



> GIS of STSP

Comprehensive Management and Maintenance of Facilities

Management and Maintenance of Facilities/Landscapes

Geographic Information System (GIS)

The Administration outsourced the establishment of the GIS to a specialized company in 2004. The system enables users to inquire about underground pipelines and apply for road excavation online. The maintenance and management system of infrastructures such as piped water, fire hydrants, and streetlights will be available online in the future to facilitate the system in the park.

Management of Public Domains and Sharing of Facilities

Employees working at STSP and the neighboring inhabitants participate in sports and leisure activities in public domains including Taoye Lake, Siake Lake, Siraya Plaza, Yingsi Lake, and Park No. 3, which were completed in 2004. Cultural and art festivals, community gatherings, and employment activities are organized on an irregular basis, and tenants can lease venues depending on the size of the events. Regulations governing angling are stipulated to open certain areas for workers at STSP and the public to fish in hope of enriching the choices for leisure activities.

Management of Landscapes

The afforestation in 2004 covered dormitories, factories, Siraya Boulevard, the west side of Nanke North Road, Dajhou and Zuoqia Drainages, Pusin Park, Park No. 12, Phase I Green Belts, elevated tanks, basketball court and softball field, planned land of Community Center, and the temporary parking lot of the Administration. The planting was determined by the florescence and growing season, and plants will be trimmed and maintained properly.



> Yingsi Lake



> Pusin Park



> Chuang Sin IV Factory (Phase IV Standard Factory)



> Phase II VIP Dormitory

Lease Management

Land

The Tainan Science Park covers 2,565 acres, and the parks and green areas consist of 608 acres, accounting for 24% of the total area. The area for industrial use is twice as much as the parks and green areas; the main building coverage ratio is 50% whereas the floor space index is 200%, and the intensity of land use is moderate, creating a spacious ground for the inhabitants.

By the end of 2004, the percentage of lease-out land of Phase I and Phase II Sites in the Tainan Science Park reached 95% and 100%, respectively while that in the Kaohsiung Science Park accounted for 62% (including pre-lease contracts).

Standard Factory

There are 4 standard factories (the Phase I, II, III and IV) with 143 units in the Tainan Science Park, and the percentage of lease-out units of 63%.

In addition, the Phase IV standard factory (Chuang Sin IV), which has 24 units, exclusively for biotechnology industry is cGMP approved. They were completed by May 2004. It is estimated that 60 units will be completed in the Phase V standard factory by March, 2005.

The standard factory of Phase I in the Kaohsiung Science Park has 40 units, which were completed in August, 2004. 4 of the 40 units have been rented out since the end of 2004.

A maintenance team and a service line were installed to maintain the facilities in the factories in order to provide the tenants with the most sufficient services possible. The police forces and security guards of STSP are on patrol to ensure security within the parks.

Dormitory

The VIP, family, and single dormitories are available for rent in the Parks. There are 25 units in the VIP dormitory "Pu Yuan," 164 and 14 households in the family dormitories "Hsing Yuan" and "Hua Yuan" respectively. The Hua Yuan Dormitory has 875 units for single employees.

There is sufficient space and landscape engineering in the dormitories' public areas. Entrance control is implemented at every gate. A security team guards one to two dormitory buildings.

Flood Prevention

In Tainan Science Park, 3 detention ponds, Taoye Lake, Siake Lake, and Yingsi Lake, were completed to equalize floods. Yingsi Lake is designed to accommodate floods with a frequency of every five decades; the maximum capacity is 0.3 million cubic meters. The watersheds are located near two clusters, Beisanshe and Nansanshe. The total drainage basin measures approximately 618 acres, and the water reaching Yingsi Lake will be discharged into Dajnou Drainage by flood control pumping stations. The large pumpers discharge less than 10 years worth of water before development. The maximum pumpage is 20CMS. The pumpers are operated by professionals and experts in accordance with the hydraulic analysis of channels inside and outside of the Park and the flood warning in order to respond to any situation.

There were a total of 11 typhoon and torrential rain warnings in southwest Taiwan in 2004, among which was Typhoon Mindulle. It devastated many areas island-wide. The 3 pumpers in the Park, however, were in full play for 33 hours. The total amount of pumpage rose to 0.65 million cubic meters, so that Yingsi Lake was able to reserve water, and thus, efficiently prevent and regulate floods.



> Flood Control Pumping Station