OP-22: Rainwater Management - STARS

Rain Water Harvesting Project
AAW Campus
Overview

**Project Name**: Rain water harvesting project at Al Ain Women’s campus

**Project Status**: Completed

**Project Cost**: 161,800AED
Project Description:

- Every year rainy season AAW has experienced the Flash flood behind B-Block which caused a serious threat for all the campus stakeholders. The flash flood depth was raised up to 60cm.
- To avoid this, AAW facilities successfully implemented an innovative rainwater harvesting system, which is more sustainable and helps to improve the groundwater table.
- The flooded rain water was collected in eight soak pits and overflowed water will discharge to the outskirts of the campus.
- The project improved the ground water table of the area and improved the natural vegetation.
Flash Flood Photos Before the Project:
Flash flood affected area
Storm water network diagram:
Storm water network diagram:

AAW - RAIN WATER SOAKAWAY LAYOUT
Storm water lines:
Final Project impact/Outcome:

- The impact of the project is given below

  **Direct Impacts:**
  - After the project completion, there was no flash flood occurred in the campus
  - Support campus safe environmental
  - Increased HCT Sustainability credential
  - The flooded water are transferred to the soak pits to improve the ground water table of the area
  - All soak pit can occupy approximately 38000 letters of rainwater at a time

  **Indirect Impacts:**
  - The project improved the structural durability of the flooded area
  - Helps the growth of natural landscape
  - Reduce the carbon foot print
Overflow chamber:
THANK YOU

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