ITB-PAL0000123905 - Construction of Solar Energy System
For
Khan Younis Waste Water Treatment Plant
(KY WWTP)

Tender Documents
Drawings

Executing Entity: UNDP
Employer:
January 2021

Consultant
EMCC
# PV PLANT

<table>
<thead>
<tr>
<th>DRAWING NAME</th>
<th>DRAWING NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLANT-LAYOUT</td>
<td>P-01</td>
</tr>
<tr>
<td>PHASES- MARKING</td>
<td>P-02</td>
</tr>
<tr>
<td>INVERTER MARKING</td>
<td>P-03</td>
</tr>
<tr>
<td>EARTHING &amp; LIGHTNING</td>
<td>P-04</td>
</tr>
<tr>
<td>LIGHTNING COVERAGE</td>
<td>P-05</td>
</tr>
<tr>
<td>Trenching-Layout</td>
<td>P-06</td>
</tr>
<tr>
<td>LV-Cables-Route</td>
<td>P-07</td>
</tr>
<tr>
<td>Medium Voltage Layout</td>
<td>P-08</td>
</tr>
<tr>
<td>MV-SLD</td>
<td>P-09</td>
</tr>
<tr>
<td>SLD</td>
<td>P-10</td>
</tr>
<tr>
<td>Micro Grid SLD</td>
<td>P-11</td>
</tr>
</tbody>
</table>
Definitive Inverters Layout

(Phase Marking)
<table>
<thead>
<tr>
<th>Drawing No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-11</td>
<td>Cleanining System Details</td>
</tr>
<tr>
<td>L-10</td>
<td>Water Tanks Shed Details-B</td>
</tr>
<tr>
<td>L-09</td>
<td>Water Tanks Shed Details-A</td>
</tr>
<tr>
<td>L-08</td>
<td>Steel Structure Unit Details-B</td>
</tr>
<tr>
<td>L-07</td>
<td>Steel Structure Unit Details-A</td>
</tr>
<tr>
<td>L-06</td>
<td>Entrance Gate Details</td>
</tr>
<tr>
<td>L-05</td>
<td>Fence Details</td>
</tr>
<tr>
<td>L-04</td>
<td>Internal Road Details</td>
</tr>
<tr>
<td>L-03</td>
<td>Cleaning System Network</td>
</tr>
<tr>
<td>L-02</td>
<td>Site Layout</td>
</tr>
<tr>
<td>L-01</td>
<td>Existing Levels</td>
</tr>
</tbody>
</table>

**Site Plan Details**
<table>
<thead>
<tr>
<th>Drawing No</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TR-01</td>
<td>Ground Floor Plan</td>
</tr>
<tr>
<td>TR-02</td>
<td>Elevations &amp; Sections</td>
</tr>
<tr>
<td>TR-03</td>
<td>Structural Drawings</td>
</tr>
<tr>
<td>TR-04</td>
<td>Structural Drawings</td>
</tr>
<tr>
<td>TR-05</td>
<td>Fire &amp; Rainwater Drainage Plan</td>
</tr>
<tr>
<td>TR-06</td>
<td>Electrical Drawings</td>
</tr>
<tr>
<td>TR-07</td>
<td>Details - 1</td>
</tr>
<tr>
<td>TR-08</td>
<td>Details - 2</td>
</tr>
<tr>
<td>TR-09</td>
<td>Details - 3</td>
</tr>
</tbody>
</table>
# Admin Building Drawings

<table>
<thead>
<tr>
<th>DRAWING NAME</th>
<th>DRAWING NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCHITECTURE DRAWINGS</td>
<td>AD -01</td>
</tr>
<tr>
<td>ARCHITECTURE DRAWINGS</td>
<td>AD -02</td>
</tr>
<tr>
<td>STRUCTURAL DRAWINGS</td>
<td>AD -03</td>
</tr>
<tr>
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<td>AD -04</td>
</tr>
<tr>
<td>MECHANICAL DRAWINGS</td>
<td>AD -05</td>
</tr>
<tr>
<td>ELECTRICAL DRAWINGS</td>
<td>AD -06</td>
</tr>
<tr>
<td>WINDOWS DETAILS</td>
<td>AD -07</td>
</tr>
<tr>
<td>WOOD DETAILS</td>
<td>AD -08</td>
</tr>
<tr>
<td>WOOD DOOR DETAILS</td>
<td>AD -09</td>
</tr>
<tr>
<td>STEEL DOOR SEEPAGE PIT DETAILS</td>
<td>AD -10</td>
</tr>
<tr>
<td>DOORS AND WINDOWS TABLE &amp;DETAILS</td>
<td>AD -11</td>
</tr>
<tr>
<td>GENERAL DETAILS</td>
<td>AD -12</td>
</tr>
</tbody>
</table>
**POST COLUMN DETAILS**

**Columns Details**
1:25

**Typical Lentils & Sills Details**
1:25

**NOTES:**

1. Solid Slab Thickness TH=20cm as mentioned on plan.
2. Mesh T12@20cm bottom both ways.
3. Mesh T12@20cm top both ways.
4. Only extra reinforcement are shown on plan.
5. Provide #11B@ top & bot around all openings.
6. Slab boundaries to be confirmed from Arch. des.
Note:
1. Vitrous China wash basin (45x38cm), completed with chrome plated mixer,
2. Vitrous China, European type W.C. First Class, completed with 2.5 Gallon Vitrous China flush reservoir,
3. PEX pipes (16mm Dia. & 25mm Dia.)
WOOD DOOR DETAILS
### DOORS SCHEDULE

<table>
<thead>
<tr>
<th>Type</th>
<th>SD</th>
<th>WD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
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</table>

### WINDOWS SCHEDULE

<table>
<thead>
<tr>
<th>Type</th>
<th>AW</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>01</td>
</tr>
</tbody>
</table>

### Notes
- All works: Galvanized Steel and Hummer paint

---

**Detail (A)**

Detail of Steel Protection

Scale 1:25

**Detail (C)**

Section C-C

Scale 1:50
Drawing NO.

CONSULTANT

RFP No.:

Date:

Drawing Title:

Project Name:

Notes:

Checked

Design

Provision of Detailed Design and Technical Assistance Services for the Construction of Solar Energy System for Khan Younis Waste Water Treatment Plant (KY WWTP)

Client

EMCC

GENERAL DETAILS

AS DRAWINGS

Admin Building

WOOL DYE 9

STEAM TUBE 1

STEAM TUBE 2

WATER TUBE

STEAM TUBE 3

WATER TUBE

STEAM TUBE 4

WATER TUBE

OFFICE OF FOREIGN AFFAIRS

MINISTRY OF FOREIGN AFFAIRS

PALESTINIAN AUTHORITY

PO BOX 1234

MAY 2020

ROOF COLD WATER TANKS & CONNECTIONS

FLOOR DRAIN INSTALLATION

TYPICAL FLOOR DRAIN CONNECTIONS
Rainwater Drainage Plan

Fire Plan

Auto Fire Extinguisher 2.5kg
(3kg) powder fire extinguisher
(2kg) (CO2) gas for fire extinguisher

Checked: Design

Assistance Services for the Construction of Solar Energy System for Khan Younis Waste Water Treatment Plant (KY WWTP)

TR  -05

MAY. 2020

EMCC
Notes
- Hardware locked type VERO (SWITCH) or equivalent,
  accessories, fittings, ironmongery, Stainless steel hinges,
  heavy handles (Doganlar or equivalent), bolts and
  all necessary parts needed to complete the works.
- All Steel paints are Hummer type

**DOORS SCHEDULE**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>SD</th>
<th>SW</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>

**WINDOWS SCHEDULE**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>SD</th>
<th>SW</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

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**Hardware locked type VERO (SWITCH) or equivalent, accessories, fittings, ironmongery, Stainless steel hinges, heavy handles (Doganlar or equivalent), bolts and all necessary parts needed to complete the works.**

**Notes**
- All Steel paints are Hummer type.
# Transformers Building

<table>
<thead>
<tr>
<th>DRAWING NAME</th>
<th>DRAWING NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Existing &amp; demolish plan</td>
<td>TRF - 01</td>
</tr>
<tr>
<td>Partitions &amp; Trenches</td>
<td>TRF - 02</td>
</tr>
<tr>
<td>Details</td>
<td>TRF - 03</td>
</tr>
<tr>
<td>Electrical Installations</td>
<td>TRF - 04</td>
</tr>
<tr>
<td>DRAWING NAME</td>
<td>DRAWING NO.</td>
</tr>
<tr>
<td>------------------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Ground Floor Layout</td>
<td>GR - 01</td>
</tr>
<tr>
<td>Rainwater &amp; Elevation.</td>
<td>GR - 02</td>
</tr>
<tr>
<td>Elevation.</td>
<td>GR - 03</td>
</tr>
<tr>
<td>Sections</td>
<td>GR - 04</td>
</tr>
<tr>
<td>Details -1</td>
<td>GR - 05</td>
</tr>
<tr>
<td>Details -2</td>
<td>GR - 06</td>
</tr>
<tr>
<td>Details -3</td>
<td>GR - 07</td>
</tr>
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<td>Details -4</td>
<td>GR - 08</td>
</tr>
<tr>
<td>Electrical Installations-1</td>
<td>GR - 09</td>
</tr>
<tr>
<td>Electrical Installations-2</td>
<td>GR - 10</td>
</tr>
<tr>
<td>Site Layout and Fuel Tanks</td>
<td>GR - 11</td>
</tr>
<tr>
<td>Columns &amp; Foundation Layouts</td>
<td>GR - 12</td>
</tr>
<tr>
<td>Floor &amp; Roof Layouts</td>
<td>GR - 13</td>
</tr>
<tr>
<td>STR Details-1</td>
<td>GR - 14</td>
</tr>
<tr>
<td>STR Details-2</td>
<td>GR - 15</td>
</tr>
</tbody>
</table>
Rainwater Drainage Plan

Rainwater & Elevation.

Drawing NO. CONSULTANT
RFP No. Date:
Drawing Title: Project Name:

Checked Design
Provision of Detailed Design and Technical

Donor: Client AS DRAWINGS
Generator Room
Sections

Drawing NO.: 0000093741

Date: Jan. 2021

Drawing Title: Assistance Services for the Construction of Solar Energy System for Khan Younis Waste Treatment Plant (KY WWTP)

Donor: Norwegian Ministry of Foreign Affairs

Client: EMCC

Design: EMCC

Checked: EMCC

Drawing NO.: G0R 08

Scale: AS (UNMARKED)

Date: Jan, 2021
Details - 2

Drawing No.:

CONSULTANT:

RFP No.:

Date:

Drawing Title:

Project Name:

Notes:

Checked:

Design:

Provision of Detailed Design and Technical Assistance Services for the Construction of Solar Energy System for Khan Younis Waste Water Treatment Plant (KY WWTP)

Client:

EMCC

AS DRAWINGS

Generator Room

Elevation

Section B-B

Scale 1:25

STEEL DOOR (SD001)

Section A-A

Scale 1:25

Detail 1

Scale 1:5
STEEL WINDOWS (SW01)

Section A-A
Scale 1:25

Section B-B
Scale 1:25

Elevation
Scale 1:25

Donor
GR 07
EMCC
Scale
Jan., 2021

CONSULTANT
RFP No.
Date:
Drawing Title:
Project Name:
Notes:
Checked
Design
Provision of Detailed Design and Technical Assistance Services for the Construction of Solar Energy System for Khan Younis Waste Water Treatment Plant (KY WWTP)

Check that all notes are present and legible.
POWER PLAN FOR GEN BUILDING

FIRE ALARM SYSTEM PLAN FOR GEN BUILDING
Over Flow Tank Details
**General Notes:**

- All dimensions are in (mm) unless otherwise mentioned.

**Concrete Grade:**

- H-40
- M-30
- W-60

**Concrete Cover:**

- 150 mm (bottom layers)
- 100 mm (top layers)

**Concrete Protection:**

- Concrete up to height 1000 mm above the top level of the foundation

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**Typical Footing Details**

**SCALE 1:25**

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**Footing F1 Details**

**SCALE 1:25**

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**Typical Trenches Details**

**SCALE 1:25**

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**Generator Base Details**

**SCALE 1:25**

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**ROOF SLAB NOTES:**
- Solid slab thickness 100-220mm as mentioned on plan
- Wall 120x120 on bottom both ways
- Wall 120x120 on top both ways
- Extra reinforcement is shown on plan
- Provide 50k top & cast around all openings
- Slab boundaries to be confirmed from Act-Drum

**Columns Details**
1:25

**Typical Lentils & Sills Details**
1:25

**Beam-1**
1:25

**Beam-2**
1:25

**Beam-3**
1:25

**POST COLUMN DETAILS**
1:25
Demolish the existing (Concrete & Block) insulation

Existing Plan

Main Dismantle, Demolish works

Existing & demolish plan

Checked

Scale: 1:100

Project Name: Provision of Detailed Design and Technical Assistance Services for the Construction of Solar Energy System for Khan Younis Water Treatment Plant (KY WWTP)

Donor: PAL-0000093741

Client: EMCC

Drawing NO.: TRF-J1

Date: JAN. 2021

Provision of Detailed Design and Technical Assistance Services for the Construction of Solar Energy System for Khan Younis Water Treatment Plant (KY WWTP)
New block wall

See new 2mm galvanized steel sheet to cover the leaves of the existing door.

NEW

Concrete Cable Trench according to the Drawings

13200

8200

220

220

SF6

265cm*75cm

M.V

L.V

500

B

C

A

N

B

C

A

1600KVA

220cm*130cm

NEW

NEW

B

C

A

N

B

C

A

1600KVA

220cm*130cm

TRANSFORMER ROOM

1998

1999

1800

500

500

500

500

L.V PANEL

3900

1900

8660

200

200

Store

12760

200

1800

8660

SD

SD

01

01

Auto Fire Extinguisher 2.5kg

Fire extinguisher

(5kg) powder fire extinguisher

(6kg) (BCF) gas fire extinguisher

Partitions & Trenches

Drawing NO.

CONSULTANT

RFP No.:

Date:

Drawing Title:

Project Name:

Notes:

Checked

Design

Scale:

Donor

PAL: 00000003161

EMCC

2021

TRF 022

EMCC

Rev

EMCC

JAN, 2021

Technical Design Services for the Construction of Solar Energy System for Khan Younis Waste Water Treatment Plant (KY WWTP)
LIGHTING & POWER PLAN FOR TRF BUILDING

Section 1 - 1

Details (1 - 1)

Oil Manhole/each transformer

120 - 800 - 120
# LIGHTING Drawings

<table>
<thead>
<tr>
<th>DRAWING NAME</th>
<th>DRAWING NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EX. LIGHTING &amp; CAMERA LAYOUT</td>
<td>E-01</td>
</tr>
<tr>
<td>STEEL POLE DETAILS</td>
<td>E-02</td>
</tr>
<tr>
<td>POLE BASE DETAILS</td>
<td>E-03</td>
</tr>
<tr>
<td>CONTROL PANEL DETAILS</td>
<td>E-04</td>
</tr>
<tr>
<td>DISTRIBUTION BOARD DETAILS</td>
<td>E-05</td>
</tr>
<tr>
<td>CCTV/ MONITORING SYSTEM</td>
<td>E-06</td>
</tr>
</tbody>
</table>