



Project Report: Testing111

Project Details

Project Name:

Testing111

Client Name:

cc

Capacity:

C

1. Mechanical Screen

Sec01: Inputs

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
Safety Factor	1.5

Sec02: Outputs

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

2. Belt Conveyor

Sec01: Inputs

Field	Value
Belt Length	14000
Belt Width	1600
Drum Diameter	500
Friction	0.6
Velocity	0.8
Factor of Safety	3
Belt weight per meter	30

Sec02: Outputs

Field	Value
Weight	762.67
Power	17252.35
Speed	0

3. Basket screens

Sec01: Inputs

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

Sec02: Outputs

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