

The Bahrain Turf Club, Kingdom of Bahrain

SITE REPORT
SPORTS FIELDS



The Bahrain Turf Club replaces outdated irrigation system with Rain Bird® products and improves turf quality with remote water management

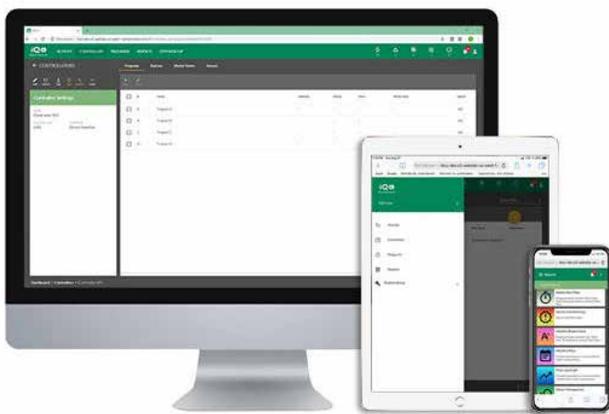
The Bahrain Turf Club is a nonprofit organization established in 1977 for the purpose of promoting and regulating the sport of horse racing. The club's two turf racing tracks measure 1.5 miles in length. Keeping the grass irrigated and well-maintained is critical to the safety of horses and riders.

THE CHALLENGE

The two turf racing tracks are very large, each measuring 65.6 feet (20 meters) wide. The rotors must be installed on the periphery of the tracks and the two parallel tracks intersect at three locations, creating an area that is too wide for typical gear-driven rotors to achieve head-to-head coverage. The installation team faces the additional challenge of installing the new system during the racing season, so installation must be seamless, without interruption or damage to the turf track.

THE SOLUTION:

Install a new Rain Bird irrigation system that pairs long-range rotors and water jets with sophisticated water management tools. Maintain a precise project schedule to avoid horse training times and racing days, while maintaining the existing irrigation schedule.



Rain Bird Central Control

KEY OBJECTIVES

- ✓ **Replace Outdated Irrigation System**
- ✓ **Install Without Damaging Existing Turf**
- ✓ **Enable Remote Irrigation Management**
- ✓ **Improve Quality and Consistency of Turf**

Core Products Used:

- [752 Rotors](#)
- [ESP-LXD Series Two-Wire Decoder Controllers](#)
- [XLR Series Water Jets](#)
- [Rain Bird Central Control](#)



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RESULTS:

Head-to-Head Coverage and Improved Turf Quality

The combination of rotors and water jets provided the necessary head-to-head coverage to produce healthy, consistent turf throughout the course without wasting water. The flexibility of the system and the consistency of the irrigation coverage have significantly improved the turf.

Uninterrupted Racing

The turf track was able to be maintained and remained undamaged throughout the entire installation process. Work was scheduled around horse racing and training times, and the facilities team continued using the old irrigation system to keep the turf healthy until the new system was in place.

“ The introduction of the Rain Bird system in April 2015 coupled with a new turf maintenance regime has enabled us to provide a racing surface to be proud of. The flexibility of the Rain Bird system and its consistency of coverage has brought about a complete transformation in the irrigation procedures at the The Bahrain Turf Club, which in such testing conditions as an Arabian summer is a very valuable asset.

MR. NEIL MACKENZIE ROSS
FACILITIES MANAGER, THE BAHRAIN TURF CLUB

APPROACH:

Install 752 Rotors and XLR Series Water Jets

752 rotors are ideal for tracks like the Bahrain Turf Club. They have a throw radius of up to 84 feet, distribute water evenly, are durable, and require minimal maintenance. To complement the rotors, the XLR Series Water Jets have a slow return, a 45-degree spray rise, an arc that can be easily adjusted without tools, and are an ideal solution for where the tracks intersect.

Install ESP-LXD 2-Wire Controllers and Rain Bird Central Control

The ESP-LXD can control up to 200 stations, giving the club the flexibility it needs to add additional stations in the future. These controllers offer flow sensing and management with endlessly customizable programming for water flow. By using Rain Bird Central Control, the facilities manager can fine-tune irrigation schedules and shut off or start a schedule right from the office computer, without having to travel to each controller.

