



# Z.C.E

شركة الزهراء  
للمقاولات الهندسية  
والتوريدات

*EIZAHRAA FOR ENGINEERING CONTRACTING AND Supplying*

## Project Report: TTTT

### Project Details

Name: TTTT

Client Name: t

Capacity: t



# Z.C.E

شركة الزهراء  
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## 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



# Z.C.E

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شركة الزهراء  
للمقاولات الهندسية  
والتوريدات

## 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 / m <sup>2</sup>
Max. Allowable deflection / tank	1/500

### Sec03: Walkway, Handrail, Wheel Data



# Z.C.E

شركة الزهراء  
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والتوريدات

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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



# Z.C.E

شركة الزهراء  
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والتوريدات

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## 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
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# Z.C.E

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والتوريدات

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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



# Z.C.E

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شركة الزهراء  
للمقاولات الهندسية  
والتوريدات

## 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 / m <sup>2</sup>
Max. Allowable deflection / tank	1/500

### Sec03: Section 3

Field	Value
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# Z.C.E

شركة الزهراء  
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والتوريدات

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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 (adjustable slot)





# Z.C.E

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للمقاولات الهندسية  
والتوريدات

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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



# Z.C.E

شركة الزهراء  
للمقاولات الهندسية  
والتوريدات

*EIZAHRAA FOR ENGINEERING CONTRACTING AND Supplying*

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



# Z.C.E

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شركة الزهراء  
للمقاولات الهندسية  
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## 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



# Z.C.E

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والتوريدات

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Depth	1180 mm
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