SUPPLY AND INSTALLATION OF ROOF-TOP SOLAR PHOTOVOLTAIC SYSTEMS ON SCHOOLS IN GAZA STRIP

Tender Ref.: PZA1203211-10026

LOT 2 SCHOOLS
ABU ZAR EL GEFARI SCHOOL, KHALIL ELNOBANI HIGH SCHOOL, MOHAMMED EL NAGAR HIGH SCHOOL, EL MOTANABI HIGH SCHOOL, OM EL FAHEM HIGH SCHOOL

Contracting Authority: Enabel

Designed by: Ministry of Education

MAY 2023
SUPPLY AND INSTALLATION OF ROOF-TOP SOLAR PHOTOVOLTAIC SYSTEMS ON SCHOOLS IN GAZA STRIP

Project Name: Lot 2 - School Names:
Abu Zar El Ghafari School
Khalil El Nobani High School
Ahmed El Nagar School
Elmoutanabi High School
Om El Fahem High School

Main From MDB XLPE 5x16sq. mm

MCCB (4x63A)

LTL Fuse 3x32/6A

6.6, 4x160A + PE

MTS 4x63Amp

6.6, 4x160A +

Notes:

Legend:

BELGIUM partner in development

Contracting Authority

Enable

Funded by

Project:
Lot 2 - School Names:
Abu Zar El Ghafari School
Khalil El Nobani High School
Ahmed El Nagar School
Elmoutanabi High School
Om El Fahem High School

Tender No.: PAT28231-10004

Designed by

Ministry of Education
SUPPLY AND INSTALLATION OF ROOF-TOP SOLAR PHOTOVOLTAIC SYSTEMS ON SCHOOLS IN GAZA STRIP

Project Name:
Lot 2 - School Names:
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- Ahmed El Nagar School
- Elmoutanabi High School
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3 P DC MCB 3x200 A
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Grounding Bonding Busbar

EARTHING MANHOLE DETAIL
SUPPLY AND INSTALLATION OF ROOF-TOP SOLAR PHOTOVOLTAIC SYSTEMS ON SCHOOLS IN GAZA STRIP

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Battery Bank
PV MDB
PV Inverters
Batteries Inverters

KWH
3PH
S
T
R
CABLE TRAY EXAMPLE DETAILS

- Hot dip galvanized Heavy Duty Steel Cable Tray (20cm width)
- With cover for DC and AC Cables

C. Steel Profile 40x40x2.7mm
Concrete Footing 50x30x20cm

20cmx8cm Covered perforated Cable Tray
For strings DC Cables

(1x50)mm² Cu

20cmx8cm Covered Cable Tray
For strings earthing Cables

Abbey: Abu Zar El Ghafari School
Khalil El Nobani High School
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SUPPLY AND INSTALLATION OF ROOF-TOP SOLAR PHOTOVOLTAIC SYSTEMS ON SCHOOLS IN GAZA STRIP

Project Name:
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SIDE VIEW
Scale 1:20

MOUNTING STEEL STRUCTURE FOR PV STRINGS (1/2)
SUPPLY AND INSTALLATION OF
ROOF-TOP SOLAR PHOTOVOLTAIC
SYSTEMS ON SCHOOLS IN GAZA STRIP

G. Steel Profile
Beam 60x60x2.7mm

G. Steel Profile
Column 60x60x2.7mm

G. Steel Profile
Bracing 40x40x2.7mm

Concrete Foundation
60x60x30cm

3-D VIEW OF A TYPICAL PART
OF THE MOUNTING STRUCTURE

MOUNTING STEEL STRUCTURE FOR PV STRINGS (2/2)
SUPPLY AND INSTALLATION OF ROOF-TOP SOLAR PHOTOVOLTAIC SYSTEMS ON SCHOOLS IN GAZA STRIP

Project Name: Lot 2 - School Names:
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- Elmoutanabi High School
- Om El Fahem High School

DETAiL 1

SECTION A-A

4MM WELDED CONNECTION

DETAIL 7

0.5 strip 4mm thick, 5 cm width, 40 cm long
Fixed to each stoke by jambo screw

Notes
**SUPPLY AND INSTALLATION OF ROOF-TOP SOLAR PHOTOVOLTAIC SYSTEMS ON SCHOOLS IN GAZA STRIP**

**Project Name:**
Lot 2 - School Names:
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**Details:**
- **DETAIL 2**
  - Scale 1:10
- **SECTION A-A**
  - Scale 1:15
  - 4mm Welded Connection
  - SM560x60x2.7
  - 4xM10 Bolts
  - Plates 250x250x4mm

- **DETAIL 6**
  - Scale 1:10
  - 0.5 strip 4mm thick, 5 cm width, 40 cm long
  - Fixed to each stone by jamb screw
  - 24.5 x 16.7 x 97.8