

Princess Noura Bint AbdulRahman University, Riyadh, Saudi Arabia



LANDSCAPE ARCHITECT:

Dar Al Handasa Consultants

IRRIGATION DESIGN:

AALICO Landscaping

GENERAL CONTRACTOR:

EL SEIF & CCC JV

RAIN BIRD PRODUCTS:

- SiteControl
- TWI
- ESP-SAT
- Flow Sensors
- WS-PRO



PROJECT OVERVIEW

The land of Saudi Arabia is mostly desert, although it also has oases, mountains, and coastal areas. The country has been developing aggressively during the past 20 years. One of the top 10 projects that is currently taking place in Saudi Arabia is Princess Noura Bint AbdulRahman University for Women in Riyadh. The Saudi government in the form of Ministry of Finance; Ministry of Higher Education is financing a US\$11.5 billion project which involves construction of a new university for women.

The university is expected to cover 8 million m² (86 million ft²) and will be located on King Khalid International Airport Road north of Riyadh. The total built up area is around 3 million m² (32 million ft²). The university will include administration buildings, 13 faculties, a 700-bed student hospital, laboratories, research centers, its own railway system and a residential area that includes accommodation for students and staff. The university's capacity will be 26,000 students.

CHALLENGE

Due to the nature of PNU project and the culture and regulations of KSA, the consultant had to look for a central control system that could help them eliminate the need for irrigation maintenance crews to enter the campus during day time. The designer called on Rain Bird to help propose a central control system that could monitor the irrigation system 24/7, provide 2-way communication, monitor for possible leakage and isolate zones if needed, and provide an interactive screen system.

SOLUTION

With the help of Rain Bird's Central Control team, the Rain Bird team in KSA was able to secure the job using Rain Bird SiteControl. SiteControl will manage the landscape irrigation system through 5 TWI's, 27 ESP-SAT units, 195 flow sensors, and a Weather Station in addition to other Rain Bird products (solenoid valves, rotors, bubblers and emitters). When finished, the PNU project will have the largest number of flow sensors operating on a single site.

The project is currently under advanced construction and expected to finish in a short period.