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شركة الزهراء
للمقاولات الهندسية
والتوريدات

EIZAHRAA FOR ENGINEERING CONTRACTING AND Supplying

Project Report: TTTT

Project Details

Project Name:

TTTT

Client Name:

t

Capacity:

t



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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



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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 ²
Max. Allowable deflection / tank	1/500

Sec03: Walkway, Handrail, Wheel Data



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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



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شركة الزهراء
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والتوريدات

EIZAHRAA FOR ENGINEERING CONTRACTING AND Supplying

Sec06: Scraper Data

Field	Value
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
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Z.C.E

شركة الزهراء
للمقاولات الهندسية
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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
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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
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شركة الزهراء
للمقاولات الهندسية
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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

شركة الزهراء
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



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للمقاولات الهندسية
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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



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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



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Depth

1180 mm