

# The Chugoku Electric Power Co., Inc.

## Main Material/Equipment Procurement Plan

(FY 2021)

### **Related to Power Sources and Retails Sales Business**

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## The Chugoku Electric Power Co., Inc. Main Material/Equipment Procurement Plan(FY 2021)Related to Power Sources and Retails Sales Business

### [Article purchasing] 129 item(s)

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General material/equipment (14 item(s))

No	Facilities Classification	Item Name	Article Name	Qty.	Unit	Delivery Location	Scheduled Procurement Date	Delivery Deadline	Contract Group (Scheduled)	
1	Wires/Cables	Power cable (Included with works)	Replacement of MTR secondary power cable of Units 1 and 2 (220-kV CV 800 sq, air-insulated termination junction boxes, support hardware, on-site installation and adjustment)	1	Set	Nabara Power Station	202109	202412	Corporate Finance and Procurement Div. (Materials and equipment procurement)	
2	Industrial chemicals and oils/greases	Turbine oil	Purchase of Unit 3 turbine oil	1	Set	Tamashima Power Station	202203	202205		
3			Purchase of Unit 2 turbine oil (Shell Turbo J32)	31,850	L	Shinonoda Power Station	202203	202204		
4	consumables and misc. items	Furnitures/Tools	Diamond saw (Luxo, ME400-equivalent product)	1	Unit	Energia Economic and Technical Research Institute	202106	202110		
5				Lab benches (Central lab benches (W3000 D1500 H800, resistant to chemicals, and equipped with outlets, lighting, and glass doors): 3 benches; Side sinks for Central lab benches: 3 sinks; Side lab benches, etc.: 29 benches, and including installation, conduit piping, and electric power connection works)	1	Set	Energia Economic and Technical Research Institute	202109		202203
6	Electrical products		Purchase of LED lighting fittings (LED lighting fittings: Approx. 1,585 lights (For T/B))	1,585	Unit	Shimane Nuclear Power Station	202105	202109	Shimane Nuclear Power Station General Affairs Sect.	
7				Purchase of LED lighting fittings (LED lighting fittings (For outdoor use)) (Fluorescent lamps: Approx. 550 units for replacement)	550	Unit	Shimane Nuclear Power Station	202106		202109
8				Purchase of LED lighting fittings (LED lighting fittings (For outdoor use)) (Mercury lamps: Approx. 160 units for replacement)	100	Unit	Shimane Nuclear Power Station	202106		202109
9	Other consumables and misc. items		Purchase of sanitary materials (masks) (Non-woven fabric with a bacteria filtration rate of 95% or more, equipped with nose bridge strip, 50 masks/box, one-size-fits-all)	538,800	Mask	Location specified by Chugoku Electric	202108	202110	Corporate Finance and Procurement Div. (Materials and equipment procurement)	
10				Purchase of decontamination equipment for clearance	1	Set	Shimane Nuclear Power Station	202104	202110	Shimane Nuclear Power Station General Affairs Sect.
11				Purchase of fume collectors	2	Unit	Shimane Nuclear Power Station	202104	202110	
12				Purchase of fire extinguishers (including stands)	1	Set	Shimane Nuclear Power Station	202104	202203	
13				Purchase of manifolds and related equipment for large firefighting trucks equipped with water pumps	1	Set	Shimane Nuclear Power Station	202106	202110	
14			Purchase of lab benches for radiochemical analysis labs (non-flammable specifications)	1	Set	Shimane Nuclear Power Station	202108	202204		

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Thermal power/nuclear power equipment(59item(s))

№	Facilities Classification	Item Name	Article Name	Qty.	Unit	Delivery Location	Scheduled Procurement Date	Delivery Deadline	Contract Group (Scheduled)
1	Thermal power equipment	Gas turbines	13th routine inspection works of Shaft 2-4 (Purchase of parts for GT-related inspection)	1	Set	Yanai Power Station	202104	202201	Corporate Finance and Procurement Div. (Power source equipment procurement)
2			13th routine inspection works of Shaft 2-4 (Purchase of GT secondary and tertiary air filters)	1	Set	Yanai Power Station	202104	202202	
3			Purchase of Unit 2 system GT and combustor accessory parts (2021) (Purchase of accessory parts of transition piece and stationary blade, and shroud)	1	Set	Yanai Power Station	202104	202203	
4			Repair for Unit 2 system GT 1st stage moving blade (D3)	1	Set	Yanai Power Station	202104	202204	
5			Repair for Unit 2 system 3rd stage stationary blade (C1) (Heat treatment/deform repair (Repairs to extend service life))	1	Set	Yanai Power Station	202104	202210	
6			Repair for Unit 2 system combustor antechamber (N2)	1	Set	Yanai Power Station	202105	202110	
7			Repair for Unit 2 system GT combustor (2-3-13 periodic inspection)	1	Set	Yanai Power Station	202107	202112	
8			Second repair for Unit 2 system 1st stage stationary blade (D2) (Welding repair)	1	Set	Yanai Power Station	202108	202204	
9			Repair for Unit 2 system combustor antechamber (S1)	1	Set	Yanai Power Station	202110	202203	
10			15th routine inspection works of Shaft 2-2 (Purchase of parts for GT-related inspection)	1	Set	Yanai Power Station	202110	202206	
11			Purchase of Unit 2 system GT 1st stage moving blade (C3)	1	Set	Yanai Power Station	202112	202304	
12			First repair for Unit 2 system 1st stage stationary blade (C2) (Welding repair)	1	Set	Yanai Power Station	202201	202208	
13			Repair for Unit 2 system GT combustor (2-4-13 periodic inspection)	1	Set	Yanai Power Station	202202	202208	
14			15th routine inspection works of Shaft 2-1 (Purchase of parts for GT-related inspection)	1	Set	Yanai Power Station	202202	202210	
15		Boiler	Purchase of breakers for dust prevention system of pier	1	Set	Misumi Power Station	202104	202209	
16			Heavy-load period pre-inspection of Unit 1 boiler facilities (2022) (Parts for clinker crusher of ash treatment facility)	1	Set	Misumi Power Station	202110	202204	
17		Pumps	Purchase of No. 1 ship loader swing reducer (Model: RDH44-BNN-140; Reduction ratio: 1/145.030; Input dynamic power: 5.5 kW, 100.58 rpm; W830*D1864*H975; Forced oil lubrication type (Trochoid pump))	1	Set	Shinonoda Power Station	202105	202203	
18			Factory repairs for C ash treatment pump (1. Pump disassembled inspection; 2. Pump casing interior substrate treatment; 3. Pump casing interior coating repair; 4. Impeller balance adjustment; 5. Consumables and sliding parts replacement; 6. Impeller replacement; 7. Dynamic balance adjustment/assembly)	1	Set	Shinonoda Power Station	202112	202205	
19		Measurement control system	Repair works of Unit 3 desulfurization inlet SO2 meter	1	Set	Tamashima Power Station	202110	202207	
20			Repair works of Unit 2 desulfurization inlet SO2 meter (Parts equivalent to existing Horiba ENDA-2130)	1	Set	Tamashima Power Station	202112	202210	
21			Repair works of Unit 2 denitration gas analyzer	1	Set	Shinonoda Power Station	202106	202206	
22			Replacement works of all nitrogen and phosphorous meters of general wastewater tanks	1	Set	Shinonoda Power Station	202108	202205	

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23	Thermal power equipment	Water-treatment equipment, and equipment for condensate, seawater, and feed-water systems	Purchase of electrolytic cell electrodes for Unit 2 seawater electrolytic equipment (Positive electrodes are Ti and coated with precious metal; Negative electrodes are SUS 316L; Consumables sufficient for 12 tanks)	1	Set	Shinonoda Power Station	202112	202206	Corporate Finance and Procurement Div. (Power source equipment procurement)	
24			Repair works of Shaft 1-5 condenser cooling tubes (Aluminum brass pipes: 1,067 pipes)	1	Set	Yanai Power Station	202108	202203		
25			Repair works of Shaft 1-4 condenser cooling tubes (Aluminum brass pipes: 1,067 pipes)	1	Set	Yanai Power Station	202111	202208		
26		Coal and petroleum-related equipment		Periodic inspection and repair works of Unit 1 pulverized coal combustor (Journal roller factory repair (1st half of 2022))	1	Set	Shimonoseki Power Station	202108		202204
27				Periodic inspection and repair works of Unit 1 pulverized coal combustor (Purchase of bull rings, etc. (1st half of 2022))	1	Set	Shimonoseki Power Station	202108		202208
28				Periodic inspection and repair works of Unit 1 pulverized coal combustor (Journal roller factory repair (2nd half of 2022))	1	Set	Shimonoseki Power Station	202108		202210
29				Periodic inspection and repair works of Unit 1 pulverized coal combustor (Purchase of bull rings, etc.; 2nd half of 2022)	1	Set	Shimonoseki Power Station	202108		202303
30				Purchase of belts for coal handling 4-1A and other conveyors	1	Set	Misumi Power Station	202104		202112
31				Purchase of stock motors for coal storage and handling equipment	1	Set	Misumi Power Station	202104		202201
32				Purchase of coal handling 21 conveyor belt	1	Set	Misumi Power Station	202108		202204
33				Repair works of moisture sample storage equipment for reduction equipment on the coal-receiving side	1	Set	Misumi Power Station	202108		202206
34				Reducer repair as part of repair works (factory repair) for coal unloader spare parts	1	Set	Misumi Power Station	202110		202210
35				Hydraulic equipment repair as part of repair works (factory repair) for coal unloader spare parts	1	Set	Misumi Power Station	202110		202210
36	Purchase of repair parts of fly ash dustless unloader A (1. Dustless unloader drum (with chain wheel); 2. Thrust roller; 3. Support roller)	1	Set	Shinonoda Power Station	202104	202112				
37	Purchase of coal handling 9A/B-1 conveyor rollers	1	Set	Shinonoda Power Station	202109	202207				
38	Purchase of repair parts of fly ash dustless unloaders B and C (1. Dustless unloader drum (with chain wheel); 2. Thrust roller; 3. Support roller)	1	Set	Shinonoda Power Station	202202	202211				
39	Combustion fuel equipment	Repair works of LNG equipment pipe supports (FY 2021)	1	Set	Yanai Power Station	202105	202202			
40		Replacement works of radio control equipment for LNG reception loading arm	1	Set	Yanai Power Station	202110	202209			
41	Smoke exhaust treatment equipment	Purchase of low temperature layer elements as part of diaphragm repair works on the low temperature side of Unit 2 desulfurization GGH (C/D low temperature layer element basket 1.2-t BKT CRLS (24 sectors x 2 towers))	1	Set	Shinonoda Power Station	202105	202206			
42	Valve purchase, repair and inspection	Repair works of valves related to Unit 3 demineralizer	1	Set	Tamashima Power Station	202110	202202			

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43	Thermal power equipment	Other equipment for power generation	Repair works of rapping devices, etc. for electrostatic precipitators of Unit 2 (Hinge bolts for rapping devices of discharge and collecting electrodes: 200 sets each)	1	Set	Shinonoda Power Station	202107	202203	Corporate Finance and Procurement Div. (Power source equipment procurement)
44			Inspection parts of ash handling equipment as part of Unit 2 intermediate inspection works (5th inspection)-1 (1. Clinker crusher parts; 2. Ash runout piping for clinker treatment equipment; 3. Fly ash handling system parts etc.)	1	Set	Shinonoda Power Station	202108	202203	
45			Replacement and repair works of Unit 1 system GT primary air filter (Purchase of GT primary air filter)	1	Set	Yanai Power Station	202104	202111	
46			PLC of water purification equipment with pre-industrial wastewater treatment	1	Set	Yanai Power Station	202105	202109	
47			15th routine inspection works of Shaft 1-5 (Purchase of GT secondary and tertiary air filters)	1	Set	Yanai Power Station	202109	202204	
48			15th routine inspection works of Shaft 1-4 (Purchase of GT secondary and tertiary air filters)	1	Set	Yanai Power Station	202201	202208	
49			Other equipment	Repair works of outdoor equipment L/C circuit breakers (2021)	1	Set	Misumi Power Station	202104	
50		Purchase of lighting fittings for coal silo lower sections (FY 2021) (Purchase of dust explosion-proof type LED lighting fittings: 171 units)		1	Set	Misumi Power Station	202107	202201	
51		Purchase of lighting fittings for coal silo lower sections (FY 2022) (Purchase of dust explosion-proof type LED lighting fittings: 177 units)		1	Set	Misumi Power Station	202201	202206	
52		Repair works of Unit 2 station L/C protective relays (Replacement works of 64, 27, and 67 protective relays (A/B and emergency station L/C use))		1	Set	Shinonoda Power Station	202105	202207	
53		Insulation aging repair of Unit 2 high-voltage motor (Vacuum impregnation of high-voltage motor: 3 units; Stator coil replacement: 1 unit)		1	Set	Shinonoda Power Station	202107	202207	
54		Replacement works of Unit 1 metal-clad circuit breaker (2nd half of year) (Metal-clad circuit breaker and protective relay)		1	Set	Shinonoda Power Station	202112	202307	
55		Replacement works of Unit 1 desulfurization metal-clad circuit breaker (Desulfurization metal-clad circuit breaker and protective relay)		1	Set	Shinonoda Power Station	202112	202307	
56		Nuclear power equipment	Other equipment	Purchase of gamma camera (Special equipment)	1	Unit	Shimane Nuclear Power Station	202104	
57	Purchase of dust sampler for low flow rates (Special equipment)			4	Unit	Shimane Nuclear Power Station	202107	202112	
58	Purchase of container as part of installation works of Unit 2 emergency response area (Provisional name)			1	Set	Shimane Nuclear Power Station	202108	202203	
59	Purchase of portable Ge semiconductor detector for piping analysis			1	Set	Shimane Nuclear Power Station	202111	202206	

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Hydro-power/civil engineering/internal combustion equipment (45item(s))

No	Facilities Classification	Item Name	Article Name	Unit	Delivery Location	Scheduled Procurement Date	Delivery Deadline	Contract Group (Scheduled)
1	Hydro-power/civil engineering equipment	Sluice gates/Hoists	Replacement works of spillway gate remote operating panel for Shin-Nariwagawa Dam	Set	Shinnariwagawa Power Station	202105	202201	Corporate Finance and Procurement Div. (Power source equipment procurement)
2			Replacement works of water temperature meters for Shin-Nariwagawa Dam	Set	Shinnariwagawa Power Station	202107	202201	
3			Replacement works of opening angle indicators for Spillway Gates 1 and 2 of Taishakugawa Dam	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	202105	202203	
4			Replacement works of opening angle indicators for sand-removal gates of Settling Basin 1 of Fukumasugawa Dam	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	202106	202203	
5			Replacement works of image transmission equipment of Taishakugawa Dam	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	202107	202203	
6			Replacement works of intake gate switching gear (Intake gate switching gear replacement: 1 unit; Local operating panel replacement: 1 panel)	Unit	Okutsu-Suisou Power Station	202109	202210	
7			Replacement works of Ikumo Dam spillway gate (Mechanical works) (Spillway gate replacement: Steel roller gate (Clear span 5.0 m x Door height 6.2 m) 2 gates)	Set	Choumonkyo Power Station	202203	202506	
8	Other hydro-power equipment		Replacement works of Unit 1 automatic voltage regulator (Automatic voltage regulator: 1 regulator)	Panel	Yasuno Power Station	202108	202301	
9			Replacement works of Unit 1 governor (Governor control panel: 1 panel; Electric servomotor: 1 servomotor)	Set	Yasuno Power Station	202108	202301	
10			Replacement works of Unit 1 generator panel, etc. (Generator panel: 1 panel; Hydraulic turbine auxiliary panel: 1 panel)	Set	Yasuno Power Station	202108	202301	
11			Replacement works of Unit 1 generator panel, etc. (Generator protective relay panel: 1 panel)	Panel	Yasuno Power Station	202108	202301	
12			Replacement works of incoming panel (1 panel)	Panel	Yasuno Power Station	202108	202301	
13			Installation works of DC power source for Higashidani Dam (1 unit)	Unit	Okutsu-Suisou Power Station	202109	202208	
14			Installation works of transfer circuit breaker equipment (Transfer circuit breaker unit (transmission) Okutsu (S/S): 1 unit; Transfer circuit breaker unit (reception) Okutsu-Suisou (P/S): 1 unit)	Set	Okutsu-Suisou Power Station	202110	202210	
15			Replacement works of generator control panel (1 panel)	Set	Okutsu-Suisou Power Station	202110	202210	
16			Modification works (Station AC panelboard: 1 panelboard; Station DC panelboard: 1 panelboard; Panelboard for work: 2 panelboards)	Set	Okutsu Power Station	202104	202211	
17			Modification works (Transfer circuit breaker equipment (reception): 1 unit; CDT: 1 unit; Protective device: 1 unit)	Set	Okutsu Power Station	202106	202301	
18			Modification works (Individual detector panel: 1 panel)	Set	Okutsu Power Station	202106	202303	
19			Replacement works of Unit 1 generator control panel, etc. (Generator control panel: 1 panel; Generator relay panel: 1 panel; Adjustment; Trial operation)	Set	Ottachi Power Station	202107	202209	

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Hydro-power/civil engineering/internal combustion equipment (45item(s))

No	Facilities Classification	Item Name	Article Name	Unit	Delivery Location	Scheduled Procurement Date	Delivery Deadline	Contract Group (Scheduled)
20	Hydro-power/civil engineering equipment	Other hydro-power equipment	Replacement works of station panel, etc. (Station panel: 1 panel; Individual detector panel: 1 panel; Common panel: 1 panel)	Set	Ottachi Power Station	202107	202209	Corporate Finance and Procurement Div. (Power source equipment procurement)
21			Installation works of 11-kV station Tr primary FDS (SWG: 1 box; 11-kV; FDS: 600 A, 3-phase; 2-m bus duct)	Set	Yoshigase Power Station	202106	202209	
22			Replacement works of station failure indicator panel for Kurouchi Intake Dam	Set	Kurusugawa Power Station	202106	202203	
23			Units 1 and 2 automatic control panels	Set	Hiro Power Station	202107	202212	
24			Replacement of Unit 1 generator stators (Vertical shaft synchronous generator)	Set	Hiro Power Station	202109	202212	
25			Replacement works of TM radio of Omiya Dam	Set	Kurosaka Power Station	202104	202203	
26			Replacement works of AVR panel (Automatic voltage regulator panel)	Set	Sasanamigawa Power Station	202107	202212	
27			Replacement works of governor panel, etc. (Servomotor, governor panel, governor control panel)	Set	Sasanamigawa Power Station	202107	202212	
28			Replacement works of generator relay panel, etc. (Generator relay panel, automatic synchronization panel, auxiliary equipment panel, feed water tank/outlet water-level gauge panel)	Set	Sasanamigawa Power Station	202108	202212	
29			Replacement works of Unit 1 cooling water automatic strainer, etc. (Unit 1 cooling water automatic strainer, sand-removal valve, cooling water tank water-level gauge)	Set	Mitoyagawa Power Station	202110	202210	
30			Replacement works of generator panel, etc. (Generator panel, generator relay panel, auxiliary equipment temperature panel, station panel)	Set	Oigawa-Daini Power Station	202201	202211	
31			Replacement works of oil lifters and auxiliary equipment panel (Oil lifter: 1 set)	Set	Tabara Power Station	202104	202203	
32			Replacement works of oil lifters and auxiliary equipment panel (Auxiliary equipment panel: 1 panel)	Panel	Tabara Power Station	202104	202203	
33			Replacement works of turbidity meter of Dani Water Level Gauging Station	Set	Uchinashi Power Station	202108	202203	
34			Replacement of turbidity/water temperature optical receiver of Masudamari Dam	Set	Doi Power Station	202108	202203	
35			Replacement works of turbidity meter of sand-removal gate of Masudamari Dam	Set	Doi Power Station	202108	202203	
36			Replacement works of Unit 2 generator box, etc. (11-kV SWG (VCT box, surge absorber box, generator box, NGR box) 4 boxes)	Set	Yubara-Daini Power Station	202109	202209	
37			Replacement/disposal works of Unit 2 generator RY panel (Unit 2 generator protective panel: 1 panel)	Set	Yubara-Daini Power Station	202110	202210	
38			Replacement of comprehensive disaster prevention monitoring panel (Replacement of the receiver panel of the automatic fire detection system (digital system))	Set	Nabara Power Station	202104	202110	



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Hydro-power/civil engineering/internal combustion equipment (45item(s))

No	Facilities Classification	Item Name	Article Name	Unit	Delivery Location	Scheduled Procurement Date	Delivery Deadline	Contract Group (Scheduled)
39	Hydro-power/civil engineering equipment	Other hydro-power equipment	Replacement of fire alarms for Units 1 and 2 MTr rooms (Digital system)	Set	Nabara Power Station	202104	202110	Corporate Finance and Procurement Div. (Power source equipment procurement)
40			Replacement works of DC power source for Nakabara Rain Gauge Station (Rectifier, storage battery)	Set	Hattou Power Station	202105	202112	
41			Modification works (Main transformer protective panel (87 not installed))	Set	Kitahara Power Station	202109	202301	
42			Modification works (Station switchboard (200 V AC, 100 V AC, 100 V DC), distribution box for outdoor work)	Set	Kitahara Power Station	202109	202301	
43			Modification works (Drainage system (drainage/jet pumps, oil separators, oil leak detectors), drainage pump control panel, oil spill prevention panel)	Set	Kitahara Power Station	202109	202304	
44			Replacement of common strainers for Units 1 and 2 (For MTr: 2 strainers; For general service water: 2 strainers; For compressors: 2 strainers)	Piece	Matanogawa Power Station	202104	202109	
45		Other hydro-power equipment (Repair/Inspection)	Replacement works of hydraulic turbine shafts and generator stators	Set	Ottachi Power Station	202108	202212	

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Equipment for electric power (5 item(s))

No	Facilities Classification	Item Name	Article Name	Qty.	Unit	Delivery Location	Scheduled Procurement Date	Delivery Deadline	Contract Group (Scheduled)
1	Equipment for electric power	Unit-enclosed switchboard	Unit 2 generator switchgear (7.2-kV SWG (3 switchgears, (1) VCT; (2) Parallel CB; (3) GPT/SA))	1	Set	Manohira Power Station	202104	202212	Corporate Finance and Procurement Div. (Materials and equipment procurement)
2			Replacement works of 6-kV generator SWG, etc. (6-kV switchgear: 1 box)	1	Set	Oigawa-Daini Power Station	202201	202211	
3	Switchgear	Gas circuit breakers	Replacement works of 110-kV #1 MTr secondary #521 CB, etc. (GCB: 1 circuit breaker (Specs: 120 kV, 1.2 kA, 25 kA))	1	Unit	Ushio Power Station	202108	202303	
4			Replacement works of 110-kV #2 MTr secondary #522 CB, etc. (GCB: 1 circuit breaker (Specs: 120 kV, 1.2 kA, 25 kA))	1	Unit	Ushio Power Station	202108	202303	
5		Vacuum circuit breakers	Replacement of Sufugawa Guy 701 CB (72-kV vacuum circuit breakers (gasless); BCT summing 4-core; Accessories; 72 kV; 800 A; Salt-resistance category: 0.01; 20 kA)	1	Unit	Sufugawa-Daiichi Power Station	202109	202210	

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Other equipment (6 item(s))

No	Facilities Classification	Item Name	Article Name	Qty.	Unit	Delivery Location	Scheduled Procurement Date	Delivery Deadline	Contract Group (Scheduled)
1	Other equipment	Chemical measurement equipment	Impulse generator (200 kV)	1	Unit	Location specified by Chugoku Electric (Hiroshima Pref.)	202105	202203	Corporate Finance and Procurement Div. (Materials and equipment procurement)
2		Other communication equipment	Replacement of business office wireless LAN (FY 2021) (Replacement of business office OANW wireless AP)	1	Set	Location specified by Chugoku Electric	202106	202203	
3			Replacement of business office wireless LAN (FY 2021) (Wireless AP and wireless controller)	1	Set	Location specified by Chugoku Electric	202106	202203	
4			Replacement of wireless authentication server	1	Set	Location specified by Chugoku Electric	202106	202203	
5			Replacement of business office wireless LAN (FY 2022) (Replacement of business office OANW wireless AP)	1	Set	Location specified by Chugoku Electric	202112	202303	
6			Replacement of business office wireless LAN (FY 2022) (Wireless AP)	1	Set	Location specified by Chugoku Electric	202112	202303	