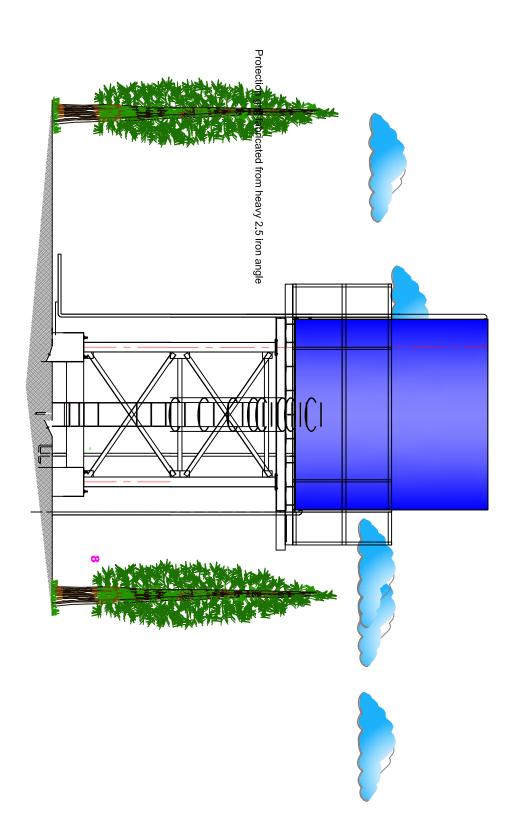
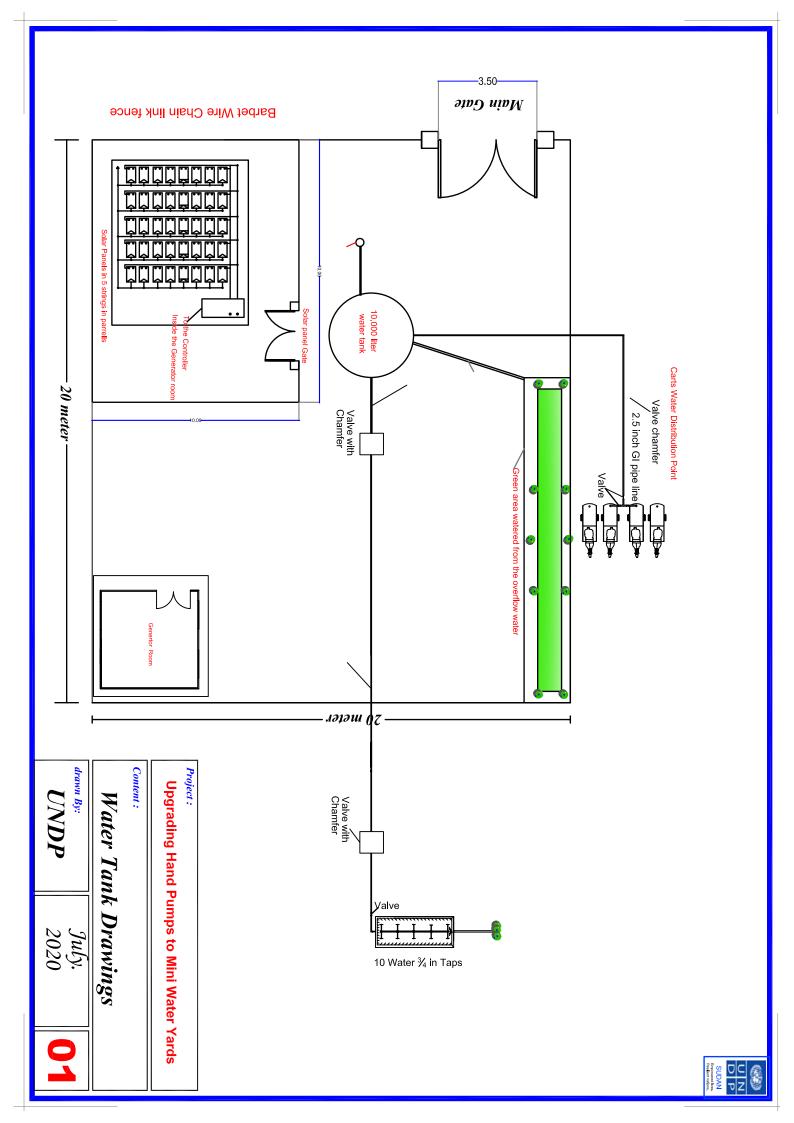
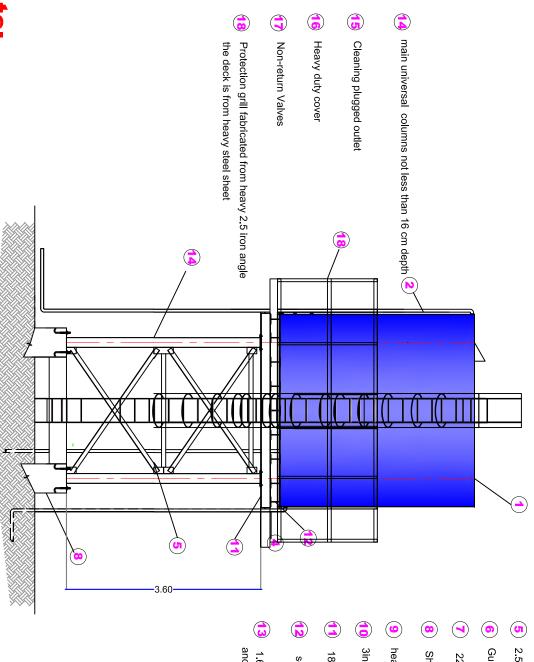
## Set of Drawings for Upgrading 2 hand Pumps to Mini Water Yard



Elhigair -Abukarshola Locality - Kordofan State Maflou -Talodi Locality - Kordofan State







- 10,000 litre heavy duty Plastic Water tank
- 2.0-2.5 inch Inlet Galvanized steel pipe (to be adjusted after pumping test)

N

- Internal antirust steel ladder
- 3.0 inch outlet Galvanized steel pipe

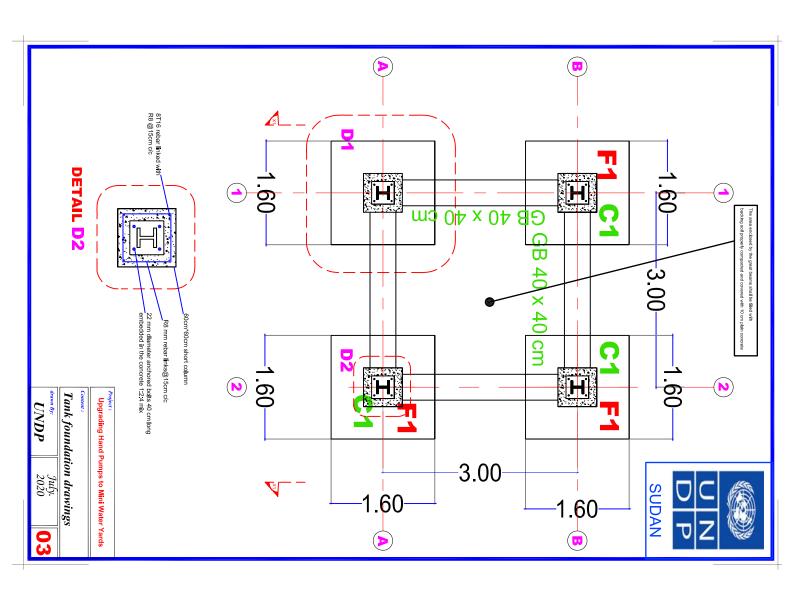
4

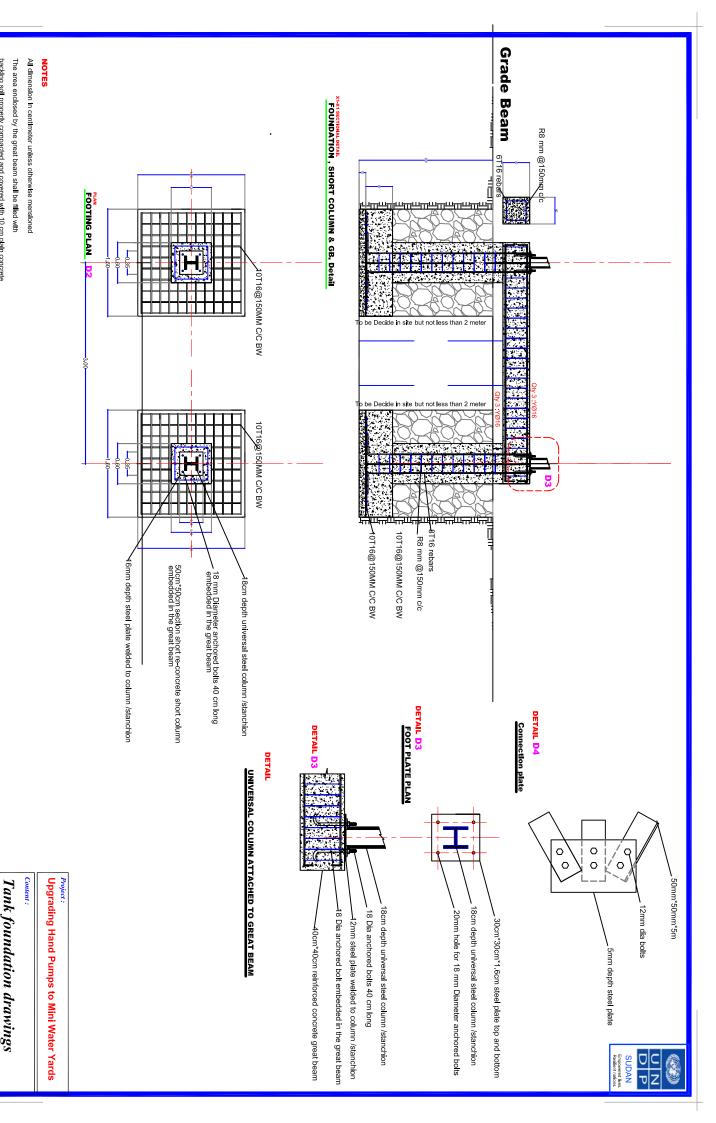
- 2.5 inch steel angle bracing
- Gusset plate connection
- 22 Diameter anchored bolts 40 cm long embedded in great beam re-concrete
- Short column
- heavy duty steel ladder with safety grail
- 3inch galvanized steel overflow pipe to drainage channel
- 18cm main universal beams
- secondary universal beams not less than 14 cm
- and the 20cm main universal column 1.6 cm steel plates attaching the to 20 cm universal beam

**Upgrading Hand Pumps to Mini Water Yards** 

**Elevated Tank Details** 

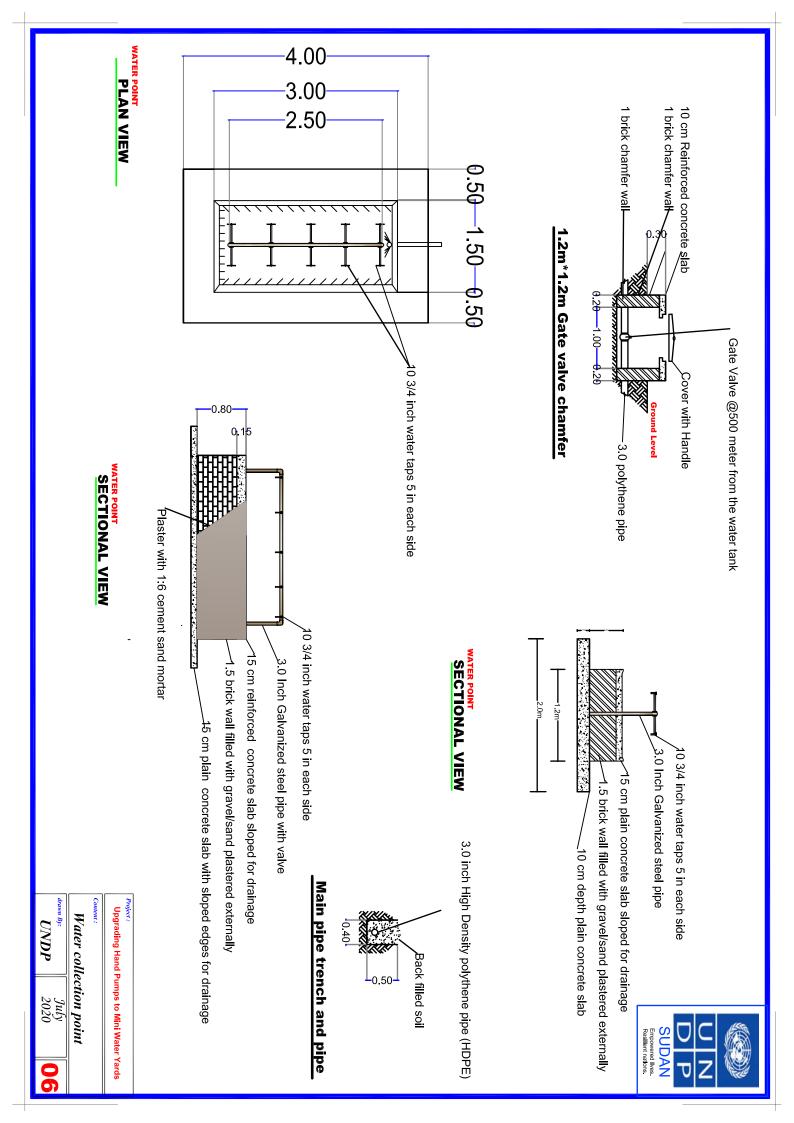
July 2020



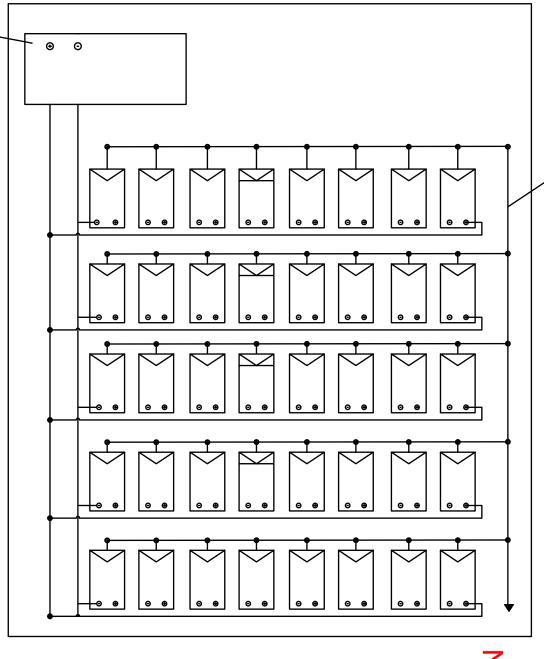


backing soil properly compacted and covered with 10 cm plain concrete

UNDP



## Solar Panels in 5 strings in parrells







- The solar cell shall be mounted on galvanized stands
- The total output of the solar cells shall decided after pumping test

but should not be less 3.5KVA

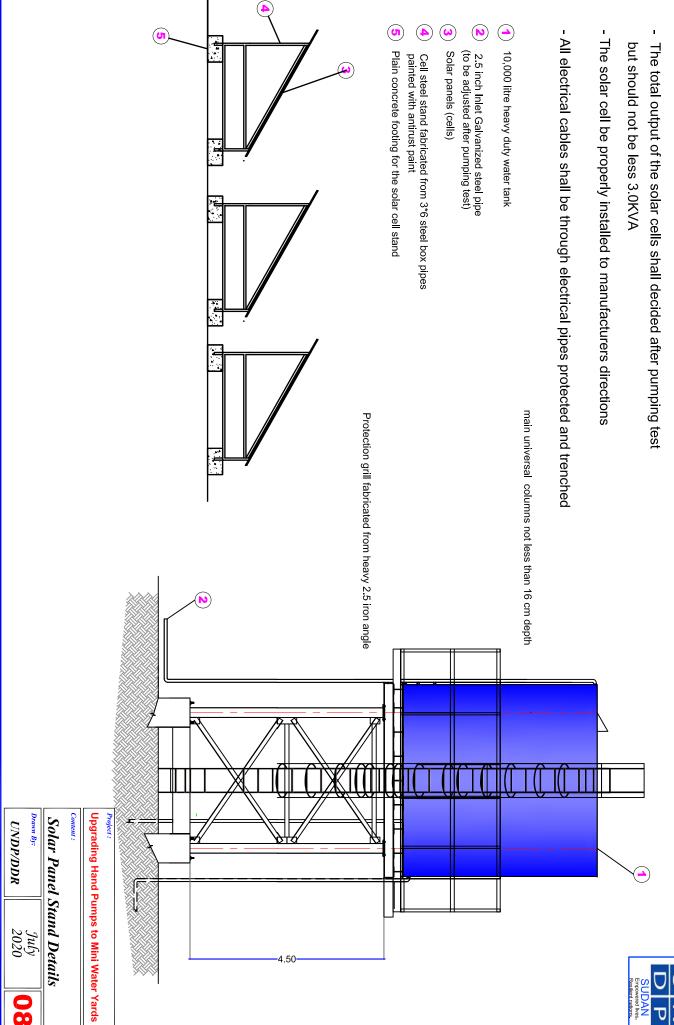
- The solar stands shall be fixed with plain concrete footings
- The solar cell be properly installed to manufacturers directions
- All electrical cables shall be through electrical pipes protected and trenched
- Bidder quoting for different arrangement or design has to state so and should provide all necessary information for evaluation

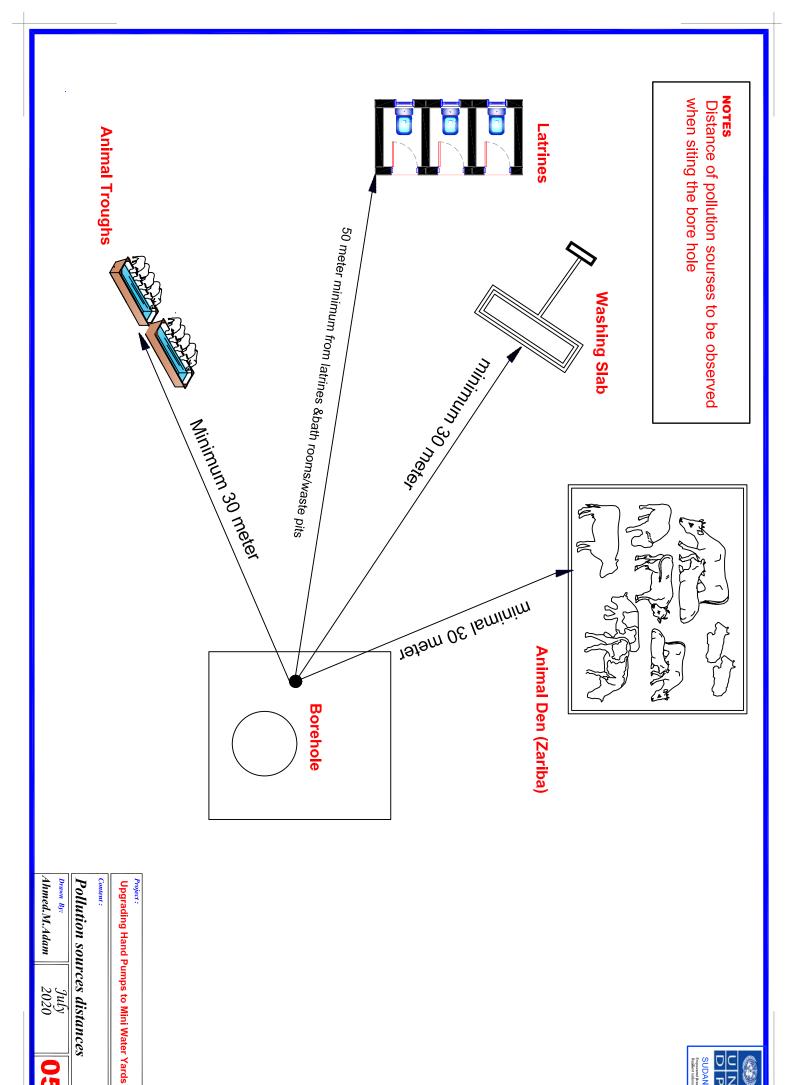
**Upgrading Hand Pumps to Mini Water Yards** Solar Cells Wiring July. 2020

Ahmed.M.Adam



The solar cell shall be mounted on steel / aluminum stands





D P
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