# Project Report: EEE

## Project Details

Name: EEE

Client Name: E

Capacity: E

### 1. Belt Conveyor

### Sec01: General Data

|  |  |
| --- | --- |
| Field | Value |
| Manufacturer | Winkel |
| Quantity | 1 |

### Sec02: Design Data

|  |  |
| --- | --- |
| Field | Value |
| Width | 800 |
| Length | 2000 |

### Sec03: Gearbox Data

|  |  |
| --- | --- |
| Field | Value |
| Trade Mark | SEW |
| Model | SA57T |

### Sec04: Motor Data

|  |  |
| --- | --- |
| Field | Value |
| 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 |

### Sec05: Material Data

|  |  |
| --- | --- |
| Field | Value |
| Frame | Hot deep galvanized steel |
| Roller | Hot deep galvanized steel |
| Bolts & Nuts | AISI 304 (A2) |
| Conveyor | Rubber 10 mm (3Ply cotton/nylon) |

### 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 |