



Ikari Dam

Highlights at the Ikari Dam

① : Concrete gravity dam

It is the most common type of dam in Japan. The dam body has a dynamic structure.

② : Pioneer of large dams

It is one of the earliest large dams in Japan. The construction ended in 1956.

③ : Capacity improvement (1)

A discharge function was added by making openings in the dam in response to changes in the flood control plan.

④ : Capacity improvement (2)

A selective water intake facility and a discharge facility for water supply were installed in 2019 to discharge turbid water and prevent adverse effects downstream caused by the discharge of low-temperature water.

Ikari Dam Management Branch Office

Kinugawa Integrated Dam Control Office
Kanto Regional Development Bureau
Ministry of Land, Infrastructure,
Transport and Tourism

Address:

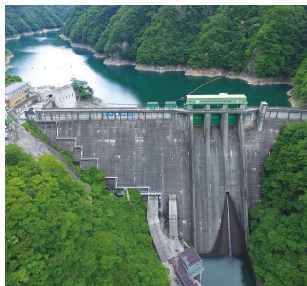
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About Ikari Dam

General Information

- Construction started in 1941 and ended in 1956.
- It controls flood water, supplies water for irrigation and generates electricity.



Type : Concrete gravity dam
 Geology : Granite
 Height : 112m
 Length : 267m
 Volume of dam body :
 468,000m³
 Elevation of the dam top :
 EL.594m

Specifications of reservoir

Catchment area : 271.2km ²	Effective storage capacity : 46mil.m ³
Water surface area : 3.1km ²	Flood control capacity
Surge water level :	: 34.8mil.m ³ (Flood season)
EL.591m	: 14mil.m ³ (Non-flood season)
Normal water level : EL.586m	Design flood discharge : 1,500m ³ /s
Minimum operating level : EL.566m	Maximum discharge : 500(450)m ³ /s
Total storage capacity :	Control volume : 1,000(1,050)m ³ /s
55mil.m ³	Effective water level : 25m

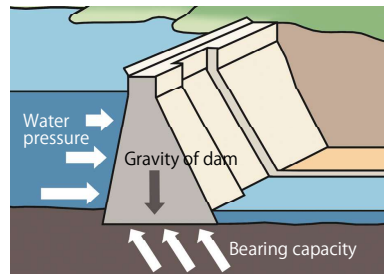
EL.(elevation) is based on Tokyo Peil, the Japanese measuring system of elevation. In Tokyo Peil, mean sea level in Tokyo Bay is equal to 0 (zero) m.

Let's visit other types of dams in the area

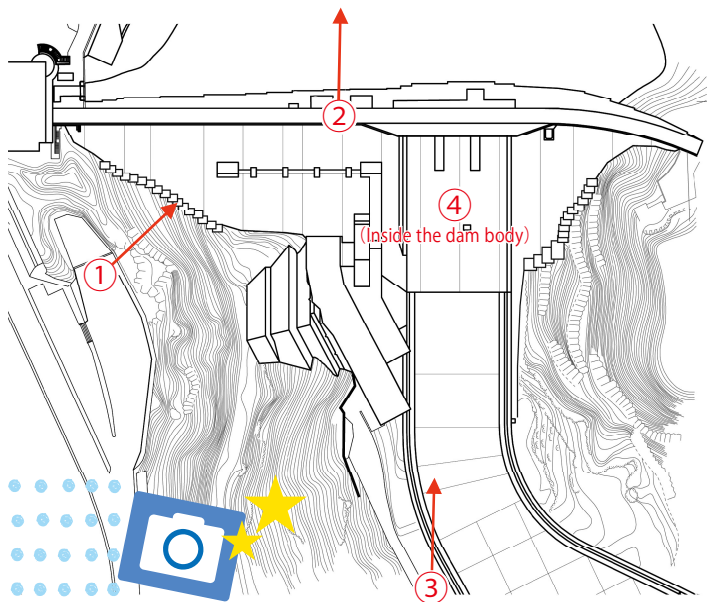


Ikari Dam is a concrete gravity dam.

- Concrete gravity dams are the most common type of dams in Japan.
- Please visit other dams in the nearby area including Yunishigawa Dam (concrete gravity dam), Kawajima Dam and Kawamata Dam (concrete arch dam).



Views of Dam



① Reservoir surface and dam body



② Reservoir viewed from the crest



③ Tour participants can look at the dam from the front



④ The first high-pressure slide gate made in Japan

● Emergency spillway



3 two-stage roller gates
[Discharge capacity] 3,000 m³/s

● Regular spillway



2 high-pressure roller gates
[Discharge capacity] 500 m³/s

● Discharge conduits for water supply

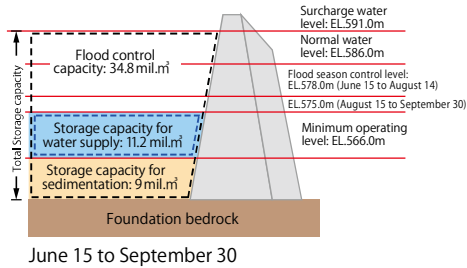


1 jet flow gate
[Discharge capacity] 14 m³/s

About Outlet Gates

Changing Water Levels in Dam

Flood season

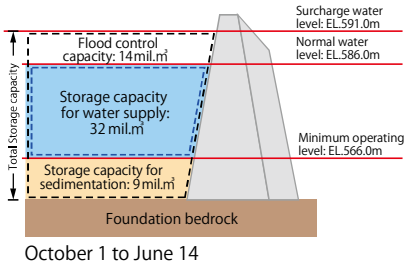


● Water level is kept low to store water inflowing during a typhoon

Flood Season Control Level



Non-flood season



● Stores water to supply it to the downstream area

Normal Water Level



Plans of Dam

