# Project Report: ProjQQQQQQQQ

## Project Details

Project Name:

ProjQQQQQQQQ

Client Name:

qq

Capacity:

qq

### 1. Belt Conveyor

### Sec01: Inputs

|  |  |
| --- | --- |
| 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 |

### Sec02: Outputs

|  |  |
| --- | --- |
| Field | Value |
| Weight | 396.33 |
| Power | 539.14 |
| Speed | 0 |

### 2. Gritremoval

### Sec01: Inputs

|  |  |
| --- | --- |
| 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 |

### Sec02: Outputs

|  |  |
| --- | --- |
| 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 |

### 3. Primary Sedimentation

### Sec01: Inputs

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

### Sec02: Outputs

|  |  |
| --- | --- |
| 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 |