit Trade Mark | SEW |
| Drive Unit Model | SA77/T |
| Electric Motor Trade Mark | SEW |
| Electric Motor Rated Power | 0.18 kW |
| Insulation | Class F |
| Temp Rise | Class B |
| Ingress Protection | IP65 |

### Sec08: Control panel Data

|  |  |
| --- | --- |
| Field | Value |
| Local control panel | Electrostatic painting |
| Panel thicknesses | 2 mm |
| Component | Schneider |
| Operation | Manual / Automatic timer switch |

### Sec09: Material Data

|  |  |
| --- | --- |
| Field | Value |
| Material of Bridge | Hot deep galvanized steel |
| Scum ramp | AISI 304 |
| Grease Scraper | AISI 304 |
| Sludge Scraper | AISI 304 |
| Bolts and nuts | AISI 304 (A2) |
| Open mesh floor | GRP or Hot deep galvanized steel |
| Wheel | Carbon steel |
| Wheel Shaft | Carbon steel |

### 3. Primary Sedimentation

### Sec01: Section 1

|  |  |
| --- | --- |
| Field | Value |
| Manufacturer | Factory |
| Quantity | 2 |
| Installation location | Circle tank |
| Installation country | Egypt |
| Installation (indoor, outdoor) | outdoor |
| Continuous operation | yes |
| No. Of hours a day | 24/24 h |

### Sec02: Section 2

|  |  |
| --- | --- |
| Field | Value |
| Total Tank Diameter | 11700 mm |
| Water Depth | 3500 mm |
| Type | Half Bridge |
| Length of the bridge | 7000 mm |
| Width of the bridge | 1000 mm |
| Qty of driving wheels / bridge | 2 |
| Qty of free wheels / bridge | 2 |
| Qty of drive gearbox / bridge | 1 |
| Admissible load on bridge / tank | 500 kg / m2 |
| Max. Allowable deflection / tank | 1/500 |

### Sec03: Section 3

|  |  |
| --- | --- |
| Field | Value |
| Slip ring Trafe Mark | Ravioli or equal |
| Slip ring No. of ring | Minimum 6 ring |
| Slip ring Ingress Protection | IP 55 |

### Sec04: Section 4

|  |  |
| --- | --- |
| Field | Value |
| Hand rail type | tubular |
| Height | 1000 mm |
| Walkway type | Grating |
| Width | 800 mm |
| Scum box Qty | 1 |
| Scum box Width | 900 mm |
| Scum box thickness | 4 mm |
| Diameter of exit pipe | DN 150 mm |

### Sec05: Section 5

|  |  |
| --- | --- |
| Field | Value |
| Scum box Scraper Thickness | 6 mm |
| Height of the Scraper | 300 mm |
| Fixation of scum scraper | by pipe suspenders |
| Sludge Scraper Thickness | 6 mm |
| Height of the Scraper | 300 mm |
| Fixation of scum scraper | by pipe suspenders |
| Rubber wearing strips cross section | 13x100mm |

### Sec06: Section 6

|  |  |
| --- | --- |
| Field | Value |
| Overflow weir Type | V-Notch (adjestable slot) |
| Slots | 12(W) x 50 (H) mm |
| Thickness | 4 mm |
| Height | 200 mm |
| Type | Baffle plate |
| Thickness | 4mm |
| Height | 300 mm |

### Sec07: Section 7

|  |  |
| --- | --- |
| Field | Value |
| Local control panel | Electrostatic painting |
| Panel Thickness | 2 mm |
| Component | Schneider |
| Operation | Manual / Automatic timer switch |

### Sec08: Section 8

|  |  |
| --- | --- |
| Field | Value |
| Gearbox Trade Mark | SEW |
| Model | SA77/T |
| Electric Motor Trade Mark | SEW |
| Rated Power | 0.18 kW |
| Supply Voltage | 380 V, 3 Phases, 50 Hz |
| Insulation | Class F |
| Temp Rise | Class B |
| Ingress Protection | IP66 |

### Sec09: Section 9

|  |  |
| --- | --- |
| Field | Value |
| Material of Bridge | Hot deep galvanized steel |
| Material of Scum scraper | AISI 316 |
| Material of Sludge scraper | AISI 316 |
| Material of Overflow weir | AISI 316 |
| Material of Bolts and nuts | AISI 316 (A4) |
| Material of Open mesh floor | GRP or Hot deep galvanized steel |
| Wheel | Polyurethane |
| Wheel shaft | Carbon steel |

### 4. Manual Screen

### Sec01: General Data

|  |  |
| --- | --- |
| Field | Value |
| Manufacturer | Factory |
| Quantity | 1 |
| Operation | Manual |

### Sec02: Design Data

|  |  |
| --- | --- |
| Field | Value |
| Flow | 0.11 m3/s |
| Width | 570 mm |
| Length | 2000 mm |
| Hand rake | No. 2 |
| Space between bar | 25 mm |
| Bar Type | Rectangular |
| Bar section | 10x30 mm |
| Inclination | 45 Deg |

### Sec03: Material Data

|  |  |
| --- | --- |
| Field | Value |
| Frame | AISI 316 |
| Rake | AISI 316 |
| Bar screen | AISI 316 |

### Sec04: Channel Data

|  |  |
| --- | --- |
| Field | Value |
| Channel Width | 600 mm |
| Depth | 1180 mm |