

Division	Equipment class	Designation	Detailed specification	Quantity	Unit	Place of delivery	Expected order	Expected delivery	Subject matter
Hydraulic power	Pump water turbine	Main body of pump water turbines of other types	Horizontal cross flow turbine	2	units	Tenryu Ward, Hamamatsu City, Shizuoka pref.	2019/6	2022/9	Keta Hydroelectric Power Plant Unit 1/2, bulk repair of pump water turbine generators
Hydraulic power	Pump water turbine	Main body of horizontal Francis turbine	Double horizontal Francis turbine	1	Set	Utsurogi, Aoi Ward, Shizuoka City, Shizuoka Pref.	2020/1	2025/1	Abegawa Hydroelectric Power Plant, new construction work, work on electrical main engine
Hydraulic power	Pump water turbine	Horizontal shaft Pelton wheel	Pump water turbine, power generator and attachments for	1	unit	Kuroda Hydroelectric Power Plant	2019/5	2022/8	Kuroda Hydroelectric Power Plant, bulk repair of pump water turbine generators
Hydraulic power	Pump water turbine	Pump water turbine, power generator and attachments for	Pump water turbine, power generator and attachments for	1	Set	Matsukawa-Cho, Shimoina County, Nagano Pref.	2019/7	2024/5	Ikuta Hydroelectric Power Plant, bulk repair of pump water turbine generators
Hydraulic power	Pump water turbine	Pump water turbine, power generator and attachments for	Pump water turbine, power generator and attachments for	1	Set	Minamishino, Iida City, Nagano Pref.	2019/4	2023/6	Iijima Hydroelectric Power Plant, bulk repair of pump water turbine generators
Hydraulic power	Pump water turbine	Pump water turbine, power generator and attachments for	Francis turbine/synchronous generator etc.	1	Set	Nagawamachi, Chiisagata County, Nagano Pref.	2019/6	2023/1	Wada Hydroelectric Power Plant, bulk repair of pump water turbine generators
Hydraulic power	Pump water turbine	Pump water turbine runner repair supplies (single flow)		1	unit	Higashiueda Hydroelectric Power Plant	2019/11	2020/12	Higashiueda Hydroelectric Power Plant Unit 2, repair of pump water turbines/generators
Hydraulic power	Pump water turbine	Governor (motor-operated)	Needle/differential drive gear, governor control panel for	1	unit	Hakuba-mura, Kitaazumi County, Nagano Pref.	2019/4	2020/11	Shin-Kusugawa Hydroelectric Power Plant, repair of governor
Hydraulic power	Pump water turbine	Governor (hydraulic Y-grade)	Output of pump water turbine: 20,000 - 49,999kW	2	units	Higashiueda Hydroelectric Power Plant	2019/10	2021/3	Higashiueda Hydroelectric Power Plant Unit 1/2, replacement of generator switchboard etc.
Hydraulic power	Pump water turbine	Motor-operated servo motor	Motor-operated servo amplifier, motor	1	Set	Miyata-mura, Kamiina County, Nagano Pref.	2019/10	2021/4	Shin-Ohtagire Hydroelectric Power Plant, replacement of servo amplifier
Hydraulic power	Pump water turbine	Hydraulic servo motor		4	units	Higashiueda Hydroelectric Power Plant	2019/5	2021/3	Higashiueda Hydroelectric Power Plant Unit 1/2, repair of GV servo motor
Hydraulic power	Pump water turbine	Vertical shaft generator stator coil	Stator coil repair supplies	1	Set	Miyata-mura, Kamiina County, Nagano Pref.	2019/10	2021/4	Shin-Ohtagire Hydroelectric Power Plant, repair of generator stator coil
Hydraulic power	Pump water turbine	Excitation control panel		1	Set	Okumino Hydroelectric Power Plant	2019/11	2020/4	Okumino Hydroelectric Power Plant Unit 6, replacement of exciter device etc.
Hydraulic power	Pump water turbine	Exciter device	Excitation thyristor rectifier panel	1	panel	Okuyahagi Daiichi Hydroelectric Power Plant	2019/6	2020/6	Okuyahagi Daiichi Hydroelectric Power Plant Unit 2, replacement of excitation rectifier
Hydraulic power	Pump water turbine	Exciter device	Excitation thyristor rectifier panel	2	panel	Okuyahagi Daini Hydroelectric Power Plant	2019/6	2020/6	Okuyahagi Daini Hydroelectric Power Plant Unit 2, replacement of excitation rectifier
Hydraulic power	Generator	Main body of horizontal shaft generator	Horizontal shaft 3-phase synchronous generator	1	Set	Utsurogi, Aoi Ward, Shizuoka City, Shizuoka Pref.	2020/1	2025/1	Abegawa Hydroelectric Power Plant, new construction work, work on electrical main engine
Hydraulic power	Generator	Main body of horizontal shaft generator	3-phase AC generator Pg/N, no less than 1 to less than 2	2	units	Tenryu Ward, Hamamatsu City, Shizuoka pref.	2019/6	2022/9	Keta Hydroelectric Power Plant Unit 1/2, bulk repair of pump water turbine generators
Hydraulic power	Generator	Main body of horizontal shaft generator	Pg/N, no less than 3 to less than 4	1	unit	Shima Hydroelectric Power Plant	2019/5	2021/11	Shima Hydroelectric Power Plant, replacement of generators
Hydraulic power	Generator	Main body of horizontal shaft generator	Pg/N, no less than 5 to less than 1	1	unit	Yamanouchi-Machi, Shimotakai County, Nagano Pref.	2019/7	2021/3	Hirao Daisan Hydroelectric Power Plant, replacement of generators
Hydraulic power	Circuit breaker	275kV GIS	Gasblast circuit breaker, 2000A 31.5 kA	1	unit	Ushiji-Cho, Toyoda City, Aichi Pref.	2019/5	2021/1	Okuyahagi Daini Hydroelectric Power Plant, replacement of 275kV GCB
Hydraulic power	Circuit breaker	275kV GIS	Gasblast circuit breaker, 2000A	2	units	Ushiji-Cho, Toyoda City, Aichi Pref.	2019/5	2021/1	Okuyahagi Daini Hydroelectric Power Plant, replacement of 275kV GCB
Hydraulic power	Circuit breaker	275kV GIS	Demobilization	1	Set	Okuyahagi Daini Hydroelectric Power Plant	2019/5	2021/1	Okuyahagi Daini Hydroelectric Power Plant, replacement of 275kV GCB
Hydraulic power	Circuit breaker	77kV major transformer	77/12.6kV 40MVA	1	Set	Yokoyama Hydroelectric Power Plant	2019/10	2022/1	Yokoyama Hydroelectric Power Plant, replacement of 1B major transformer
Hydraulic power	Circuit breaker	PCM pulse code modulator (275kV)	275 main-rear integrated type 1 with second D-type B with 43P	1	Set	Yahagi Daiichi Hydroelectric Power Plant	2019/7	2020/12	Yahagi Daiichi Hydroelectric Power Plant, repair of outdoor equipment
Hydraulic power	Circuit breaker	PCM pulse code modulator (275kV)	275 main-rear integrated type 1 with second D-type B with 43P	1	Set	Okuyahagi Daini Hydroelectric Power Plant	2019/7	2020/12	Yahagi Daiichi Hydroelectric Power Plant, repair of outdoor equipment
Hydraulic power	Circuit breaker	Tr77/11 19MVA	Outdoor salinity tolerant design not required for booster transformer	1	Set	Kunowaki Hydroelectric Power Plant	2020/2	2021/1	Kunowaki Hydroelectric Power Plant, replacement of 77kV 1B transformer
Hydraulic power	Circuit breaker	Station service cubicle	low-voltage	3	Box	Okumino Hydroelectric Power Plant	2019/9	2020/5	Okumino Hydroelectric Power Plant Unit 4, replacement of excitation circuit breaker
Hydraulic power	Circuit breaker	Station service cubicle	including STr (5-box composition)	1	Set	Yahagi Daiichi Hydroelectric Power Plant	2019/5	2020/7	Yahagi Daiichi Hydroelectric Power Plant, repair of outdoor equipment

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Hydraulic power	Switchboard	Monitoring control computer	Modification of generator monitoring control device	1	Set	Nagano City, Nagano Pref.	2020/3	2022/1	Hirao Daiichi Hydroelectric Power Plant, replacement of switchboard
Hydraulic power	Switchboard	Station service power receiving switch box	ACB 4 units, power distribution box	3	Box	Hiraoka Hydroelectric Power Plant	2019/6	2020/11	Hiraoka Hydroelectric Power Plant, repair of 2G 11kV equipment etc.
Hydraulic power	Switchboard	Integrated type hydroelectric protection control device	Protection control panel, auxiliary panel, RPI/O panel	1	Set	Takane Daini Hydroelectric Power Plant	2019/12	2022/4	Takane Daini Hydroelectric Power Plant, replacement of generator switchboard
Hydraulic power	Switchboard	Integrated type hydroelectric protection control device		1	Set	Miyata-mura, Kamiina County, Nagano Pref.	2019/9	2021/4	Kurokawa Hydroelectric Power Plant, new construction work, work on electrical main engine
Hydraulic power	Switchboard	Integrated type hydroelectric protection control device (C-1)	Ge protection control, Tr protection, TC	1	Set	Utsurogi, Aoi Ward, Shizuoka City, Shizuoka Pref.	2020/1	2025/1	Abegawa Hydroelectric Power Plant, new construction work, work on electrical main engine
Hydraulic power	Switchboard	Integrated type hydroelectric protection control device (C-1)	Ge protection control	1	Set	Miyakawa Daisan Hydroelectric Power Plant	2020/3	2022/11	Miyakawa Daisan Hydroelectric Power Plant, bulk repair of pump water turbine generators
Hydraulic power	Switchboard	Integrated type hydroelectric protection control device (C-1)	Ge protection control, Tr protection, TC	1	Set	Hakuba-mura, Kitaazumi County, Nagano Pref.	2019/4	2022/7	Futamata Hydroelectric Power Plant, bulk repair of pump water turbine generators
Hydraulic power	Switchboard	Integrated type hydroelectric protection control device (C-2)	Ge protection control, TC	1	Set	Miyata-mura, Kamiina County, Nagano Pref.	2019/6	2021/1	Shin-Ohtagiri Hydroelectric Power Plant, replacement of switchboard
Hydraulic power	Switchboard	Integrated type hydroelectric protection control device (C-2)	Ge protection control, TC, AVR	1	Set	Hakuba-mura, Kitaazumi County, Nagano Pref.	2019/4	2020/11	Shin-Kusugawa Hydroelectric Power Plant, replacement of switchboard
Hydraulic power	Switchboard	Integrated type hydroelectric protection control device (C-2)	Ge protection control	1	Set	Iitaka-Cho, Matsusaka City, Mie Pref.	2019/10	2021/8	Aota Hydroelectric Power Plant, replacement of switchboard
Hydraulic power	Switchboard	Integrated type hydroelectric protection control device (C-2)	Ge protection control, TC	1	Set	Komono-Cho, Mie County, Mie Pref.	2019/4	2020/12	Chigusa Hydroelectric Power Plant, replacement of switchboard
Hydraulic power	Switchboard	Integrated type hydroelectric protection control device (C-2)	Ge protection control, TC	1	Set	Achi-mura, Shimoina County, Nagano Pref.	2020/1	2021/8	Hirugami Hydroelectric Power Plant, replacement of switchboard
Hydraulic power	Switchboard	Integrated type hydroelectric protection control device (C-2)	Ge protection control, TC, AVR	1	Set	Karuizawa-Machi, Saku County, Nagano Pref.	2019/5	2020/12	Nagakura Hydroelectric Power Plant, replacement of switchboard
Hydraulic power	Switchboard	Integrated type hydroelectric protection control device (C-2)	Ge protection control, TC	1	Set	Hakuba-mura, Kitaazumi County, Nagano Pref.	2019/4	2021/5	Minaminomata Hydroelectric Power Plant, bulk repair of pump water turbine generators
Hydraulic power	Switchboard	Integrated type hydroelectric protection control device (C-2)	Ge protection control, TC, AVR	1	Set	Yamanouchi-Machi, Shimotakai County, Nagano Pref.	2019/11	2022/1	Hirao Daiichi Hydroelectric Power Plant, replacement of switchboard
Hydraulic power	Switchboard	Integrated type hydroelectric protection control device (C-2)	Ge protection control, TC, GOV, AVR	1	Set	Yamanouchi-Machi, Shimotakai County, Nagano Pref.	2019/5	2021/3	Hirao Daisan Hydroelectric Power Plant, replacement of switchboard
Hydraulic power	Switchboard	Integrated type hydroelectric protection control device (C-2)	Ge protection control, TC, AVR	1	Set	Yamanouchi-Machi, Shimotakai County, Nagano Pref.	2019/11	2022/1	Hirao Daini Hydroelectric Power Plant, replacement of switchboard
Hydraulic power	Switchboard	Integrated type hydroelectric protection control device (C-4)	Ge protection control	1	Set	Yokoyama Hydroelectric Power Plant	2020/3	2022/3	Yokoyama Hydroelectric Power Plant Unit 1, replacement of generator switchboard
Hydraulic power	Transformer	77kV GIS	Rated value: 800A, breaking capacity: 20kA	1	unit	Hakuba-mura, Kitaazumi County, Nagano Pref.	2019/4	2022/7	Futamata Hydroelectric Power Plant, bulk repair of pump water turbine generators
Hydraulic power	Transformer	77kV major transformer	77/10.5kV 11MVA	1	Set	Kawabe Hydroelectric Power Plant	2019/7	2021/3	Kawabe Hydroelectric Power Plant, replacement of 1B major transformer etc.
Hydraulic power	Transformer	Major transformer 77/6.6 10MVA Tr	Δ—Δ Hard wiring	1	unit	Hakuba-mura, Kitaazumi County, Nagano Pref.	2019/4	2022/7	Futamata Hydroelectric Power Plant, bulk repair of pump water turbine generators
Hydraulic power	Dam management equipment	Processor	Dam control computer etc.	1	Set	Ondaicho, Taki County, Mie Pref.	2019/5	2021/3	Mie Hydro Administration Center, replacement of computers for dam control equipment
Hydraulic power	Others	Elevator	Takane Daiichi water intake port elevator	1	Set	Takane-Machi, Takayama City, Gifu Pref.	2019/4	2019/12	Takane Daiichi Hydroelectric Power Plant, replacement of water intake port elevator
Hydraulic power	Others	Crane, repair materials	Ceiling crane repair articles	1	Set	Matsukawa-Cho, Shimoina County, Nagano Pref.	2019/4	2019/10	Ikuta Hydroelectric Power Plant, repair of ceiling crane
Hydraulic power	Others	Yahagi Daiichi Hydroelectric Power Plant, manufacturing of communication steel tower included in the repair of outdoor equipment	Wireless steel tower material	1	Set	Yahagi Daiichi Hydroelectric Power Plant	Pending	2019/6	Yahagi Daiichi Hydroelectric Power Plant, repair of outdoor equipment
Hydraulic power	Others	Emergency generator, diesel type	including 1,500kVA control panel	1	Set	Neo, Motosu City, Gifu Pref.	2019/4	2020/2	Okumino Hydroelectric Power Plant, replacement of aboveground Main Office EG
Hydraulic power	Others	Backup power system	3-phase 220V, 450kVA	1	Set	Hiraoka, Tenryu-mura, Shimoina County, Nagano Pref.	2020/1	2021/1	Hiraoka Hydroelectric Power Plant, replacement of backup power system
Wind power	Others	Windmill, power generator and attachments for	4,000kW-grade windmill, 2 units	1	Set	Tahara City, Aichi Pref.	2019/4	2022/1	Atsumi Wind Power Plant (tentative name), new construction work, work on electrical main engine