

- Offices
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**Case Study - Al Janadriya
Equestrian Club**

Construction of the £89 million Equestrian Club Complex marked the fulfilment of a goal envisaged over two decades ago by the client the Equestrian Club, Riyadh (ECR) and brought state-of-the-art horse racing facilities to the heart of Saudi Arabia

The complex spreads over a nine million square metre site and encompasses a main race-track, training track, the main grandstand building, race-day stables, staff housing, maintenance building, administration building equine hospital, equine laboratory, clubhouse, mosque and other support buildings.

Work on the first phase of the project, involved enabling works. Phase two which included the installation of the Audix Voice alarm system, covered the critical facilities such as the racetrack and training rack, camera towers, grandstand, mosque, maintenance building, race-day stables, saddling enclose, clubhouse, a car park and a nursery.

The main racetrack is a two Km oval and has two 400M chutes. It covers an area of 85,000 square metres with a 24M wide "all-weather" racing surface and metallic railings on both sides. The training rack is 20M wide and covers and area of 45,000 square metres.

The 28,000 square metre grandstand has six level and includes 24 private box seats with dining facilities and open seating for 3,500 spectators.

The 8,000 square metre clubhouse offers leisure facilities for members and their families. These include three restaurants, tennis and squash courts, two swimming pools, children's indoor and outdoor playing areas, lounge areas, changing rooms, four 10-pin bowling lanes, tennis courts, a specially built bowling green and extensively landscaped outdoor recreational areas.

The other buildings on the site include a mosque for 500 worshipers, a 4,000 square metre maintenance building, race-day stables with stalls for 60 horses, a saddling enclosure with 24 stalls, four sampling stalls with a veterinarian's office, housing to accommodate 250 labourers and a 9,000 square metre nursery for trees and plants.

**LEISURE -
RACETRACK**

The Public Address system supplied for the Equestrian Club provided Public Address and Voice Alarm facilities of the highest quality demanded by a major international venue of this type. This system is accessed through microphone units, music sources and recorded messages stored on PC cards along with race day commentary. The PA is controlled from a number sources as follows:

- Grandstand office
- Security room
- E & M control room
- A/V control room
- Security room
- Maintenance building
- Raceday stables
- Spare
- Solid state message store
- Tape/CD/TV & commentary feeds

A number of users have restricted access to the system (i.e. limited zones)

All circuits and equipment are fully fault monitored in accordance with international standards and in compliance with BS5839 parts 1 and 8 and BSEN60849. The following faults are detected:

- AC power
- DC power (battery)
- Audio paths (from the signal source to the end of loudspeakers circuits)
- Operation of audio power amplifiers
- Microprocessor watchdogs
- Microprocessor memory contents
- Serial data paths

The PA system is capable of expansion by the addition of modules and speakers

The Alpha matrix is equipped with 16 outputs and thus designed with sufficient spare capacity for expansion.

The Audix amplifiers used in the design were chosen because of the high quality and performance that is recognised throughout the industry.

The Alpha matrices can be networked to enable system expansion at a later date.

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