

## Procurement Plan for Electric Power Facilities

(Category: Equipment and materials for thermal and geothermal power stations)

(All of information of this plan are subject to change without notice. There may be cases that procurement procedure are in progress at time of release of this plan.)

No.	Description and Specifications			Quantity	Unit	Requesting Office/Station	Month of quotation	Month of delivery	Conditions of Delivery
1	Insulator washing systems	Shinkokura Unit 3 main transformer, insulator washing device for the watt-hour meter of the Unit 2 main transformer and others	Insulator washing work for Unit 3 main transformer and Unit 2 starting transformer watt-hour meter	1	set	Shin Kokura Thermal Power Station	Dec-2023	Jun-2024	Completion of test run
2	Equipment and materials for thermal power plants (facilities for exhaust gas desulfurization system)	Reihoku Unit 2, absorption tower circulation pump and other parts	Reihoku Unit 2, absorption tower circulation pump and other parts	1	set	Reihoku Thermal Power Station	Aug-2023	Feb-2024	Delivery
3	Equipment and materials for thermal power plants (facilities for exhaust gas desulfurization system)	Reihoku-Unit 1, DSF component	Reihoku-Unit 1, DSF component	1	set	Reihoku Thermal Power Station	Nov-2023	Feb-2025	Delivery
4	Equipment and materials for thermal power plants (facilities for exhaust gas desulfurization system)	Reihoku-Unit 1, repair for DSF rotating part overhaul and repair	Reihoku-Unit 1, repair for DSF rotating part overhaul and repair	1	set	Reihoku Thermal Power Station	Nov-2023	Jun-2025	Completion of test run
5	Equipment and materials for thermal power plants (electrical equipment)	Matsuura Unit 1, update for electrostatic dust collector high-voltage rectifier transformer	High voltage rectifier transformer, high voltage ground switch, installation adjustment test	1	set	Matsuura Thermal Power Station	Oct-2023	Dec-2024	Completion of test run
6	Equipment and materials for thermal power plants (electrical equipment)	Shin-Oita Unit 2 series, metal clad protection relay	Metal clad protection relay, etc.	1	set	Shin Oita Thermal Power Station	Oct-2023	Dec-2025	Completion of test run
7	Equipment and materials for thermal power plants (boilers)	Matsuura Unit 1, APC controller, etc. detailed inspection and repair	820 Module replacement and power supply inspection	1	set	Matsuura Thermal Power Station	Jun-2024	Aug-2025	Free on Truck
8	Equipment and materials for thermal power plants (boilers)	Component for repairing Shin-Oita 2-3 shaft HRSG inlet casing	HRSG inlet casing	1	set	Shin Oita Thermal Power Station	Feb-2024	Dec-2024	Completion of test run
9	Equipment and materials for thermal power plants (boilers)	Inspection of ash-wearing parts of Reihoku Unit 2 boiler pressure parts, etc.	Inspection of ash-wearing parts of Reihoku Unit 2 boiler pressure parts, etc.	1	set	Reihoku Thermal Power Station	Oct-2023	Jul-2024	Completion of test run
10	Equipment and materials for thermal power plants (boilers)	Inspection and repair of Reihoku Unit 2 boiler furnace evaporator	Inspection and repair of Reihoku Unit 2 boiler furnace evaporator	1	set	Reihoku Thermal Power Station	Oct-2023	Jul-2024	Completion of test run
11	Equipment and materials for thermal power plants (boilers)	Inspection of Reihoku Unit 2 boiler SH spray attemperator, etc.	Inspection of Reihoku Unit 2 boiler SH spray attemperator, etc.	1	set	Reihoku Thermal Power Station	Oct-2023	Jul-2024	Completion of test run
12	Equipment and materials for thermal power plants (turbines/generators)	Shin-Oita Unit 2 series, automatic synchronization system	Automatic synchronization device, etc.	1	set	Shin Oita Thermal Power Station	Jun-2023	Nov-2025	Completion of test run
13	Equipment and materials for thermal power plants (turbines/generators)	Shin-Oita Unit 3-1 series, ST diaphragm jet inspection and repair	Repair for nozzle hole crack and corrosion area	1	set	Shin Oita Thermal Power Station	Jun-2023	Nov-2023	Free on Truck
14	Equipment and materials for thermal power plants (turbines/generators)	Shin-Oita 3-1 shaft, GT torque converter	Purchase of parts for inspection, detailed inspection of torque converter, and transportation of torque converter	1	set	Shin Oita Thermal Power Station	Aug-2023	Jul-2024	Completion of repair
15	Equipment and materials for thermal power plants (turbines/generators)	Shin-Oita 2-3 shaft turbine monitoring instrument	Turbine monitoring instrument monitor card, etc.	1	set	Shin Oita Thermal Power Station	Sep-2023	Dec-2025	Completion of test run

## Procurement Plan for Electric Power Facilities

(Category: Equipment and materials for thermal and geothermal power stations)

(All of information of this plan are subject to change without notice. There may be cases that procurement procedure are in progress at time of release of this plan.)

No.	Description and Specifications			Quantity	Unit	Requesting Office/Station	Month of quotation	Month of delivery	Conditions of Delivery
16	Equipment and materials for thermal power plants (turbines/generators)	Shin-Oita, Unit 3 series, ST rotor, other inspection and repair	Purchase of parts for inspection, ST rotor detailed inspection, ST cabin detailed inspection, ST rotor transportation	1	set	Shin Oita Thermal Power Station	Oct-2023	Jul-2024	Free on Truck
17	Equipment and materials for thermal power plants (turbines/generators)	Shin-Oita Unit 3-1 series, ST diaphragm jet inspection and repair	Repair for nozzle hole crack and corrosion area	1	set	Shin Oita Thermal Power Station	Jan-2024	Jul-2024	Free on Truck
18	Equipment and materials for thermal power plants (turbines/generators)	Shin-Oita 3-4 shaft GT intake air filter	Purchase of GT intake air filter	1	set	Shin Oita Thermal Power Station	Feb-2024	Nov-2024	Free on Truck
19	Equipment and materials for thermal power plants (turbines/generators)	Reihoku Unit 2, thyristor rectifier	Reihoku power station, Unit 2, improvement work for thyristor rectifier	1	set	Reihoku Thermal Power Station	Jun-2023	Jul-2027	Completion of test run
20	Equipment and materials for thermal power plants (turbines/generators)	Reihoku Unit 1, low-pressure No. 3 feed water heater	Reihoku Unit 1, improvement work for low pressure No. 3 water supply heater	1	set	Reihoku Thermal Power Station	Jan-2024	Jul-2025	Completion of test run
21	Equipment and materials for thermal power plants (turbines/generators)	Reihoku Unit 1, generator, main transformer, onsite transformer protection relay board	Reihoku power station, Unit 1, improvement work for generator main transformer onsite transformer protection relay board	1	set	Reihoku Thermal Power Station	Apr-2024	Jul-2025	Completion of test run
22	Mechanical devices	Shin-Oita 1-6 shaft motor-operated valve actuator	Motor-operated valve actuators x 19	1	set	Shin Oita Thermal Power Station	Jun-2023	Jun-2024	Free on Truck
23	Power cables for transmission lines and substations	66 kV, CV cable (including accessories)	200 sq x 100 m, in-gas bushing connection processing x 9	1	set	Takigami Geothermal Power Station	Jun-2023	Jun-2024	Completion of test run
24	Equipment and materials for geothermal power plants (control facilities)	Yamakawa power station, Unit 1, improvement work of generator exciting device	Renewal of generator exciting device	1	set	Yamagawa Geothermal Power Station	Oct-2023	Nov-2026	Completion of test run
25	Equipment and materials for geothermal power plants (control facilities)	Kirishima-Eboshidake binary power station, purchase and installation of communication equipment for installation work	Communication equipment (Eboshidake-binary to Oogiri power station)	1	set	Kirishima Eboshidake Geothermal Binary Power Station	Dec-2023	Oct-2025	Installation, adjustment and field test
26	equipment and materials for geothermal power plants (equipment of steam system)	Steel pipe for oil well	20-inch, 13-3/8, 9-5/8 steel pipe for oil well	1	set	Otake Geothermal Power Station	Sep-2023	Mar-2024	Delivery
27	equipment and materials for geothermal power plants (equipment of steam system)	Kirishima-Eboshidake binary power station, purchase of steam separator and other steaming equipment for installation work	1 steam separator, 1 hot water tank, 1 separator	1	set	Kirishima Eboshidake Geothermal Binary Power Station	Dec-2023	Jun-2025	Free on Truck
28	equipment and materials for geothermal power plants (equipment of steam system)	Kirishima-Eboshidake binary power station, purchase of reduction pump for installation work	3 reduction pumps	1	set	Kirishima Eboshidake Geothermal Binary Power Station	Dec-2023	Jun-2025	Free on Truck
29	Equipment and materials for geothermal power plants (turbines/generators)	MSV/GV valve rod and valve body	Manufacturing of MSV/GV valve rod and valve body, etc.	1	set	Hatchobaru Geothermal Power Station	Apr-2024	Oct-2025	Delivery