

Site visit with the contractors to Jdeidet El Chouf WWTP on October 31, 2017.

Site visit procedure:

1. Met in the beneficiary's meeting room and discussed the overall project design and the technical drawings
2. Visited the installation area
3. Visited the electrical room
4. Discussed technical issues and questions with the contractors

Main points discussed (with the presence of the beneficiary representative):

1. Description of the mounting procedure and the land area needed to install the ground mount PV system
2. Regarding the installation of the inverters, the option of installing the inverters on the mounting structure - underneath the panels was discussed - while highlighting the fact that the inverters should be protected from direct sunlight and rain
3. Cable spans were discussed while highlighting the use of cable trays conforming to the criteria in the ITB
4. The connection point was discussed with the contractors along with the different location options for installing the electrical panels and battery bank

Main questions asked:

1. How to connect the main AC cable to the connection point?
 - a. The two options of laying the cable underground or installing a pole and aerial cable are viable
2. How will the land be divided and compacted?
 - a. The municipality will create a single level having an area of approximately 1,000 m²
3. Where will the batteries and hybrid inverters be installed?
 - a. There is a room directly next to the main electrical board that will house the batteries and hybrid inverters
4. What is the maximum demand current reached in off-grid mode?
 - a. The maximum steady state demand current from the waste water treatment plant shall be 35 A per phase during off-grid operation