IB-PAL-0000111322

Project Name: Constructing Medical Waste Treatment Facility in Gaza Governorate

Drawings

Electronic copy of the BOQ shall be submitted along with the signed hard copy thereof. In case of any discrepancy between the soft and the hard copies, the hard copy shall prevail.

August, 2020
Constructing of Medical Waste Treatment Facility in Gaza and North Governorates

JULY 2020
Constructing of Medical Waste Treatment Facility in Gaza and North Governorates

RFQ-PAL0000102364

ARCHITECTURAL DRAWINGS
MWTF-AR-001 → MWTF-AR-023
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<tr>
<td>MWTF-AR-018</td>
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<tr>
<td>MWTF-AR-019</td>
<td>Doors Details 5-6</td>
</tr>
<tr>
<td>MWTF-AR-020</td>
<td>Doors Details 6-6</td>
</tr>
<tr>
<td>MWTF-AR-021</td>
<td>Windows Details 1-3</td>
</tr>
<tr>
<td>MWTF-AR-022</td>
<td>Windows Details 2-3</td>
</tr>
<tr>
<td>MWTF-AR-023</td>
<td>Windows Details 3-3</td>
</tr>
</tbody>
</table>
Constructing of Medical Waste Treatment Facility in Gaza and North Governorates

ITB NO.: JULY 2020

MWTF-AR-002

General Layout

1:200

Plot Area: 1511 m²
Ground Floor Area: 435.8 m²
First Floor Area: 347.4 m²
Occupancy: 28.8%

Vehicles Entrance
Vehicles Exit
Employees Entrance
Dump Exit

1511 m²

435.8 m²

347.4 m²

28.8%
### Areas Tables

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D Stairs</th>
<th>E Cantilever</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area</td>
<td>88.4 m²</td>
<td>176.8 m²</td>
<td>127.5 m²</td>
<td>34.4 m²</td>
<td>8.7 m²</td>
<td>435.8 m²</td>
</tr>
</tbody>
</table>

### Areas Tables

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D Stairs</th>
<th>E Cantilever</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area</td>
<td>-</td>
<td>176.8 m²</td>
<td>148.3 m²</td>
<td>22.3 m²</td>
<td>-</td>
<td>347.4 m²</td>
</tr>
</tbody>
</table>

---

**Ground Floor Plan**

Scale 1:200
### Interior Finishes Table

<table>
<thead>
<tr>
<th>Space</th>
<th>Floor Finish</th>
<th>Skirting</th>
<th>Wall Finish</th>
<th>Ceiling Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical Room</td>
<td></td>
<td>2 cm Internal plaster Up to Ceiling with 2 layers minimum Water Paint (Supercryl).</td>
<td>2 cm Internal plaster with 2 layers minimum Water Paint (Supercryl).</td>
<td></td>
</tr>
<tr>
<td>Treatment Hall Vehicles Washing Internal Ramps</td>
<td></td>
<td>2 cm Internal plaster with 2 layers minimum Water Paint (Supercryl).</td>
<td>2 cm Internal plaster with 2 layers minimum Water Paint (Supercryl).</td>
<td></td>
</tr>
<tr>
<td>Buffet, Toilets, WCs, WC's, Clean change, Cloth wash, cloth Dry &amp; Shower</td>
<td></td>
<td>2 cm Internal plaster with 2 layers minimum Water Paint (Supercryl).</td>
<td>2 cm Internal plaster with 2 layers minimum Water Paint (Supercryl).</td>
<td></td>
</tr>
<tr>
<td>Temporary Waste Storage, Containers washing, Containers Drying, Disinfected Store</td>
<td></td>
<td>2 cm Internal plaster with 2 layers minimum Water Paint (Supercryl).</td>
<td>2 cm Internal plaster with 2 layers minimum Water Paint (Supercryl).</td>
<td></td>
</tr>
<tr>
<td>Guard Offices, Offices Corridors, Meeting Rooms</td>
<td></td>
<td>2 cm Internal plaster with 2 layers minimum Water Paint (Supercryl).</td>
<td>2 cm Internal plaster with 2 layers minimum Water Paint (Supercryl).</td>
<td></td>
</tr>
<tr>
<td>IT Room, Electrical Room, Storage</td>
<td></td>
<td>2 cm Internal plaster with 2 layers minimum Water Paint (Supercryl).</td>
<td>2 cm Internal plaster with 2 layers minimum Water Paint (Supercryl).</td>
<td></td>
</tr>
<tr>
<td>Stairs (Except last three flights)</td>
<td></td>
<td>2 cm Internal plaster with 2 layers minimum Water Paint (Supercryl).</td>
<td>2 cm Internal plaster with 2 layers minimum Water Paint (Supercryl).</td>
<td></td>
</tr>
</tbody>
</table>

### Doors Table

#### Steel Doors Table

<table>
<thead>
<tr>
<th>SYM</th>
<th>Material</th>
<th>System Type</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>R.S.D.</td>
<td>Steel</td>
<td>Sliding</td>
<td>1</td>
</tr>
<tr>
<td>M.L.D.</td>
<td>Armored Steel</td>
<td>Hinged</td>
<td>1</td>
</tr>
<tr>
<td>M.L.D.</td>
<td>Armored Steel</td>
<td>Hinged</td>
<td>1</td>
</tr>
<tr>
<td>M.L.D.</td>
<td>Armored Steel</td>
<td>Hinged</td>
<td>4</td>
</tr>
<tr>
<td>M.L.D.</td>
<td>Armored Steel</td>
<td>Hinged</td>
<td>2</td>
</tr>
<tr>
<td>M.L.D.</td>
<td>Armored Steel</td>
<td>Hinged</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Multi Lock Doors Table

<table>
<thead>
<tr>
<th>SYM</th>
<th>Material</th>
<th>System Type</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>S.D.</td>
<td>Steel</td>
<td>Roll Up</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Aluminum Doors Table

<table>
<thead>
<tr>
<th>SYM</th>
<th>Material</th>
<th>System Type</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>AL.D</td>
<td>Aluminum &amp; Glass</td>
<td>Hinged</td>
<td>5</td>
</tr>
<tr>
<td>AL.D</td>
<td>Aluminum &amp; Composite Panel</td>
<td>Hinged</td>
<td>14</td>
</tr>
<tr>
<td>AL.D</td>
<td>Aluminum &amp; HPL Panel</td>
<td>Hinged</td>
<td>4</td>
</tr>
</tbody>
</table>

### Windows Table

#### Aluminum Windows

<table>
<thead>
<tr>
<th>SYM</th>
<th>Material</th>
<th>Size</th>
<th>System Type</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>W1</td>
<td>Aluminum &amp; Glass</td>
<td>90x120 cm</td>
<td>Sliding</td>
<td>15</td>
</tr>
<tr>
<td>W2</td>
<td>Aluminum &amp; Glass</td>
<td>100x120 cm</td>
<td>Sliding</td>
<td>4</td>
</tr>
<tr>
<td>W3</td>
<td>Aluminum &amp; Glass</td>
<td>80x60 cm</td>
<td>Tilting</td>
<td>9</td>
</tr>
<tr>
<td>W4</td>
<td>Aluminum &amp; Glass</td>
<td>310x80 cm</td>
<td>Fixed &amp; Tilting</td>
<td>6</td>
</tr>
<tr>
<td>W5</td>
<td>Aluminum &amp; Glass</td>
<td>60x130 cm</td>
<td>Tilting</td>
<td>2</td>
</tr>
<tr>
<td>W6</td>
<td>Aluminum &amp; Glass</td>
<td>310x140 cm</td>
<td>Fixed &amp; Tilting</td>
<td>6</td>
</tr>
<tr>
<td>W7</td>
<td>Aluminum &amp; Glass</td>
<td>310x150 cm</td>
<td>Fixed</td>
<td>3</td>
</tr>
</tbody>
</table>

### Project Details

**Client:**

**Consultant:**

**Project Name:** Constructing of Medical Waste Treatment Facility in Gaza and North Governorates

**Drawing Title:** Internal finishes, doors & Windows Tables

**Drawing No.:** MWTF-AR-004

**Scale:** 1:100

**Date:** July 2020

**Drawing No.:** MWTF-AR-004
CLIENT:

CONSULTANT:

PROJECT NAME:
Constructing of Medical Waste Treatment Facility in Gaza and North Governorates

ITB NO.:

DRAWING TITLE:
Ground Floor Plan

DRAWING NO.:
MWTF-AR-005

SCALE:
1:100

DATE:
JULY 2020

FOR TENDER ONLY

Nitrogen in the air can be absorbed by plants, and this process is known as...
FOR TENDER ONLY

CONSULTANT:

CLIENT:

PROJECT NAME:
Constructing of Medical Waste Treatment Facility in Gaza and North Governorates

ITB NO.:

DRAWING

TITLE:
First Floor Furnishing Plan

DRAWING NO.:
MWTF-AR-009

DRAWING SCALE:
1:100

DATE:
JULY 2020

[Diagram of First Floor Furnishing Plan]
FOR TENDER ONLY

CLIENT:

CONSULTANT:

PROJECT NAME: Constructing of Medical Waste Treatment Facility in Gaza and North Governorates

ITB NO.:

DRAWING TITLE: Northern & Western Elevations

DRAWING NO.: MWTF-AR-010

DRAWING SN: 1:100

DATE: JULY 2020

Northern Elevation

Western Elevation
Constructing of Medical Waste Treatment Facility in Gaza and North Governorates

ITB NO.: MWTF-AR-011

Scale: 1:100

Date: JULY 2020
DT 1: Staircase

Main Staircase Plan

DT 1-1

Scale 1:25

DT 1-2

Scale 1:25

DT 1-1: Flight First Step

DT 1-2: Flight Last Step

30x120x3 cm Rosabita Marble step
14x120x2 cm Rosabita Marble riser
2 cm Rosabita Marble Skirting
R.C Stairs Flight
2 cm internal Plaster with Supercryl Paint

30x120x3 cm Terrazzo Tile for IT Room Under Stairs

2 cm Rosabita Marble Skirting
14x120x2 cm Rosabita Marble Riser
36x120x3 cm Rosabita Marble Step
30x60x2 cm Rosabita Marble tiles for Landings
R.C Stairs Flight

Section S1:S1

FOR TENDER ONLY

CLIENT:

CONSULTANT:

PROJECT NAME:
Constructing of Medical Waste Treatment Facility in Gaza and North Governorates
ITB NO.:

DRAWING TITLE:
Staircase Details

DRAWING NO.:
MWTF-AR-013

DRAWING SN:
1:100

SCALE:
DATE:
JULY 2020
Main Entrance Stairs & Ramp Details

Section S2:S2

Main Entrance Stairs & Ramp Front View

Project: Constructing of Medical Waste Treatment Facility in Gaza and North Governorates

ITB NO.: MWTF-AR-014

Scale: 1:100

Date: July 2020
**SYM** | **Material** | **Structural Size** | **QTY**
--- | --- | --- | ---
M.L.D1 | Armored Steel | 150X230 cm | 1
Hinged | 2 Leaves | 94-47X215 cm
Loading Deck door

**SYM** | **Material** | **Structural Size** | **QTY**
--- | --- | --- | ---
M.L.D2 | Armored Steel | 130X230 cm | 1
Hinged | 2 Leaves | 94-47X215 cm
Loading Deck door

---

**For Tender Only**

**Client:**

**Consultant:**

**Project Name:** Constructing of Medical Waste Treatment Facility in Gaza and North Governorates

**ITB NO.:**

**Drawing Title:** Doors Details 1-6

**Drawing NO.:** MWTF-AR-015

**Drawn:**

**Scale:** 1:100

**Date:** JULY 2020
<table>
<thead>
<tr>
<th>SYM</th>
<th>Material</th>
<th>Structural Size</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.L.D3</td>
<td>Armored Steel</td>
<td>100X230 cm</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Leaves</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Leaves Size</td>
<td>94X215 cm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stairs Doors</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SYM</th>
<th>Material</th>
<th>Structural Size</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.L.D4</td>
<td>Armored Steel</td>
<td>100X230 cm</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Leaves</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Leaves Size</td>
<td>94X215 cm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Egress Doors</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SYM | Material | Structural Size  | QTY  
---|---|---|--- 
M.L.D5 | Armored Steel | 80X230 cm | 1 
System | Leaves | Leaves Size | 
Hinged | 1 Leaf | 72X215 cm | 
IT Room | R.S.D1 | Steel | 350X350 cm | 2 
System | Leaves | Leaves Size | 
Roll Up | 
Mechanical Room+ Unloading Area | 

RC Lintal 190-240x50 / 1.5 mm thick GS Door Frame 
Multi-Lock handle With Cylinder (4-8 Ways) 
1.5 mm GS Door Frame 
1.25 GS Sheet with Hammertron Finish Paint 
Rock Wool 1.25 mm GS Sheet 
2 cm Plaster 
Door Anchor Closer 
Hammertron Finish Paint 
Size Adjustment Telescope Bar
Constructing of Medical Waste Treatment Facility in Gaza and North Governorates

ITB NO.: MWTF-AR-018

Drawing Title: Doors Details 4-6

Scale: 1:100

Date: JULY 2020

Material:
- 2 mm thick GS Louver Sheets
- 2 mm thick GS Sheet
- 100x50x2 mm Galvanized steel Profile
- 100x100x2 mm Galvanized steel Profile
- 2 mm Thick GS Louver Sheets
- Ø20 mm door Rail
- Door Manual Closer/ Lock
- Heavy Duty wheels/ Castors

FOR TENDER ONLY
<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>SYSTEM</th>
<th>MATERIAL</th>
<th>STRUCTURAL SIZE</th>
<th>QTY</th>
<th>LEAVES</th>
<th>LEAVES SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AL. D1</td>
<td>Hinged</td>
<td>Aluminum</td>
<td>150X230 cm</td>
<td>4</td>
<td>1 Leaf</td>
<td>88,46X211 cm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AL. D3</td>
<td>Hinged</td>
<td>Aluminum</td>
<td>150X230 cm</td>
<td>4</td>
<td>1 Leaf</td>
<td>88,46X211 cm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Material:**
- Black Aluminum Profile
- 2000 Section (\(66 \times 40\))
- Aluminum Door Handle with Switch
- 4 mm HPL Panels
- 6 mm Clear transparent Glass
- 3 mm HPL Panels
- 6 mm Clear transparent Glass
- 4 mm HPL Panels
- 6 mm Clear transparent Glass
- 4 mm HPL Panels
- 6 mm Clear transparent Glass
- 4 mm HPL Panels
- 6 mm Clear transparent Glass
- 4 mm HPL Panels
- 6 mm Clear transparent Glass
- 4 mm HPL Panels
- 6 mm Clear transparent Glass
- 4 mm HPL Panels

**Scale:** 1:25

**Drawing Title:** Doors Details 5-6

**Drawing Number:** MWTF-AR-019

**Project Name:** Constructing of Medical Waste Treatment Facility in Gaza and North Governorates

**ITB No.:** MWTF-AR-019

**Date:** JULY 2020
**Project Name:** Constructing of Medical Waste Treatment Facility in Gaza and North Governorates

**ITB No.:** MWTF-AR-020

**Drawing Title:** Doors Details 6-6

**Scale:** 1:25

**Date:** JULY 2020

<table>
<thead>
<tr>
<th>Material</th>
<th>Structural Size</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>80X230 cm</td>
<td>14</td>
</tr>
</tbody>
</table>

**System:**

- Leaves
- Leaves Size: 65X211 cm

**Hinged:**

- 1 Leaf

**Material:**

- 6 mm Sandblasted Glass
- 4 mm Double Alkabond Sheets (Composite Panels) (4+4 mm)
- Black Aluminum Profile 2200 Section (NAPCO)
- Toilet door Handle with on/off Switch or one-Way handle
- 4 mm Double Alkabond Sheets (Composite Panels) (4+4 mm)

**Materials:**

- Aluminum Profile 2200 Section (NAPCO)
- Toilet door Handle with on/off Switch or one-Way handle
- 6 mm Sandblasted Glass
- 4 mm Double Alkabond Sheets (Composite Panels) (4+4 mm)

**Aluminum Doors Profile 2000 Details**

<table>
<thead>
<tr>
<th>Material</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinged</td>
<td>1</td>
</tr>
<tr>
<td>Toilet, Buffets and changing rooms</td>
<td></td>
</tr>
</tbody>
</table>

**Toilet door Handle with on/off Switch or one-Way handle**

<table>
<thead>
<tr>
<th>Material</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toilet door Handle with on/off Switch or one-Way handle</td>
<td></td>
</tr>
</tbody>
</table>

**System:**

- Leaves
- Leaves Size: 65X211 cm

**Hinged:**

- 1 Leaf

**Materials:**

- Aluminum Profile 2200 Section (NAPCO)
- Toilet door Handle with on/off Switch or one-Way handle
- 6 mm Sandblasted Glass
- 4 mm Double Alkabond Sheets (Composite Panels) (4+4 mm)
## Windows Details 1-3

### AL. W1

<table>
<thead>
<tr>
<th>SYM</th>
<th>Material</th>
<th>Structural Size</th>
<th>QTY</th>
<th>System</th>
<th>Leaves</th>
<th>Window Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>AL. W1</td>
<td>Aluminum</td>
<td>90X120 cm</td>
<td>15</td>
<td>Sliding</td>
<td>2 Leaves</td>
<td>86X113 cm</td>
</tr>
</tbody>
</table>

7000 Ambatia

### AL. W4

<table>
<thead>
<tr>
<th>SYM</th>
<th>Material</th>
<th>Structural Size</th>
<th>QTY</th>
<th>System</th>
<th>Leaves</th>
<th>Window Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>AL. W4</td>
<td>Aluminum</td>
<td>310X80 cm</td>
<td>6</td>
<td>Tiling &amp; Fixed</td>
<td>2 Tilting, 2 Fixed</td>
<td>306X73 cm</td>
</tr>
</tbody>
</table>

4500

### AL. W2

<table>
<thead>
<tr>
<th>SYM</th>
<th>Material</th>
<th>Structural Size</th>
<th>QTY</th>
<th>System</th>
<th>Leaves</th>
<th>Window Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>AL. W2</td>
<td>Aluminum</td>
<td>100X120 cm</td>
<td>4</td>
<td>Sliding</td>
<td>2 Leaves</td>
<td>96X113 cm</td>
</tr>
</tbody>
</table>

7000 Ambatia

### AL. W3

<table>
<thead>
<tr>
<th>SYM</th>
<th>Material</th>
<th>Structural Size</th>
<th>QTY</th>
<th>System</th>
<th>Leaves</th>
<th>Window Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>AL. W3</td>
<td>Aluminum</td>
<td>80X60 cm</td>
<td>9</td>
<td>Tiling</td>
<td>1 Leaf</td>
<td>76X53 cm</td>
</tr>
</tbody>
</table>

4500

### AL. W5

<table>
<thead>
<tr>
<th>SYM</th>
<th>Material</th>
<th>Structural Size</th>
<th>QTY</th>
<th>System</th>
<th>Leaves</th>
<th>Window Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>AL. W5</td>
<td>Aluminum</td>
<td>60X130 cm</td>
<td>2</td>
<td>Tiling</td>
<td>1 Leaf</td>
<td>56X123 cm</td>
</tr>
</tbody>
</table>

4500

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**FOR TENDER ONLY**

**CLIENT:**

**CONSULTANT:**

**PROJECT NAME:** Constructing of Medical Waste Treatment Facility in Gaza and North Governorates

**DRAWING TITLE:** Windows Details 1-3

**DRAWING NO.:** MWTF-AR-021

**DRAWING SN:** As Shown

**SCALE:** 1:25

**DATE:** JULY 2020
AL. W6

<table>
<thead>
<tr>
<th>Sym</th>
<th>Material</th>
<th>Structural Size</th>
<th>QTY</th>
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<tbody>
<tr>
<td>AL. W6</td>
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<td>310X140 cm</td>
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<td>System</td>
<td>Leaves</td>
<td>Window Size</td>
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<td>Tiling &amp; Fixed</td>
<td>4 Tiling, 4 Fixed</td>
<td>306X133 cm</td>
<td>4500</td>
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AL. W7

<table>
<thead>
<tr>
<th>Sym</th>
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<tr>
<td>AL. W7</td>
<td>Aluminum</td>
<td>310X150 cm</td>
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<td>System</td>
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<td>Window Size</td>
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<td>Tiling</td>
<td>2 Fixed</td>
<td>306X143 cm</td>
<td>2000 Profile 66/40</td>
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</table>
### Structural Drawings List

<table>
<thead>
<tr>
<th>Drawing #</th>
<th>Drawing Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MWTF-ST-001</td>
<td>GENERAL NOTES (1/2)</td>
</tr>
<tr>
<td>MWTF-ST-002</td>
<td>GENERAL NOTES (2/2)</td>
</tr>
<tr>
<td>MWTF-ST-003</td>
<td>COLUMN AXES</td>
</tr>
<tr>
<td>MWTF-ST-004</td>
<td>FOUNDATIONS LAYOUT</td>
</tr>
<tr>
<td>MWTF-ST-005</td>
<td>FOUNDATION DETAILS</td>
</tr>
<tr>
<td>MWTF-ST-006</td>
<td>COLUMN DETAILS</td>
</tr>
<tr>
<td>MWTF-ST-007</td>
<td>GROUND BEAM DETAILS</td>
</tr>
<tr>
<td>MWTF-ST-008</td>
<td>GROUND FLOOR SLAB</td>
</tr>
<tr>
<td>MWTF-ST-009</td>
<td>BEAMS REINF. DETAILS FOR GROUND FLOOR SLAB</td>
</tr>
<tr>
<td>MWTF-ST-010</td>
<td>FIRST FLOOR SLAB</td>
</tr>
<tr>
<td>MWTF-ST-011</td>
<td>BEAMS REINF. DETAILS FOR FIRST FLOOR SLAB</td>
</tr>
<tr>
<td>MWTF-ST-012</td>
<td>STAIRS, RAMPS &amp; ELEVATORS DETAILS</td>
</tr>
<tr>
<td>MWTF-ST-013</td>
<td>SEPTIC TANK DETAILS</td>
</tr>
<tr>
<td>MWTF-ST-014</td>
<td>PROPOSED LEVELS &amp; LANDSCAPING FOR SITE</td>
</tr>
<tr>
<td>MWTF-ST-015</td>
<td>BOUNDARY WALL LAYOUT</td>
</tr>
<tr>
<td>MWTF-ST-016</td>
<td>BOUNDARY WALL DETAILS</td>
</tr>
<tr>
<td>MWTF-ST-017</td>
<td>GENERAL DETAILS</td>
</tr>
</tbody>
</table>
1. GENERAL
1a. Structural drawings shall be read in conjunction with Architectural, Mechanical, Electrical drawings and Specifications.
1b. It is the contractor's responsibility to prepare and submit workshop drawings for Engineer approval before starting any works.
1c. Should there be any discrepancy in drawings, the contractor must consider it in his price.
1d. Concrete surface in contact with soil shall be painted 1-coat of primer and minimum 2-coats of hot bitumen.
1e. Notes and openings in concrete elements such as beams and slabs are subject to Engineer Approval.
1f. For setting out and levels refer to the Architectural Drawings.
1g. The contractor is responsible for all safety measures.
1h. Water Resistance leakage tests shall be made to the water retaining structure.
1i. All material used in the concrete and internal water proofing for water retaining structures shall be approved as Non-Toxic.
1j. Backfilling will not be permitted around walls prior to successful leakage test and/or permission of the engineer.
1k. Unless otherwise shown on the drawings, bars shall be cut or bent in accordance with ACI code. The contractor must submit for approval bar bending schedules.
1l. Laps in Beams, Slabs, Foundation and Walls should be staggered.
1m. Bar Support & Spacers should be of the same size as main bars, but not less than 20mm, placed on max spacing of 1.0m.

2. DESIGN DATA
2a. The building is designed for 4 stories as follows: Ground + First + Second + Third Floors.
2b. Bearing Capacity: 260 KN/m².

3. CODE OF PRACTICE
3a. Design for reinforced concrete is done according to ACI 318-14.

4. CONCRETE COMPRESSIVE STRENGTH
4a. Concrete compressive strength (fcu) shall be as follows:
   - For plain concrete: 20 MPa.
   - For ground slabs, slits, lintels, decorative concrete: 15 MPa.
   - For footings, ground beams, slabs, stairs: 25 MPa.
   - For main columns, walls, septic tanks: 30 MPa.

5. CONCRETE COVER
5a. Clear concrete cover to reinforcement shall be:
   - For footings, coil racks, Gr. beams (protected concrete): 5.0 cm.
   - For columns, walls and beams: 4.0 cm.
   - For slabs: 2.5 cm.

6. REINFORCEMENT
6a. Reinforcement shall be deformed high strength steel bars of characteristic strength of 400 MPa complying with ASTM standards or equivalent for diameters 8mm & above.
6b. Reinforcement shall be placed as shown on the drawings and in the lengths specified.
6c. Where bar length is not specified, longest practicable bar length shall be employed with staggered lap splice. Lap length shall be 50 times bar diameter. Lap length for unequal Dia. based on the smaller bar.
6d. Bar crank shall not exceed 1:12.
6e. Bar spacer & support not less than 2.5cmØ1.00cm.
6f. Bar spacing shall be not less than the greater of: 25 mm, 1.5 x bar diameter and 1.25 times the max size of coarse aggregate.

GENERAL NOTES & DETAILS

TYPICAL BAR CUTOFF IN BEAMS AND SLIPS
- For typical spans, bar extension in beams and slabs shall be not less than the following:
  - L1 ≤ 0.25L1
  - L2 ≤ 0.25L1 or 0.25L2 which is longer.
  - L3 ≤ 0.33L1 or 0.33L2 which is longer.

TRANSVERSE REINFORCEMENT IN COLUMNS

REINFORCEMENT OF LINTEL

GENERAL SECTION FOR STIRRUPS DISTRIBUTION IN COLUMNS
GENERAL NOTES & DETAILS

COLUMNS & SHEAR WALLS GENERAL DETAILS

RECTANGULAR OPENING < 500mm

RECTANGULAR OPENING > 500mm

CIRCULAR OPENING < 500mm

CIRCULAR OPENING > 500mm

U-BARS FOR WALL ENDS AND CORNERS

STAGGERED REINF. DETAILS

FOR TENDER ONLY

CLIENT: [Client Name]

CONSULTANT: [Consultant Name]

PROJECT NAME: Constructing of Medical Waste Treatment Facility in Gaza and North Governorates

ITB No.: [ITB Number]

DRAWING NO.: MWTF-ST-002

DRAWING SN.: AS SHOWN

SCALE: AS SHOWN

DATE: August 2020
TABLE OF ISOLATED FOOTINGS

<table>
<thead>
<tr>
<th>TYPE</th>
<th>COLUMNS NO.</th>
<th>No.</th>
<th>DIMENSIONS (m)</th>
<th>REINFORCEMENT (BOTTOM)</th>
<th>REINFORCEMENT (TOP)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>LONG SHORT THICK</td>
<td>LONG DIRECTION</td>
<td>SHORT DIRECTION</td>
</tr>
<tr>
<td>F1</td>
<td>1,6,7,13,19,23</td>
<td>6</td>
<td>1.00 1.00 0.40</td>
<td>7@12(T.L=1.40m)</td>
<td>7@12(T.L=1.40m)</td>
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<tr>
<td>F2</td>
<td>5,18,26</td>
<td>3</td>
<td>1.40 1.40 0.40</td>
<td>10@12(T.L=1.70m)</td>
<td>10@12(T.L=1.70m)</td>
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<tr>
<td>F3</td>
<td>2,4,12,17,22,24</td>
<td>6</td>
<td>1.80 1.80 0.45</td>
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<td>14@12(T.L=2.10m)</td>
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<tr>
<td>F4</td>
<td>3,8,10,11,14,16,20,25</td>
<td>8</td>
<td>2.60 2.00 0.50</td>
<td>26@12(T.L=2.90m)</td>
<td>21@12(T.L=2.30m)</td>
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<tr>
<td>F5</td>
<td>9,15,21</td>
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<td>2.80 2.80 0.60</td>
<td>28@12(T.L=3.30m)</td>
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TABLE OF COMBINED FOOTINGS

<table>
<thead>
<tr>
<th>TYPE</th>
<th>COLUMNS NO.</th>
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<th>DIMENSIONS (m)</th>
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<td>LONG DIRECTION</td>
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<td>CF1</td>
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<td>2.10 2.05 0.40</td>
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<td>16@12(T.L=2.35m)</td>
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GENERAL DETAILS OF FOOTINGS

SCALE 1:100
# Table of Columns

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<tr>
<th>GROUP</th>
<th>COLUMNS</th>
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<th>COLUMN NECKS</th>
<th>GROUND+1ST</th>
<th>SND+3RD+ROOF</th>
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<tbody>
<tr>
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<td>1,4,5,6,7,12,13,18,19,23,26</td>
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<td>8Ø12</td>
<td>8Ø12</td>
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<td></td>
<td></td>
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<td>40</td>
<td>40</td>
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<tr>
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<td></td>
<td>ST. 1Ø10@20cm-MIDDLE</td>
<td>ST. 1Ø10@20cm-MIDDLE</td>
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<td>ST. 1Ø10@10cm-ENDS</td>
<td>ST. 1Ø10@10cm-ENDS</td>
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<td>ST. 2Ø10@20cm-MIDDLE</td>
<td>ST. 2Ø10@20cm-MIDDLE</td>
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<td></td>
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<td>ST. 2Ø10@10cm-ENDS</td>
<td>ST. 2Ø10@10cm-ENDS</td>
<td>ST. 2Ø10@10cm-ENDS</td>
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<tr>
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<td>ST. 2Ø10@20cm-MIDDLE</td>
<td>ST. 2Ø10@20cm-MIDDLE</td>
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<td>ST. 2Ø10@10cm-ENDS</td>
<td>ST. 2Ø10@10cm-ENDS</td>
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</table>

### Typical Section for Concrete Cover

- **Columns Details**
- **Other Columns**

**General Section for Stirrups Distribution in Columns**

**Scale:** 1:20

**Drawing Title:** MWTF-ST-006

**Drawing No.:** AS SHOWN

**Date:** August 2020

---

**For Tender Only**

**Client:**

**Consultant:**

**Project Name:** Constructing of Medical Waste Treatment Facility in Gaza and North Governorates

**ITB No.:**

---

**Columns Details**

- **Columns Necks**
- **Other Columns**

---

**Dimensions:**

- Stirrups distribution in columns
- General section for concrete cover
- TYPICAL SECTION FOR CONCRETE COVER
- NOT TO SCALE
FOR TENDER ONLY

CLIENT: [Blank]

CONSULTANT: [Blank]

PROJECT NAME: Constructing of Medical Waste Treatment Facility in Gaza and North Governorates

ITB No.: [Blank]

DRAWING TITLE: GROUND FLOOR SLAB DETAILS

DRAWING NO.: MWTF-ST-008

DRAWING SN: AS SHOWN

SCALE: AS SHOWN

DATE: August 2020

GROUND FLOOR SLAB

SCALE 1:100

CONCRETE SPACER 2.5cm

HOLLOW BLOCK RIB
DIM: 40x25x17cm

SB DETAILS
SCALE 1:25

SEC. X-X DETAILS
SCALE 1:25

DB DETAILS
SCALE 1:25

DETAILED SECTION FOR RIBS

NTS
PROPOSED LEVELS & LANDSCAPING FOR THE SITE

SCALE 1:100

CONSTRUCTING OF MEDICAL WASTE TREATMENT FACILITY IN GAZA AND NORTH GOVERNORATES

ITB No.: MWTF-ST-014

August 2020 AS SHOWN
BOUNDARY WALL BW1
SCALE 1:20

COL. DETAILS
SCALE 1:10
FOR ENTRANCE & CORNERS
SCALE 1:10

FOUND. DETAILS (F1)
SCALE 1:10

TOP BEAM DETAILS
SCALE 1:10

GROUND BEAM DETAILS
SCALE 1:10

FOR TENDER ONLY

CLIENT:
CONSULTANT:
PROJECT NAME:
 Constructing of Medical Waste Treatment Facility in Gaza and North Governorates
ITB No.:
DRAWING TITLE:
BOUNDARY WALL DETAILS
DRAWING NO.:
MWTF-ST-016
DRAWING SN:
AS SHOWN
SCALE:
DATE:
August 2020
Constructing of Medical Waste Treatment Facility in Gaza and North Governorates

RFQ-PAL0000102364

ELECTRICAL DRAWINGS
MWTF-E-001 → MWTF-E-018
## Electrical Drawings List

<table>
<thead>
<tr>
<th>Drawing #</th>
<th>Drawing Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MWTF-E-001</td>
<td>ELECTRICAL SYMBOLS</td>
</tr>
<tr>
<td>MWTF-E-002</td>
<td>Ground Floor Power Distribution Plan</td>
</tr>
<tr>
<td>MWTF-E-003</td>
<td>First Floor Power Distribution Plan</td>
</tr>
<tr>
<td>MWTF-E-004</td>
<td>Ground Floor Lighting Distribution Plan</td>
</tr>
<tr>
<td>MWTF-E-005</td>
<td>First Floor Lighting Distribution Plan</td>
</tr>
<tr>
<td>MWTF-E-006</td>
<td>Ground Floor UV Lighting Distribution Plan</td>
</tr>
<tr>
<td>MWTF-E-007</td>
<td>Ground Floor Low-Voltage Network Plan</td>
</tr>
<tr>
<td>MWTF-E-008</td>
<td>First Floor Low-Voltage Network Plan</td>
</tr>
<tr>
<td>MWTF-E-009</td>
<td>Ground Floor Fire Alarm Network Plan</td>
</tr>
<tr>
<td>MWTF-E-010</td>
<td>First Floor Fire Alarm Network Plan</td>
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<tr>
<td>MWTF-E-011</td>
<td>Ground Floor CCTV Network Plan</td>
</tr>
<tr>
<td>MWTF-E-012</td>
<td>LIGHTINING SYSTEM</td>
</tr>
<tr>
<td>MWTF-E-013</td>
<td>EARTHING SYSTEM</td>
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<tr>
<td>MWTF-E-014</td>
<td>SITE LAYOUT FOR THE ELECTRICAL NETWORK</td>
</tr>
<tr>
<td>MWTF-E-015</td>
<td>Main Distribution Board (MDB)</td>
</tr>
<tr>
<td>MWTF-E-016</td>
<td>External Lighting Single Line Diagram and DB-ExL</td>
</tr>
<tr>
<td>MWTF-E-017</td>
<td>Distribution Boards DB-GF, DB-FF, DB-UV</td>
</tr>
</tbody>
</table>
**LIGHTING**

- **Recessed ceiling mounted LED Spot light**, Ø7", 18W, Cool White, 220VAC.
- **Decorative LED ROPE** with LED Light type 5050, Power lm = 4.8 W, Blue Color, 220VAC/12Vdc.
- **Recessed ceiling mounted 60X60cm Decorative LED light**, 40W, 220VAC.
- **Recessed ceiling mounted LED Spot light**, Ø3", 5W, Cool White, 220VAC.
- **Surface LED Light ceiling mounted 120cm, 32W, 220V AC**.
- **Surface LED Light ceiling mounted 120cm, 32W, 220V AC, Weatherproof IP65**.
- **Surface Light ceiling or wall mounted 120 cm, 220V AC, with UV tube light**.
- **Surface Light ceiling or wall mounted 60 cm, 220V AC, with UV tube light**.
- **FLOOD LED light 20W, 220V AC, Weatherproof IP67**.
- **"EXIT" SIGN, 8 WATT WITH BACK UP BATTERY 90MIN.**
- **One Gang One Way**, 220 V Ac, 10 A
- **Two Gang One Way**, 220 V Ac, 10 A
- **Three Gang One Way**, 220 V Ac, 10 A
- **One Gang Two Way**, 220 V Ac, 10 A
- **Staircase Push Button**, 220 V Ac, 10 A

**POWER**

- **Elec. Distribution Board**, H=200cm from top.
- **Single Socket**, 220 V Ac, 16 A, H=60cm
- **WP. Single Socket**, 220 V Ac, 16 A, H=60cm
- **Double Socket**, 220 V Ac, 16 A, H=60cm
- **WP. Double Socket**, 220 V Ac, 16 A
- **A/C - Power isolator switch**, H=220cm
- **Heater Isolator Switch**, 220 V Ac, 20 A, H=180cm

**LOW VOLTAGE**

- **Low Voltage, Box (H=2.4cm)**
- **Tel. Outlet (H=60cm)**
- **T.V. Outlet (H=60cm)**
- **Data Outlet (H=60cm)**

**CCTV System**

- **5-Megapixel 4K Vandal-Resistant Network IR POE Camera**
- **5-Megapixel 4K Vandal-Resistant Network IR POE External IP55 Camera**
- **IP65 Junction Box for CCTV External Camera with RJ45 Female Socket**
- **PoE Ethernet Switch, 16Port.**
- **Network Video Recorder with 2X4TB HardDisk.**

**FIRE ALARM**

- **Fire Alarm Control Panel No.(1)**
- **Smoke Detector (Ceiling Type)**
- **Smoke Detector (Wall Type)**
- **Heat Detector**
- **Break Glass (H=150cm)**
- **Fire Alarm Sounder**

**ELECTRICAL SYMBOLS**

**CLIENT:**

**CONSULTANT:**

**PROJECT NAME:**

**DRAWING TITLE:**

**DRAWING NO:** MWTF-E-001

**DRAWING SN:**

**SCALE:**

**DATE:** August 2020
First Floor Lighting Distribution Plan
First Floor UV Lighting Distribution Plan
Ground Floor Low-Voltage Network Plan
Ground Floor Fire Alarm Network Plan

Temporary Waste Store
Treatment Hall
Disinfected Store
Vehicles Washing Containers Drying
Unloading Area
Mechanical Room

Temporary Waste Store

Treatment Hall
Disinfected Store
Vehicles Washing Containers Drying
Unloading Area
Mechanical Room

Ground Floor Fire Alarm Network Plan
First Floor Fire Alarm Network Plan
Ground Floor CCTV Network Plan

Temporary Waste Store

Treatment Hall

Washing Areas

Vehicles Washing

Dirty Change Cloth Wash

Cloth Dry

Shower

W. P.

MDB

Buffet

Shower

Guard

Dirty Change Cloth Wash

Wash Cloth Dry

Disinfected Store

Drying

Containers

Mechanical Room

Ground Floor CCTV Network Plan

Preliminary Design

CLIENT:

CONSULTANT:

PROJECT NAME:

Constructing of Medical Waste Treatment Facility in Gaza and North Governorates

RFQ-PAL0000102364

DRAWING TITLE:

Ground Floor CCTV Network Plan

DRAWING NO.:

MWTF-E-011

DRAWING SN:

SCALE:

DATE:

August 2020
Earthing Pit

3X19mm Diam. Earthing Electrodes at ground level

(50)mm2 Cu

L.T. Earthing Bar

1x50mm2 Cu From Earthing Pit

MWTF-E-013

EARTHING SYSTEM
Main Distribution Board (MDB)
External Lighting Single Line Diagram and DB-ExL
Distribution Boards DB-GF, DB-FF, DB-UV
Constructing of Medical Waste Treatment Facility in Gaza and North Governorates

RFQ-PAL0000102364

MECHANICAL DRAWINGS
MWTF-ME-001 → MWTF-ME-018
## Mechanical Drawings List

<table>
<thead>
<tr>
<th>Drawing #</th>
<th>Drawing Title</th>
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<tbody>
<tr>
<td>MWTF-ME-001</td>
<td>Architectural Drawings List</td>
</tr>
<tr>
<td>MWTF-ME-002</td>
<td>Ground Floor Drainage</td>
</tr>
<tr>
<td>MWTF-ME-003</td>
<td>First Floor Drainage</td>
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<tr>
<td>MWTF-ME-004</td>
<td>Roof Floor Drainage</td>
</tr>
<tr>
<td>MWTF-ME-005</td>
<td>General Details</td>
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<td>MWTF-ME-006</td>
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<td>MWTF-ME-014</td>
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<td>MWTF-ME-016</td>
<td>Firefighting Water Diagram</td>
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<td>MWTF-ME-017</td>
<td>General Details</td>
</tr>
<tr>
<td>MWTF-ME-018</td>
<td>High Pressure Network</td>
</tr>
</tbody>
</table>

### Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RD</td>
<td>ROOF DRAIN</td>
</tr>
<tr>
<td>FD</td>
<td>FLOOR DRAIN</td>
</tr>
<tr>
<td>SPD</td>
<td>S/TRAP F - DRAIN</td>
</tr>
<tr>
<td>MH</td>
<td>MANHOLE</td>
</tr>
<tr>
<td>CWS</td>
<td>COLD WATER SUPPLY</td>
</tr>
<tr>
<td>HWS</td>
<td>HOT WATER SUPPLY</td>
</tr>
<tr>
<td>WDB</td>
<td>WATER DISTRIBUTION BOX</td>
</tr>
<tr>
<td>RWP</td>
<td>Rain Water Pipe</td>
</tr>
<tr>
<td>WWP</td>
<td>Waste Water Pipe</td>
</tr>
<tr>
<td>SWP</td>
<td>Sewage Water Pipe</td>
</tr>
</tbody>
</table>
Observation Office
Office Manager
Meeting Room
Buffet
Toilets

FOR TENDER ONLY

CONSULTANT:
CLIENT:
PROJECT NAME:
Constructing of Medical Waste Treatment Facility in Gaza and North Governorates
ITB No.:
DRAWING TITLE:
First Floor Drainage
DRAWING NO.:
MWTF-ME-003
SCALE:
1:100
DATE:
JULY 2020

MWTF-ME-003 First Floor Drainage
1:100
FOR TENDER ONLY

CONSULTANT:

CLIENT:

PROJECT NAME:
Constructing of Medical Waste Treatment Facility in Gaza and North Governorates

ITB No.:

DRAWING TITLE:
Roof Floor Drainage

DRAWING NO.:
MWTF-ME-004

SCALE:
1:100

DATE:
JULY 2020
FOR TENDER ONLY

CLIENT: Constructing of Medical Waste Treatment Facility in Gaza and North Governorates

PROJECT NAME: NTS

ITB No.: MWTF-ME-007

DRAWING TITLE: General Details

DRAWING SN: NTS

SCALE: JULY 2020

SEWER GENERAL CHAMBER DETAILS
From Exiting Well Beside The Site
FOR TENDER ONLY

CLIENT: [Client Name]
CONSULTANT: [Consultant Name]
PROJECT NAME: Constructing of Medical Waste Treatment Facility in Gaza and North Governorates
ITB No.: MWTF-ME-012
DRAWING TITLE: General Details
DRAWING NO.: MWTF-ME-012
DRAWING SN: NTS
SCALE: 1:20
DATE: JULY 2020

GROUND WATER TANKS

- Overflow Line (1"")
- To Roof Water Tanks
- To Fire Fighting Pumps
WATER DIAGRAM

PIPE THROUGH CONCRETE WATER TANK DETAIL

FLOOR TRAP 4/4" DETAIL

PIPE SLEEVE DETAIL

FOR TENDER ONLY

CLIENT: [Client Name]
CONSULTANT: [Consultant Name]
PROJECT NAME: Constructing of Medical Waste Treatment Facility in Gaza and North Governorates
ITB No.: [ITB Number]
DRAWING TITLE: General Details
DRAWING NO.: MWTF-ME-013
DRAWING SN: NTS
SCALE: NTS
DATE: JULY 2020
Temporary Waste Store
Treatment Hall
Spare Part Storage Containers Washing Disinfected Store
Shower
Change Cloth Wash Cloth Dry

FOR TENDER ONLY

CLIENT: CONSIGNENT:

PROJECT NAME: Constructing of Medical Waste Treatment Facility in Gaza and North Governorates

DRAWING TITLE: Ground Floor FireFighting

DRAWING SN: MWTF-ME-014

DRAWING NO.: MWTF-ME-014

DATE: JULY 2020

SCALE: 1:100
Ground FLOOR

Boosters Pumps: Q=7m³/HR@H=5 Bar.
Jockey Pumps: Q=2 m³/HR@H=5.5 Bar.

FIRE FIGHTING MAIN PUMPS NO:01
4 One Jockey Pumps

FOR TENDER ONLY

CLIENT: 
CONSULTANT: 
PROJECT NAME: Constructing of Medical Waste Treatment Facility in Gaza and North Governorates
ITB No.:
DRAWING TITLE: Firefighting Water Diagram
DRAWING NO: MWTF-ME-016
DRAWING SCALE: NTS
DATE: JULY 2020