

Soccer Training Facilities, Indonesia

Rain Bird® Rotors Improve Health of Training Facilities in Indonesia

The Indonesian Soccer Federation launched a project to **upgrade the irrigation system** at its premier training facilities across multiple provinces. The sites are crucial for player development and national team preparation for international tournaments. Maintaining high-quality fields in a tropical climate with erratic rainfall is essential for **optimal performance**. The improvements aim to ensure consistent training conditions and **enhance Indonesia's soccer aspirations**.

The Challenge

The facilities faced major challenges, including unpredictable weather with heavy downpours followed by dry spells. This posed a manual irrigation process requiring hoses. Without proper attention, dry spots and water puddles could easily form.

- **Water conservation** was critical, as facilities had to manage limited resources in urban areas.
- A **remote-control solution** was urgently needed to allow operators to manage irrigation efficiently and ensure **optimal field conditions** before every event.

The Solution

To address these challenges, Rain Bird partnered with PT Sahabat Agritama to implement state-of-the-art automated irrigation system. This solution ensured uniform water distribution, reduced manual labor, and minimized water waste.

- **Advanced controllers** (ESP-TM2, ESP-ME3, ESP-LXIVM) enabled remote irrigation management.
- **High-performance rotors** (8005 and 11000 Series) ensured even water coverage, while the **LNK™2 WiFi Module** enabled seamless control via the **Rain Bird mobile app**.

These technologies allowed the facility to **optimize water use** and maintain **high-quality turf** across all training fields.

Key objectives

- ✓ Address weather variability
- ✓ Upgrade the irrigation system
- ✓ Enable remote-control functionality
- ✓ Conserve water



Products used

- 8005 Series Rotors
- 11000 Series Rotors
- LNK™2 WiFi Module
- ESP-TM2
- ESP-ME3
- ESP-LXIVM



Results

The new irrigation system delivered remarkable results:

- **Water usage decreased by 40%** due to a programmable irrigation plan that optimized water allocation.
- **Manual watering was reduced by 60%**, allowing staff to focus on their critical tasks.
- **Improved turf health** from consistent irrigation with 8005 and 11000 series rotors directly enhanced **player performance**.

By implementing this advanced system, the Indonesian Soccer Federation elevated training facility quality while reinforcing its commitment to sustainability and global best practices. The enhanced soccer fields included:

1. Jakarta International Stadium (JIS)-Jakarta
2. Lapangan Training Persija-Sawangan Depok
3. Stadion Pringgodani-Wonogiri
4. Lapangan Mini Soccer Sintetis BSB City-Uptown Mall BSB Semarang
5. Lapangan SIS / Sierra School-Cakung
6. Stadion Abu Bakrin-Magelang
7. Stadion BJ Habibie-Parepare
8. Lapangan Universitas Pertahanan-Bogor
9. Lapangan Sekolah Gonzaga-Jakarta
10. Lapangan SMA Taruna Nusantara-Cimahi
11. Lapangan UPH-Tangerang
12. Akademi Sepakbola Garudayaksa-Cilengsi
13. Training Centre Dewa United Megamendung-Bogor

Approach

Rain Bird and PT Sahabat Agritama began with a comprehensive site assessment, working with local contractors to evaluate water flow requirements and infrastructure limitations. A tailored solution was then designed to maximize efficiency based on pump capacity.

- **Key challenge:** Ensuring proper sprinkler burial depth to protect players and maintain system integrity.
- After installation, the system underwent **rigorous testing**, and facility staff received training to manage irrigation via the **Rain Bird mobile app**.

