

Kansai International Airport 2nd Stage

Award Winner of “Monument of the Millennium” of ASCE

This is 24 hours operating international airport opened in September 1994. The 2nd stage of the project is to construct the airport island for the new 4000 meters long runway and airport facilities. Since its start of the construction, TOA is fully engaged in the airport island construction which is located in the offing of the first stage construction. The airport island to be reclaimed is in the area of 18 to 20 meters water deep with soft clayey ground which is thicker than those in the 1st stage project, its various construction conditions are more severe. During this fiscal year, TOA has been engaged in sand spreading and soil improvement works both in the airport island embankment and reclamation parts.



Chubu International Airport

The construction works of Chubu International Airport located in the eastern part of Isewan Bay, also known as “Centrair” project, has started from August 2000 with the aim of its completion in 2005. This airport is expected to function as a 24 hours operating international offshore hub-airport. With its own technology, TOA has completed the construction of the embankment and is fully engaged in the airport island construction by reclamation in order to build 3500 meters runway and airport facilities. In reclamation works, huge volume of dredged marine sand is used to reduce collection of sand from onshore mountains, and environmental protection-oriented operations and systems such as mixing and solidifying process are fully applied from the environmental view points.



The 2nd LNG Berth at Futtsu Thermal Power Station

To meet with annually increasing demand for the electric power in Tokyo Metropolitan area, it is urgent to construct the LNG (Liquefied Natural Gas) receiving facilities for the combined cycle power generation of Futtsu Thermal Power Station. TOA is engaged in the expansion works for the dolphin type LNG receiving berth.



Minami-Honmoku wharf at Yokohama harbor

With the history of 142 years since its opening, Yokohama Harbor has had an island type wharf, such as reclaimed Minami-Honmoku wharf. Yokohama City Authority has spent approximately ¥37 billion during last 10 years for construction of the world's largest container terminal for the above reclaimed island. This container terminal is specially designed for super-large container ships and the wharf length is 700m, 350,000m² in area, and 16 meters in depth. It has equipped with five gantry cranes for loading and unloading for containers, and is expected to function as a hub port in the East Asia.

With its remarkable technology and vast accumulated know-how in harbor construction, TOA is greatly proud of its full commitment from the primary stage to the final stage of the project.



Shirotori-Ohchi Interchange Work in Takamatsu Highway

The Shikoku Island Intersection Highway crossing the Setouchi Inland Sea and Pacific Ocean with the total mileage of 441km, is expected to play an important role for the industry, economy and culture of Shikoku Island. The newly opened Takamatsu Highway, with the traveling distance of 32.5km, which is located in the north eastern area of Shikoku Island, is also contributing to the industry and culture for these areas, both locally and the island as a whole. This completed section includes the earth works of the total volume of 6.3 million m³ along the Setouchi Inland sea. It consists of the construction works of highway, general road, tunnels, parking service area and four interchanges including this Shirotori-Ohchi-Interchange.



Hyosaka Tunnel

TOA has completed a great number of tunnel construction projects. Among the projects completed this fiscal year, the Hyosaka Tunnel was included and this tunnel improves the mountainous road along with river facing steep slopes and will contribute to more safe road transportation and local community activation. NATM construction method has been used for Hyosaka Tunnel project.



Tokyo Stadium

Tokyo Stadium was opened in March 2001 in Tama area, Tokyo. Its construction works has been started since June 1998. It has a capacity of 50,000 seats in two layer system, and the field is covered with natural lawn. A suspension roof structure covers three fourth of the stadium and the seats are specially designed so that the audience can see the field easily from each and every seat.



Construction of “Shiu-land Kaiyuukann” in Aomori Prefecture

Currently, there are three full-fledged thalassotherapeutic facilities in Japan. Thalassotherapie is a medical therapy program using marine water, seaweed, marine and mud which are suitable and promote health for the people. Japan’s first thalassotherapeutic facility is the Talasso Shima which is located in Toba City, Mie Prefecture, and this facilities have been constructed by TOA. The thalassotherapeutic facility “Shiu-land Kaiyuukann” has been constructed by TOA employing our know-how and technology. This facility is the first thalassotherapeutic facility planned by the local authority as the core base for health promotion of the local people.



International Projects

TOA has been constructing various fishing related facilities. These include dredging and reclamation works and construction of wharves, jetties, piers and fish market facilities. Among the fishing port related projects completed during this fiscal year, Boulvinet Fishing Port in Guinea, Melville Street Fish Market in Grenada located in the Caribbeans are included. In addition, Mindelo Fishing Port of Sao Vicente Island, Republic of Cape Verde, located offshore of Africa in the Atlantic Ocean is included. These construction works include dredging, reclamation and building of pier, wharf and refrigerating facilities.



Mindelo Fishing Port of Sao Vicente Island

Punggol Reclamation Project (Phase 4)

Singapore is a small island and it is important to use the coast line effectively. Housing Development Board of Singapore has sincerely wrested with the development of housing land in the mouth of Punggol district with the reclamation of 11 million m³ of soil, revetment construction of 8.8 kilometers in length and soil improvement works of 5.1 million m³.

TOA will complete its reclamation works in the north eastern coast of Singapore by November 2001. It will be a new waterfront with resident areas, recreation facilities, shopping centers and marine parks in the future.

