



# Z.C.E

شركة الزهراء  
للمقاولات الهندسية  
والتوريدات

*EIZAHRAA FOR ENGINEERING CONTRACTING AND Supplying*

## Project Report: EEE

### Project Details

Name: EEE

Client Name: E

Capacity: E



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## 1. Belt Conveyor



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## 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	Value
Frame	Hot deep galvanized steel



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Roller	Hot deep galvanized steel
Bolts & Nuts	AISI 304 (A2)
Conveyor	Rubber 10 mm (3Ply cotton/nylon)



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## 2. 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 <sup>2</sup>
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