



Downstream dam body pictured from dam top(crest of dam)

### Order for Kirizumi dam-body and weather observation equipment renewals

Kirizumi dam is a concrete gravity dam built in 1975 and located upstream of Usui River on the way to Kirizumi Hot springs, which was cited in the poem of "Boushi" by Saijyou Yaso also formed the setting of famous noble "Ningen no Syoumei" of Morimura Seiichi.

Kirizumi dam is a comprehensive water control dam, which serves as flood-control of Usui River as well as stable supply and control of vested water, such as irrigation water for the Usui River basin. Meisei has been awarded the renovation contract for the Dam-body and Weather observation system.

Dam-body observation includes measurement of water leakage and dam deformation / displacement (by deflection meter), and meteorological observation performs measurement of Wind sensor, Rain gauge, and Water temperature. All measured data are transmitted to the dam management control equipment system (center) for the dam operations.

Meisei will continue to contribute to a safe and secured facility operation by maintaining normal function of the system.



Narusawa Toyatsuka east observation pint (Mt. Fuji)

### Volcano observation equipment was installed

Meisei was awarded the contract for "Production, installation and Adjustment of volcano observation equipment" from the Japan Meteorological Agency (JMA), and installation work has been completed.

JMA has developed a volcano observation system throughout Japan, which consists of infrasonic meters, seismometers and telemetry devices to capture the earthquake and volcano Infrasonic and transmit observed data. By the early detection of abnormal changes in volcanic activity and announcing quickly eruption warning and forecast, JMA strives for mitigation of volcanic eruption disasters. As a part of this effort, Meisei has put the volcano observation equipment in place for Mt. Meakan, Mt. Ontakesan, Mt. Fuji, Mt. Aso, Satsuma Iwo Jima, and Suwanosejima. Considering the volcanic observation points where communication lines and power supply are generally not available, the compatible system design are applied such as equipping solar cells and dedicated wireless data transmitting system.

This system is applying Meisei's "Small low power consumption telemetry S500 series" and "GMSK radio communication device", which enables a higher accuracy data collection and higher speed wireless data transmission than ever. Meisei is committed to contribute to the development of volcanic disaster prevention system/equipment for the future.



Processing unit, measuring unit and screen display image

### Long-period ground motion observation equipment were installed

Last fiscal year, Meisei was awarded a contract for long-period ground motion observation system from Japan Meteorological Agency, and completed the installation work in March.

This equipment has been installed along the Tokyo Bay coastal areas in order to enhance and strengthen the seismic observation capability around the metropolitan area where the occurrence of long-period ground motion is concerned. In addition to the existing calculation method of seismic intensity, this device can also calculate the long-period earthquake scale. These data are also used for the announcement of the long-period ground motion information.

Through the earthquake observation equipment development, Meisei will continue to contribute to the disaster prevention and mitigation.

### **SENSING & COMMUNICATION**

*We will contribute to develop safe and secure society, creating innovative products and services by full use of our original "SENSING & COMMUNICATION" technology.*