



# Z.C.E

شركة الزهراء  
للمقاولات الهندسية  
والتوريدات

*EIZAHRAA FOR ENGINEERING CONTRACTING AND Supplying*

## Project Report: Mohey-Eldeen

### Project Details

Name: Mohey-Eldeen

Client Name: ahmed1234

Capacity: aaaaaa1234

# 1. 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  |

## Sec02: Design Data

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

## 2. 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    |

### Sec02: Design Data

| Field       | Value |
|-------------|-------|
| Weight (KG) | 80.76 |

### 3. 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    |

#### Sec02: Design Data

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