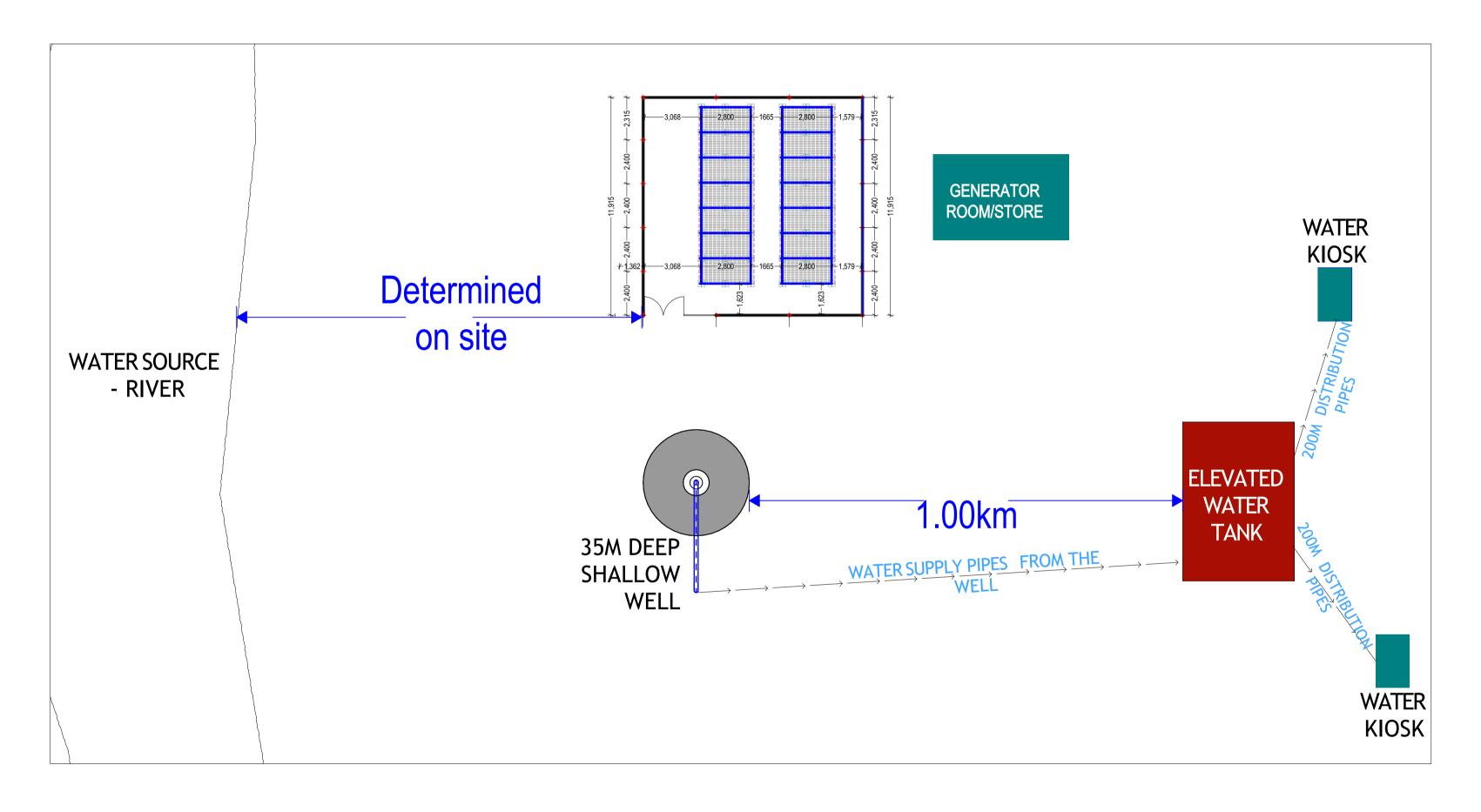


CONSTRUCTION OF MOTORIZED SHALLOW W ELL -QOOQANE VILLAGE -BELEDWEYNE DISTRICT-HIRSHABELLE STATE



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PROJECT

EXCAVATION OF SHALLOW WELLS

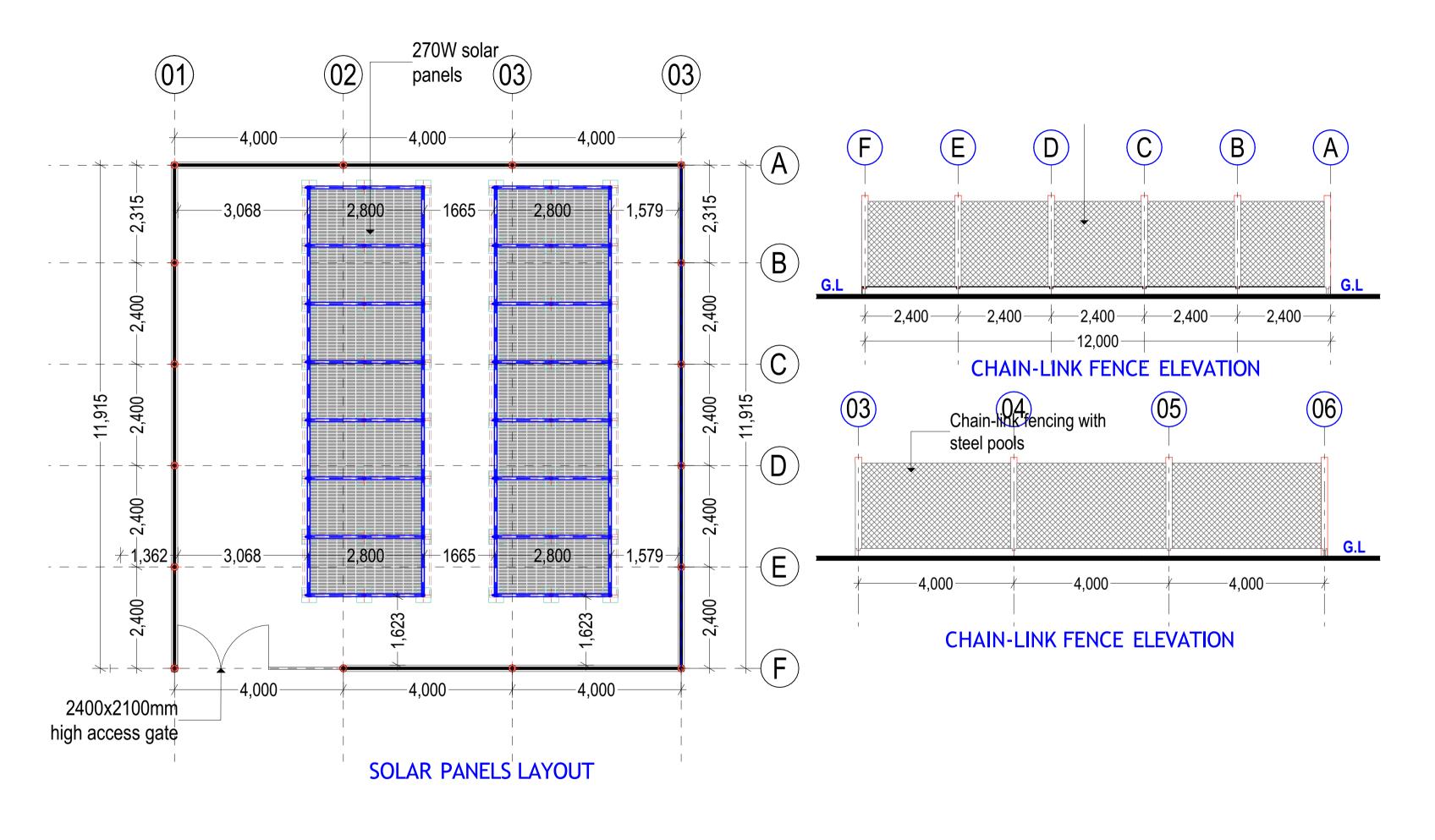


DEPARTMENT

WATER SANITATION AND HYGIENE **WASH**

SCALE		DRAWING TITLE:
DATE	NOV 2020	
		DRAWING Nº:
DESIGNED BY:	ENG. Wanja.D	
DRAWN BY:	ENG. Wanja.D	PROJECT Nº:
REVIEWED BY:		
APPROVED BY:		

SITE PLAN SHEET Nº:





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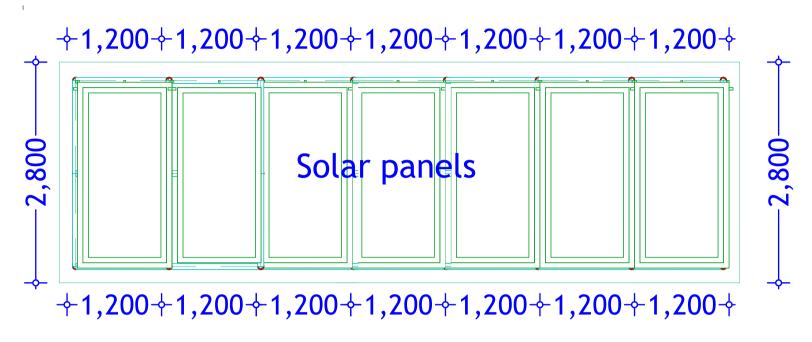


DEPARTMENT

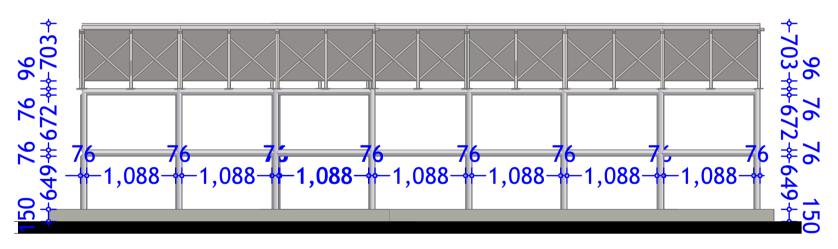
WATER SANITATION AND HYGIENE WASH

SCALE		DRAWING TITLE:
DATE	JUNE 2020	
		DRAWING Nº:
DESIGNED BY:	ENG. Wanja.D	
DRAWN BY:	ENG. Wanja.D	PROJECT Nº:
REVIEWED BY:		
APPROVED BY:		

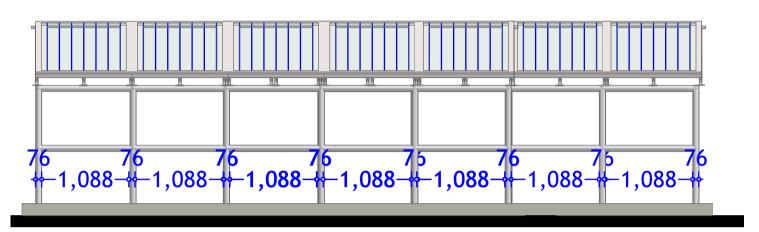
SOLAR LAYOUT



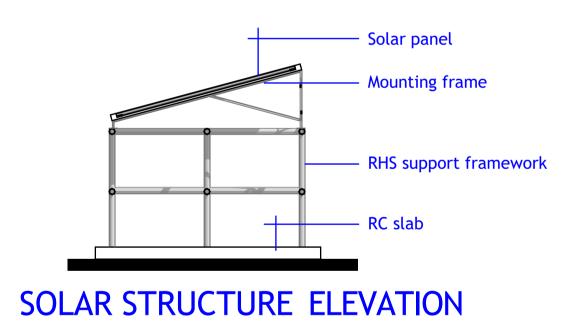
TYPICAL 7 NO. PANEL LAYOUT



SOLAR STRUCTURE ELEVATION



SOLAR STRUCTURE ELEVATION



GENERAL NOTES

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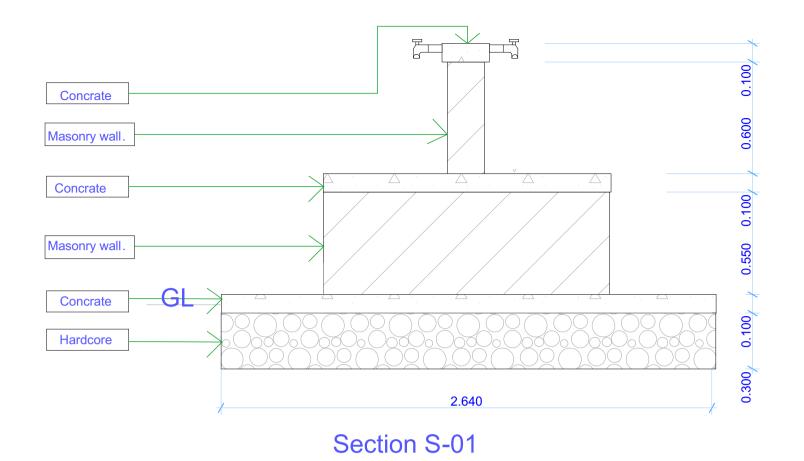


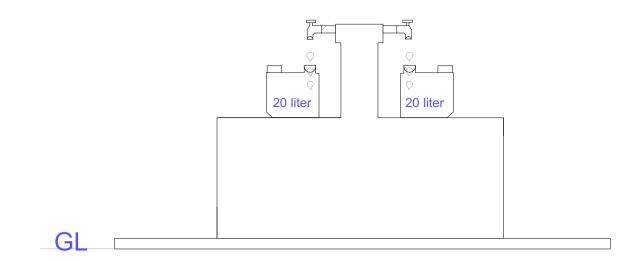
DEPARTMENT

WATER SANITATION AND HYGIENE WASH

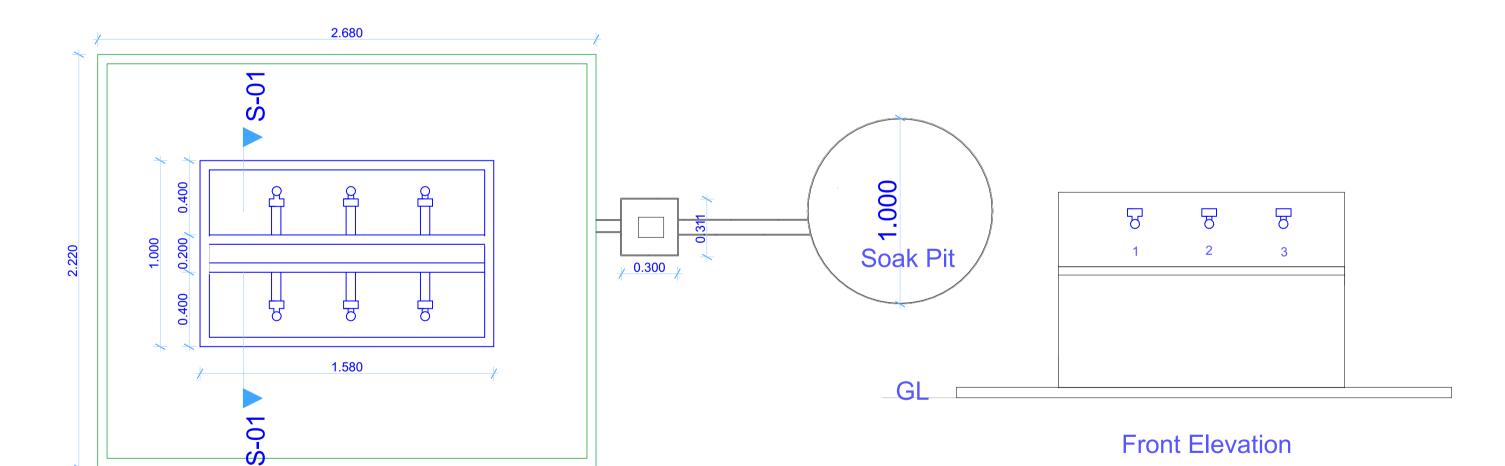
SCALE		DRAWING TITLE:
DATE	JUNE 2020	
		DRAWING Nº:
DESIGNED BY:	ENG. Wanja.D	
DRAWN BY:	ENG. Wanja.D	PROJECT Nº:
REVIEWED BY:		
APPROVED BY:		

S.STRUCTURE
DETAILS
SHEET Nº:





Side Elevation



Floor Plan

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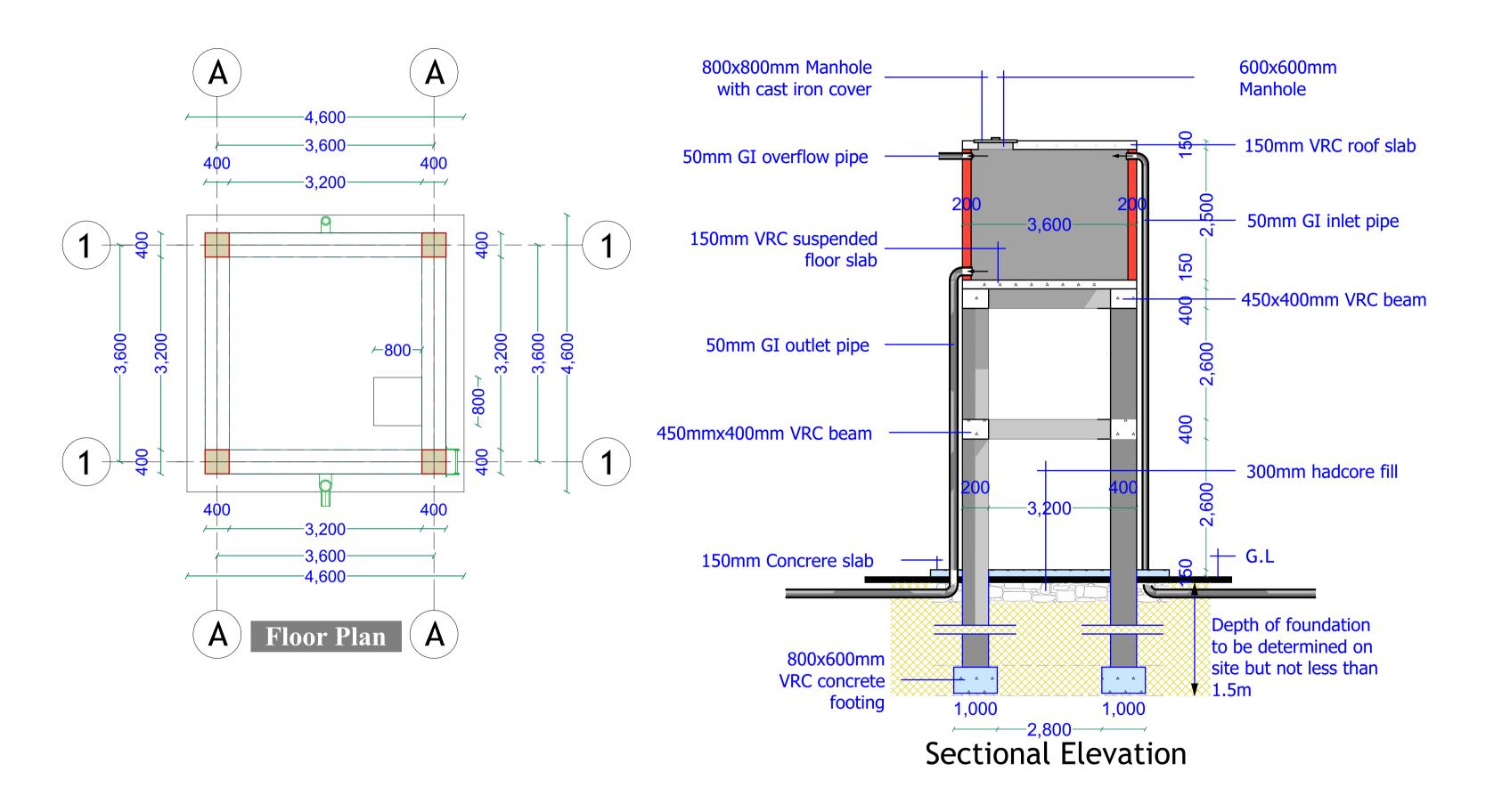
IMPLEMENTING AGENCY International Organization for Migration (IOM) The UN Migration Agency

DEPARTMENT

WATER SANITATION AND HYGIENE **WASH**

66415		DRAWING TITLE:
SCALE		DRAWING TITLE.
DATE	JUNE 2020	
		<u>DRAWING Nº:</u>
DESIGNED BY:	ENG. Wanja.D	
DRAWN BY:	ENG. Wanja.D	PROJECT Nº:
REVIEWED BY:		
APPROVED BY:		





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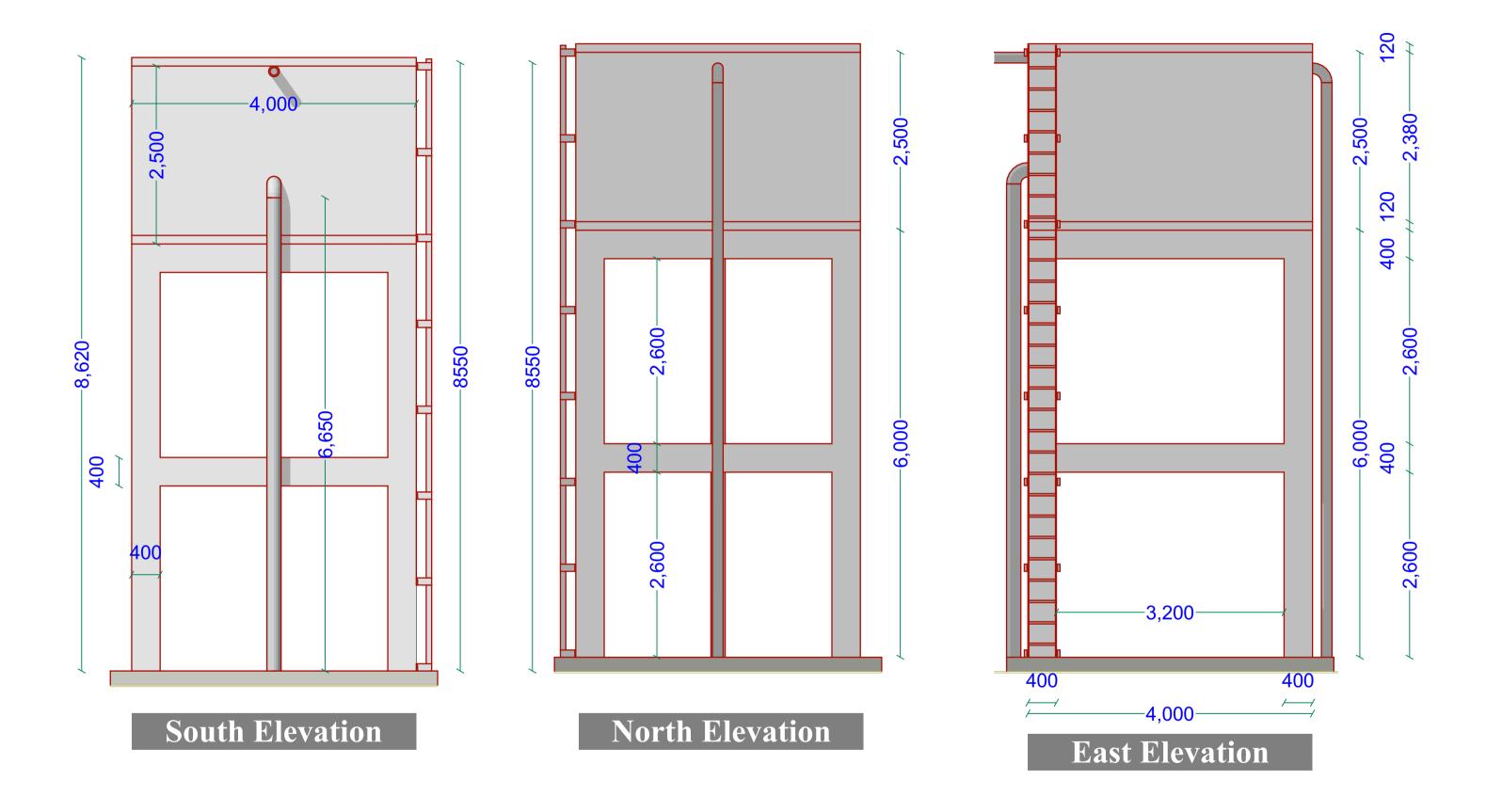


DEPARTMENT

WATER SANITATION AND HYGIENE WASH

SCALE		DRAWING TITLE:	
DATE	JUNE 2020		E
		<u>DRAWING N^o:</u>	_
DESIGNED BY:	ENG. Wanja.D		SH
DRAWN BY:	ENG. Wanja.D	PROJECT Nº:	
REVIEWED BY:			
APPROVED BY:			





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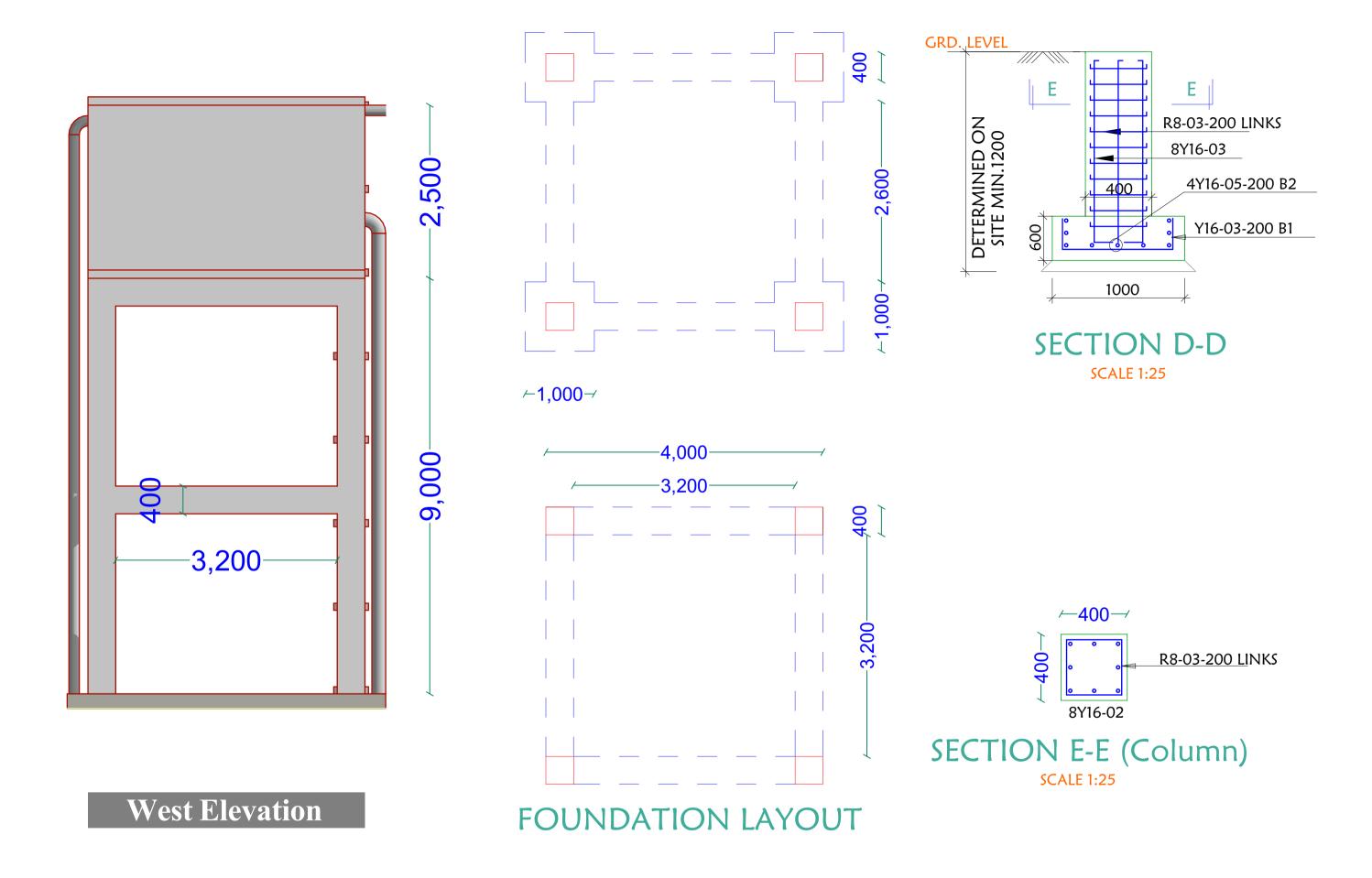


DEPARTMENT

WATER SANITATION AND HYGIENE **WASH**

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		DRAWING Nº:
DESIGNED BY:	ENG. Wanja.D	
DRAWN BY:	ENG. Wanja.D	PROJECT Nº:
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APPROVED BY:		





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PROJECT

EXCAVATION OF SHALLOW WELLS

IMPLEMENTING AGENCY International Organization for Migration (IOM)

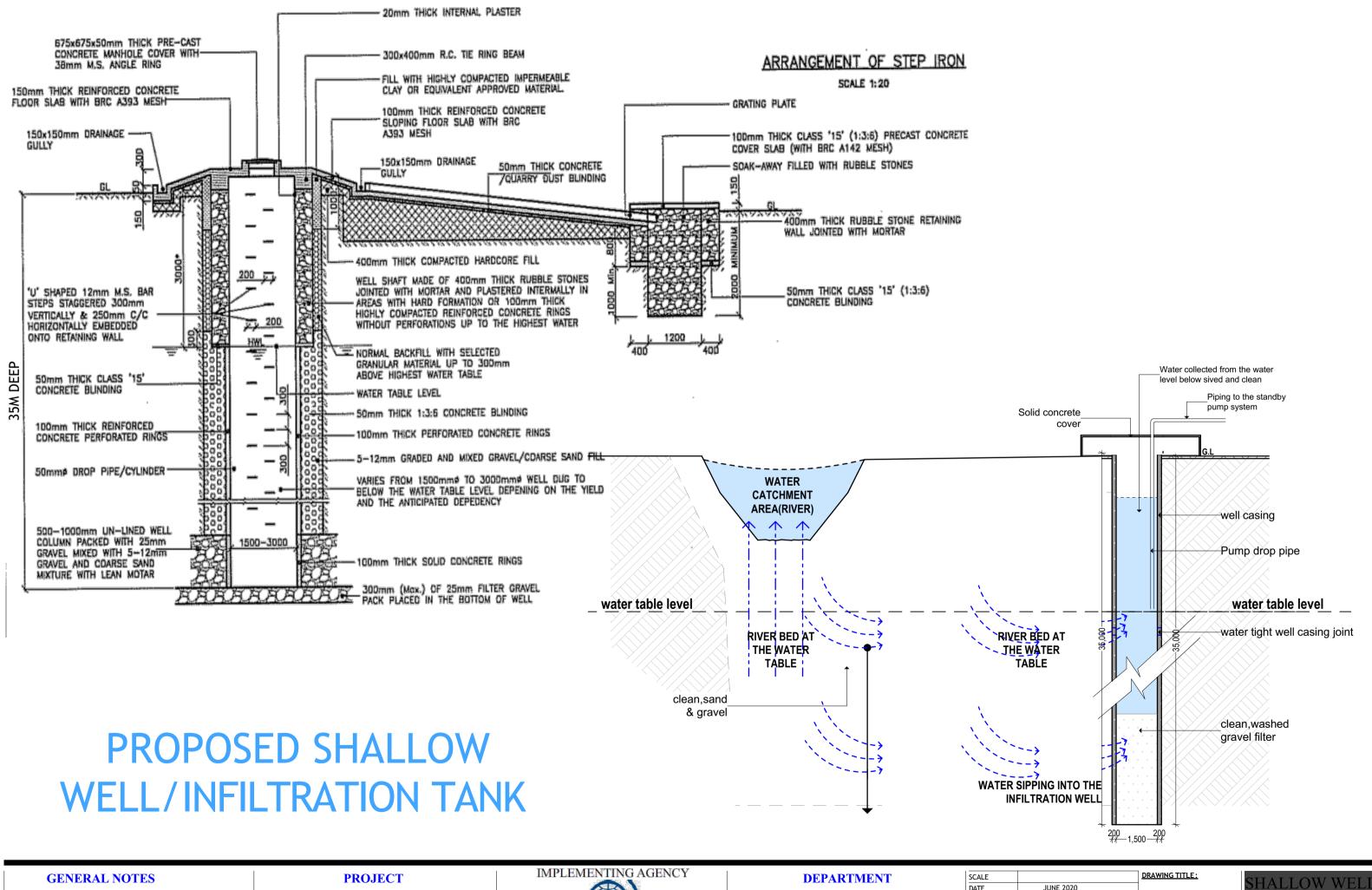
The UN Migration Agency

DEPARTMENT

WATER SANITATION AND HYGIENE **WASH**

SCALE		DRAWING TITLE:
DATE	JUNE 2020	
		DRAWING Nº:
DESIGNED BY:	ENG. Wanja.D	
DRAWN BY:	ENG. Wanja.D	PROJECT Nº:
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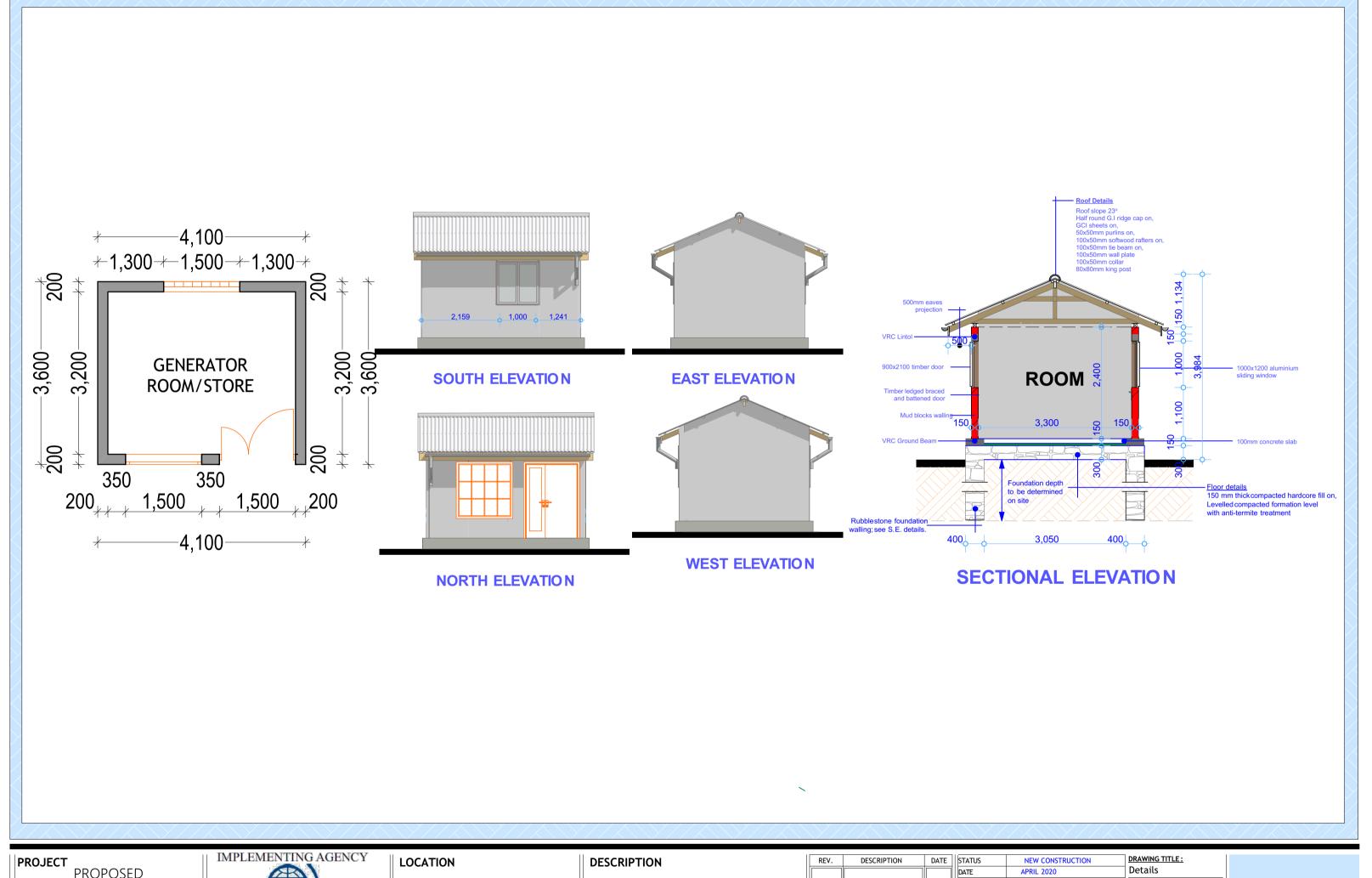
International Organization for Migration (IOM) The UN Migration Agency

DEPARTMENT

WATER SANITATION AND HYGIENE **WASH**

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DESIGNED BY:	ENG. Wanja.D	
DRAWN BY:	ENG. Wanja.D	PROJECT Nº:
REVIEWED BY:		
APPROVED BY:		

SHEET Nº:



PROJECT
PROPOSED
REHABILITATION/CONSTRUC
TION WORKS



<u>WASH</u> SUPPORTED ACTIVITIES IN SOMALIA

REV.	

STATUS NEW CONSTRUCTION DRAWING TITLE:

DATE APRIL 2020

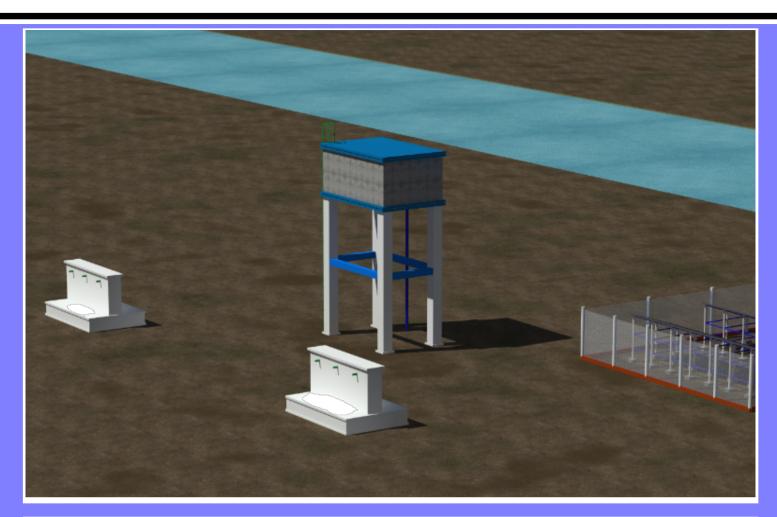
DESIGNED BY: ENG. WANJA D.

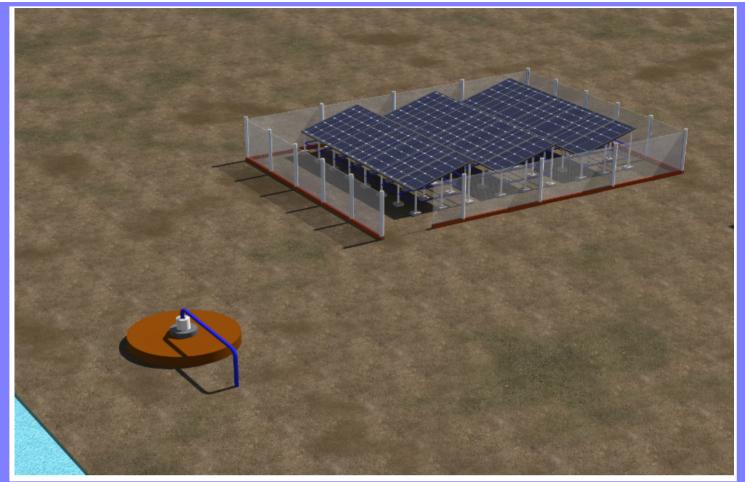
DRAWN BY: ENG. WANJA D.

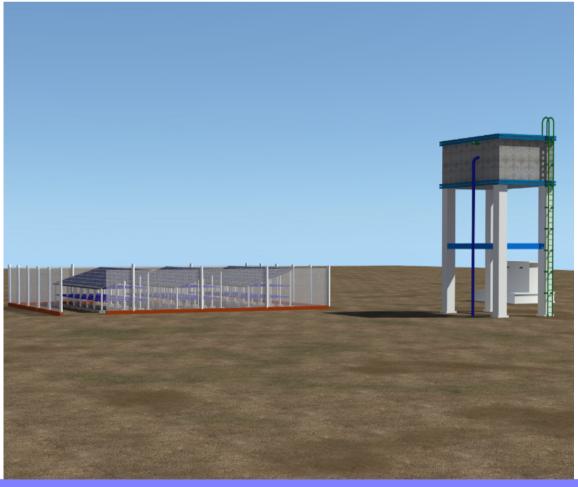
REVIEWED BY:

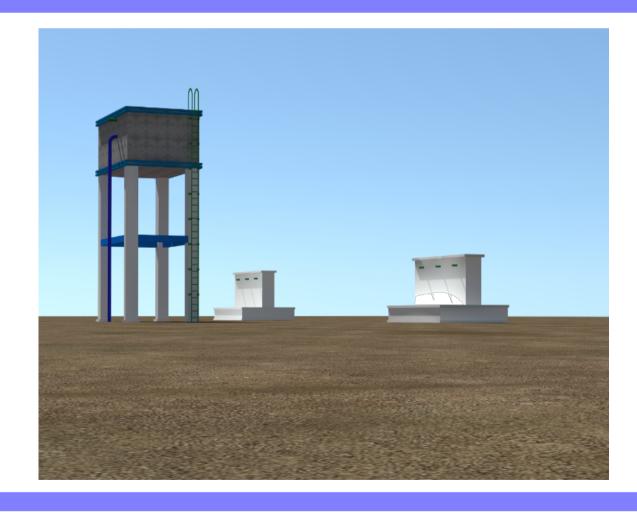
APPROVED BY: DR. O. KHYARE

I<u>EET Nº:</u>









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IMPLEMENTING AGENCY International Organization for Migration (IOM) The UN Migration Agency

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DATE	JUNE 2020	
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DESIGNED BY:	ENG. Wanja.D	
DRAWN BY:	ENG. Wanja.D	PROJECT Nº:
REVIEWED BY:		
APPROVED BY:		



SHEET No:



PS2-1800 C-SJ8-7

Solar Submersible Pump System for 4" wells

System Overview

Head max. 40 m Flow rate max. 13 m³/h

Technical Data

Controller PS2-1800

Controlling and monitoring

Control inputs for dry running protection, remote control etc.

Protected against reverse polarity, overload and overtemperature

Integrated MPPT (Maximum Power Point Tracking)
Battery operation: Integrated low voltage disconnect

Integrated Sun Sensor

 Power
 max. 1,8 kW

 Input voltage
 max. 200 V

 Optimum Vmp**
 > 102 V

 Motor current
 max. 14 A

 Efficiency
 max. 98 %

 Ambient temp.
 -40...50 °C

 Enclosure class
 IP68

Motor ECDRIVE 1200-C / ECDRIVE 1800-C

Maintenance-free brushless DC motor

Water filled

Premium materials, stainless steel: AISI 304/316

No electronics in the motor

Rated power 1,7 kW
Efficiency max. 92 %
Motor speed 900...3 300 rpm
Insulation class F
Enclosure class IP68
Submersion max. 150 m

Pump End PE C-SJ8-7

Non-return valve

Premium materials, stainless steel: AISI 304

Optional: dry running protection

Centrifugal pump



Pump Unit PU1800 C-SJ8-7 (Motor, Pump End)

Borehole diameter min. 4,0 in Water temperature max. 50 °C

Standards



2006/42/EC, 2004/108/EC, 2006/95/EC

IEC/EN 61702:1995

The logos shown reflect the approvals that have been granted for this product family. Products are ordered and supplied with the approvals specific to the market requirements.

**Vmp: MPP-voltage under Standard Test Conditions (STC): 1000 W/m² solar irradiance, 25 °C cell temperature





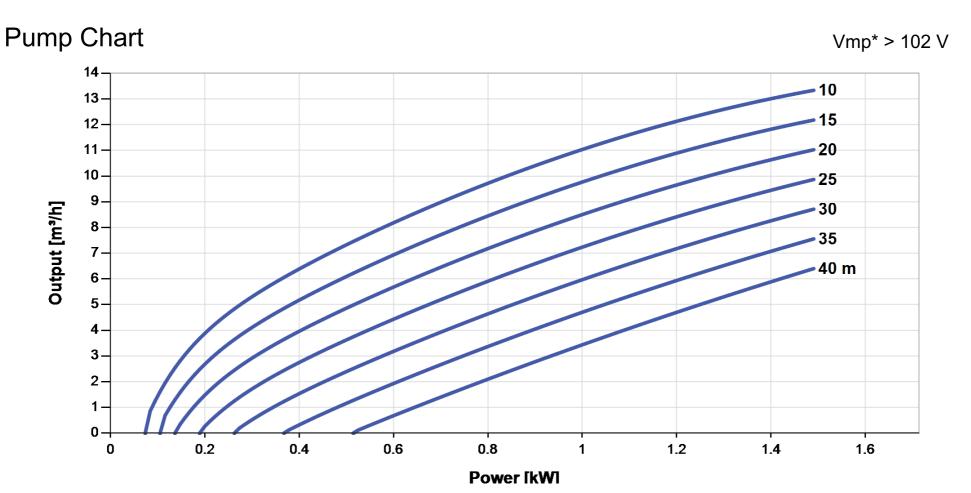
BERNT LORENTZ GmbH & Co. KG

Siebenstuecken 24, 24558 Henstedt-Ulzburg,

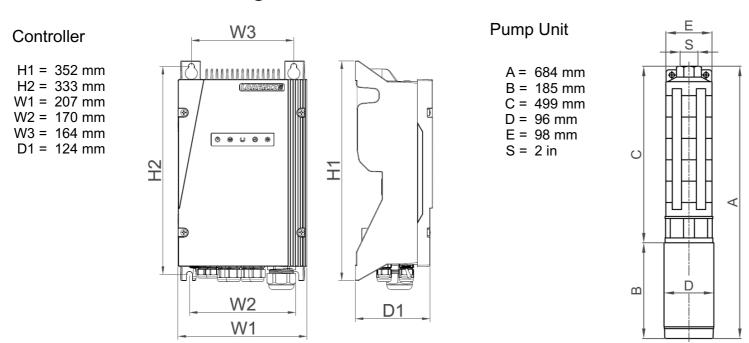


PS2-1800 C-SJ8-7

Solar Submersible Pump System for 4" wells



Dimensions and Weights



	Net weight
Controller	6,0 kg
Pump Unit	14 kg
Motor	7,0 kg
Pump End	6,5 kg

^{*}Vmp: MPP-voltage under Standard Test Conditions (STC): 1000 W/m² solar irradiance, 25 °C cell temperature





