

شركة الزهراء للمقاولات الهندسية والتوريدات

EIZAHRAA FOR ENGINEERING CONTRACTING AND Supplying

Project Report: TTTT

Project Details

Name: TTTT

Client Name: t

Capacity: t



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1. CT_B

Sec01: Section 1

Field	Value
Tank Diameter (mm)	5000
Tank Height (mm)	5000

Field	Value
Tank Weight (KG)	4698.0
Tank Volume (m3)	98.0
Shell Th (mm)	4
Base Th (mm)	6
Shell Weight (KG)	2512.0
Base Weight (KG)	942.0
Base UPN Weight (KG)	302.0
Cover Weight (KG)	942.0



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2. Mechanical Screen

Sec01: General Data

Field	Value
Channel Height (mm)	1000
Screen Width (mm)	1000
Belt Height (mm)	1000
Water Level (mm)	600
Bar Spacing (mm)	25
Bar Th (mm)	10
Bar Width (mm)	50
Inclination Degree (Deg)	70
Sprocket Diameter (mm)	320
Velocity (m/s)	0.06

Field	Value
Weight of Screen (kg)	496.62
Power Required (Wat)	138.86
Speed of motor (RPM)	3.58 RPM.



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3. BS_B

Sec01: Section 1

Field	Value
Bar Diameter (mm)	20
Bar Spacing (mm)	25
Screen Height (mm)	1100
Screen Width (mm)	700
Screen Length (mm)	500
Plate Thickness (mm)	16

Field	Value
Bars Weight (KG)	94.5
Plate Weight (KG)	41.86
Total Weight (KG)	178.22



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4. Gritremoval

Sec01: General Data

Field	Value
N of Channels	2
Channel Width	2.5
Civil Width	0.4
Bridge Length	6
Wheel Diameter	0.25
Friction	0.3
Velocity	0.05
Safety Factor	1.5

Field	Value
Weight Total (kg)	1956.00
Driving Power (kW)	628.71
Driving Motor Speed (rpm)	3.82
Weight steel	1256.00
Weight St.St	700.00
Lifting Power (kW)	282.60



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5. MX_B

Sec01: Section 1

Field	Value
Length (m)	1.5
Width (m)	1.5
Water Depth (m)	1.5
Tank Depth (m)	2
Impeller Coefficient	1.36
Velocity Gradient	600
I D Factor	0.5
Safety Factor	1.5

Field	Value
Total Weight (kg)	0
Power Required (kW)	Power: 3206.25 Wat
Motor Speed (rpm)	Speed: 79.73 RPM
Impeller Diameter (mm)	ImpellerDiameter: 0.85 Meter
Shaft Length (M)	1.40
Shaft D (mm)	43.90
Туре	Rec



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6. PNch_B

Sec01: Section 1

Field	Value
Channel Height	1700
Frame Height Over Channel	900
Channel Width	650
Gate Margin Width	150
Water Level	475
Gate Margin Over Water Lv	200
Gate Th	6
Gate Other PLs	10
HeadStock	15
Frame Weight Per M	12.5

Field	Value
Frame Perimeter	7150.0
Frame Weight (KG)	89.375
Gate PL Weight	25.92
Gate Stiffener N	3.0
Gate Stiffener Weight	7.776
Gate Weight (KG)	43.696
Total Weight (KG)	162.88



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7. Primary Sedimentation

Sec01: Section 1

Field	Value
Walkway Length	10
Friction Coefficient	0.3
Velocity (m/s)	0.05
FOS	1.5

Field	Value
Total Weight (kg)	2580.0
Power Required (kW)	725.625
Motor Speed (rpm)	0
Steel Weight (kg)	1800.0
St.St. Weight (kg)	780.0



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8. SC_B

Sec01: Section 1

Field	Value
Density (Kg/m3)	1600
Length (mm)	5000
Diameter (mm)	300
RequiredFlow (m3/h)	5
FillingRatio	0.4
SafetyFactor	1.5
MotorEff	0.7
ShaftDiameter (mm)	50

Field	Value
Pitch (mm)	240.0
Speed (RPM)	12.64
Motor Power (Wat)	238.1
ScrewWeight (Kg)	121.51
FrameWeight (Kg)	337.25



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9. Sludge Thickener

Sec01: Section 1

Field	Value
Diameter	10
N of Arms	3
Velocity (m/s)	0.05
FOS	1.5

Field	Value
Total Weight (kg)	2625.0
Power Required (kW)	421.875
Motor Speed (rpm)	0
Recommended Pipe Diameter	0
Pinion Teeth	0



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10. Manual Screen

Sec01: General Data

Field	Value
Chanel Height (m)	1.2
Channel Width (m)	0.8
Water Level (m)	0.75
Water Level Margin (m)	0.1
Bar Spacing (m)	0.025
Bar Thickness (m)	0.01
Bar Width (m)	0.025
Angle	45

Field	Value
Weight (KG)	80.76



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11. Belt Conveyor

Sec01: General Data

Field	Value
Belt Length	7000
Belt Width	800
Drum Diameter	250
Friction	0.3
Velocity	0.4
Factor of Safety	1.5
Belt weight per meter	15

Field	Value
Weight	396.33
Power	539.14
Speed	0