

شركة الزهراء للمقاولات الهندسية والتوريدات

EIZAHRAA FOR ENGINEERING CONTRACTING AND Supplying

Project Name:

Testing

Client Name:

Τ

Capacity:

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EIZAHRAA FOR ENGINEERING CONTRACTING AND Supplying

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



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Frame Hot deep galvanized steel

Roller Hot deep galvanized steel

Bolts & Nuts AISI 304 (A2)

Conveyor Rubber 10 mm (3Ply cotton/nylon)



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2. Basket screens



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3. Quick Valve

Sec01:

Field	Value
Manufacturer	Factory
Quantity	1
Operation	Manual

Sec02:

Field	Value
Diameter	DN 200 mm
Main Shaft	Stem
Stem nut	Bronze
Material of Body	DCI



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4. Thickener

Sec01:

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:

Field	Value
Total Tank Diameter	6000 mm
Water Depth	3500 mm
Bridge Type	Concrete

Sec03:

Field	Value
Sludge Scraper Thickness	6 mm
Height of the Scraper	270 mm
Rubber wearing strips cross section	8x100mm
Back up plate	AISI 316 (4mm)

Sec04:

Field	Value
No. Of Central shaft	1



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Central shaft Pipe schedule 40

Feeding cylinder 4 mm

Cutting arms Fabrication Angle 50x50

Bottom bearing type Fixing pipe with artlon

Overflow weir Type V-Notch (adjestable slot)

Slots 12(W) x 50 (H) mm

Thickness 4 mm

Height 200 mm

Sec05:

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

Sec06:

Field	Value
Gearbox Trade Mark	SEW
Model	SA77/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	IP66

Sec07:



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Field	Value
Material of Bridge	Concrete
Material of Central shaft	AISI 316
Material of Feeding cylinder	AISI 316
Material of Sludge scraper	AISI 316
Material of Ovverflow Weir	AISI 316
Material of Bolts and nuts	AISI 316 (A4)



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5. Telescopic Valve

Sec01:

Field	Value
Manufacturer	Factory
Quantity	1
Operation	Manual rising stem

Sec02:

Field	Value
Diameter	DN 200 mm
Material of Body	AISI 316
Material of Main shaft	AISI 316
Material of Stem nut	Bronze
Gasket	EPDM
Pillar	ST-37



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6. Channel Penstocks



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7. 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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8. Circular Tanks



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9. 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



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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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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



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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



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10. Wall Penstocks



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11. Rectangular Tanks



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12. Screw Conveyor



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13. Sand Silo

Sec01:

Field	Value
Manufacturer	Factory
Quantity	1

Sec02:

Field	Value
Capacity	5 m3
Inlet	Pipe 150 mm PN10
Outlet	Pipe 150 mm PN10

Sec03:

Field	Value
Shell	Epoxy coated steel 37
Cone	Epoxy coated steel 37
Nozzle	Epoxy coated steel 37



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14. Rectangular Mixers



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15. Test Machine



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16. 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



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17. Primary Sedimentation Tank

Sec01:

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:

Field	Value
Total Tank Diameter	11700 mm
Water Depth	3500 mm
Туре	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:



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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:

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:

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:

Field	Value
Overflow weir Type	V-Notch (adjestable slot)



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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:

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

Sec08:

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:

Field	Value
Material of Bridge	Hot deep galvanized steel



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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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18. Mechanical Screen

Sec01: General Data

Field	Value	
Manufacturer	Factory	
Quantity	1	

Sec02: Design Data

Field	Value
Туре	Multi tack
Flow	0.11 m3/sec
No. of Rake	3
Width	580 mm
Length	3000 mm
Dead plate	4 mm
Space between bars	25 mm
Bar Type	Rectangular
Bar section	10x20 mm
Inclination	75 Deg

Sec03: Gearmotor Data

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



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Insulation Class F
Temp Rise Class B
Ingress Protection IP65

Sec04: Control panel Data

Field	Value
Local control panel	Electrostatic painting
Panel thicknesses	2 mm
Protection	IP 54
Component	Schneider
Operation	Manual / Automatic timer switch

Sec05: Material Data

Field	Value
Material of Frame & Guide	AISI 316
Dead plate	AISI 316
Rake	AISI 316
Bar screen	AISI 316
Sprocket	AISI 316
Motorize shaft	AISI 316
Bolts & Nuts	AISI 316 (A4)

Sec06: Other Data

Field	Value
Channel Width	600 mm
Channel Depth	1180 mm