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EIZAHRAA FOR ENGINEERING CONTRACTING AND Supplying

شركة الزهراء
للمقاولات الهندسية
والتوريدات

Project Name:

test777b

Client Name:

t

Capacity:

t



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1. Belt Conveyor

Sec01: General Data

Field	Value
Manufacturer	Winkel
Quantity	2

Sec02: Design Data

Field	Value
Width	1000
Length	1000

Sec03: Gearbox Data

Field	Value
Trade Mark	SEW
Model	SA57T

Sec04: Motor Data

Field	Value
Trade Mark	SEW
Rated Power	0.373 kW
Supply Voltage	580 V, 3 Phases, 50 Hz
Insulation	Class F
Temp Rise	Class B
Ingress Protection	IP65

Sec05: Material Data

Field	Value
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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. Container

Sec01: General Data

Field	Value
Manufacturer	Factory
Quantity	3

Sec02: Design Data

Field	Value
Capacity	5 m3
Thicknesses	5mm
No. of Wheel	5
Automatic safety lock	Yes

Sec03: Material Data

Field	Value
Frame	Epoxy Coated
Bolts & Nuts	Galvanized steel
Wheel	Steel with rubber



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3. 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	1000 mm
Total tank length	10000 mm
Water depth	1000 mm
Length of the bridge	10000 mm
Width of bridge	10000 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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Field	Value
Walkway type	Grating
Handrail Type	tubular
Handrail Height	10000 mm
Wheel Diameter	1000 mm
Wheel Width	100 mm
Wheel rail	square bar 40x40mm

Sec04: Scrapper Data

Field	Value
Grease scrapper Thickness	6 mm
Height of the scrapper	1000 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: Scraper Data

Field	Value
Sand Scraper Thickness	10 mm
Height of the scraper	1000 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	10 mm
Component	Schneider
Operation	Manual / Automatic timer switch

Sec09: Material Data

Field	Value
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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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4. Mechanical Screen

Sec01: General Data

Field	Value
Manufacturer	Factory
Quantity	1

Sec02: Design Data

Field	Value
Type	Multi tack
Flow	0.11 m3/sec
No. of Rake	3
Width	1080 mm
Length	10000 mm
Dead plate	10 mm
Space between bars	100 mm
Bar Type	Rectangular
Bar section	10x20 mm
Inclination	100 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	100 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	1000 mm
Channel Depth	10080 mm



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5. Primary Sedimentation Tank

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	100700 mm
Water Depth	10500 mm
Type	Half Bridge
Length of the bridge	10000 mm
Width of the bridge	10000 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: Section 3

Field	Value
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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	1000 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	1000 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)



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Slots	12(W) x 50 (H) mm
Thickness	4 mm
Height	1000 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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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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6. Wall Penstocks



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7. Quick Valve

Sec01: Section 1

Field	Value
Manufacturer	Factory
Quantity	1
Operation	Manual

Sec02: Section 2

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



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8. Sand Silo

Sec01: Section 1

Field	Value
Manufacturer	Factory
Quantity	1

Sec02: Section 2

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

Sec03: Section 3

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



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9. Thickener

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	6000 mm
Water Depth	3500 mm
Bridge Type	Concrete

Sec03: Section 3

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: Section 4

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 (adjustable slot)
Slots	12(W) x 50 (H) mm
Thickness	4 mm
Height	200 mm

Sec05: Section 5

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

Sec06: Section 6

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: Section 7



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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 Overflow Weir	AISI 316
Material of Bolts and nuts	AISI 316 (A4)



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10. Telescopic Valve

Sec01: Section 1

Field	Value
Manufacturer	Factory
Quantity	1
Operation	Manual rising stem

Sec02: Section 2

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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11. 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	10000 mm
Hand rake	No. 2
Space between bar	100 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	1000 mm



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Depth

10080 mm