# 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 |