

ARCHITECTURAL BUILDING WORKS

Operations

Architectural Building Works

In 1973, TOA established the Building Department and became a full-fledged general contractor. Since then, TOA has accumulated experiences and established a reputation as a reliable and quality builder by completing various projects including educational facilities such as schools, cultural and recreational facilities such as gymnasiums and sports centers, medical and welfare facilities such as hospitals and care houses for aged people, commercial buildings such as offices, shopping malls and hotels, industrial buildings such as factories, power plants and warehouses, and residential buildings.

In response to the social demands in this modern era, TOA has developed new technologies such as roof gardening and energy-saving design for environmental sustainability, earthquake-proof mechanism for disaster prevention, and HACCP food processing system for safety of life.

Phu My Power Plant Phase I in Vietnam

Projecting to attract steady inflow of foreign investments, the Vietnamese Government needed to solve the shortage in electric power supply, and designated Phu My district, 80km southeast of Ho Chi Minh City, as the location to newly develop an electric power complex. In 1998, funded by an aid-loan from the Japanese Government, Vietnam Electricity gave a full turn-key contract to Mitsubishi Heavy Industries Co., Ltd. to build the Phu My Power Plant, Phase 1, consisting of four generation units capable to totally generate 1,000MW.

As a nominated subcontractor, TOA took charge of all civil and building works for the project. Our selected project members fully displayed their skills and expertise to complete various architectural works, including turbine-housing building, control and administration buildings, warehouses and other utility buildings in addition to the civil engineering works such as a coal unloading jetty and cooling water intake and discharge facilities on schedule and to great satisfaction of the project owner.



Kawaminami Town Cultural Hall, Kawaminami Town, Miyazaki Prefecture

Kawaminami Town, Miyazaki Prefecture in the Kyushu Island, planned to construct a cultural complex composed of a multi-purpose hall seating 650 people, a library, a seminar room, and auxiliary facilities with the total floor area of 6,613m² on a lot of 10,740m². Its construction was commenced in 1997 and was completed and inaugurated in 1999.

The external design of the main hall combining a circular truncated cone and stacked-up horseshoe shapes symbolizes the ancient burial mounds preserved for generations by local communities, and the entire design using various geometric shapes interweaving each other well harmonizes with the topographical features and the rich natural environment of the town.

TOA devoted its accumulated expertise to complete the project in an environment-friendly and safe manner.



Saeki Solid Waste Incineration Plant

As the population grows in urban areas, proper treatment of solid waste becomes a critical issue to maintain and upgrade the quality of the urban life. In 2001, Saeki City and the neighboring seven townships in Oita Prefecture jointly started a project to build an incineration plant to process as much as 110 metric tons of solid urban waste a day with two incinerators of which incineration temperature is high enough to keep dioxin from being formed. TOA was engaged in its construction by taking charge of earth works and foundation works.



Kaolack Central Fish Market in Senegal

In 2003, TOA was awarded by the Government of the Republic of Senegal a contract to newly construct a modern fish market in Kaolack City located approximately 200km southeast of Dakar. Funded by Japan's ODA loan program, the project included the construction of a market building of 1,936m², an ice plant building of 811m², a refrigeration system, an ice production plant, a sewage treatment system, and other auxiliary utilities. TOA carried out the project friendly with, and safely to, the local communities and the rich natural environments, and completed all works in 2005 on schedule with excellent quality.



Newly Completed Projects

AMB Tsurumi Distribution Center

In this highly commercialized society, logistics plays a key role to enhance the national economy, and thus, large scale distribution centers have been developed one after another in metropolitan areas and along highways.

In 2008, TOA completed one of them, named AMB Tsurumi Distribution Center, in the seaside industrial area of Yokohama City. In order to secure its proper functions against a possible large-scale earthquake, its structural design required installation of seismic isolation system, which was professionally responded by TOA's architectural engineers to the great satisfaction of the project owner.

Project owner: AMB Tsurumi TMK (Specific Purpose Corporation)
Construction site: Anzen-cho, Tsurumi Ward, Yokohama City
Construction period: April 2007 to April 2008

Building summary: five-story high, earth-quake proof, steel reinforced concrete structure, a total floor area of 69,419m²
Major Facilities: 96 elevated docks, a self-driving ramp way up to the third floor, 10 cargo elevators, 2 vertical conveyers, and 120 parking spaces



Sumitomo Iidabashi Ekimae Building

In 2008, TOA completed Iidabashi Ekimae Building, a 13-storey office building adjacent to a busy commuter train station in downtown Tokyo. This building has state-of-the-art design features such as the concrete-filled steel pipe structure for main columns and the aluminum-framed curtain walls for the external façades.

These features enhance the earthquake-proof strength, heighten the floor-space efficiency, and provide a sophisticated appearance of the building.

Project owner: SF Iidabashi Development Specific Purpose Corporation
Construction site: Chiyoda Ward, Tokyo

Construction period: from November 2006 to July 2008

Building summary: 13 story high, one basement floor, a total floor area of 16,072m²

