



Z.C.E

شركة الزهراء
للمقاولات الهندسية
والتوريدات

EIZAHRAA FOR ENGINEERING CONTRACTING AND Supplying

Project Report: MMMM

Project Details

Name: MMMM

Client Name: m

Capacity: m



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1. Gritremoval



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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 / m ² |
| Max. Allowable deflection / tank | 1/500 |

Sec03: Walkway, Handrail, Wheel Data

| Field | Value |
|--------------|---------|
| Walkway type | Grating |



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| | |
|-----------------|--------------------|
| 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 |
|-------|-------|
|-------|-------|



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|-------------------------------------|--------------------|
| Sand Scraper Thickness | 6 mm |
| Height of the scraper | 300 mm |
| Fixation of sludge scraper | 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 |



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| | |
|-----------------|----------------------------------|
| 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 |