

The Chugoku Electric Power Co., Inc.

Main Material/Equipment Procurement Plan

(FY 2019)

Related to Power Transmission Operations

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The Chugoku Electric Power Co., Inc. Main Material/Equipment Procurement Plan(FY 2019)Related to Power Transmission Operations

[Article purchasing] 444 item(s)

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General material/equipment (98 item(s))

No	Facilities Classification	Item Name	Article Name/Construction Name/Work Task Name	Qty.	Unit	Delivery/Construction/ Implementation Locations	Scheduled Procurement Date	Delivery Deadline	Contract Group (Scheduled)
1	Steel towers, and iron and steel	Steel towers/Steel structures	Steel structure (Including design; For works to convert 66-kV transmission lines to two-circuit lines, etc.)	1	Set	Kawahara Substation	201904	201910	Corporate Finance and Procurement Div. (Materials and equipment procurement)
2	Steel towers, and iron and steel	Steel towers/Steel structures	Outdoor steel structure (For 3 TTr bus line maintenance)	1	Set	Yonago Substation	201907	202008	
3	Steel towers, and iron and steel	Steel towers/Steel structures	Modification materials for 18 towers (For line replacement works of 110-kV transmission line OPGW)	1	Set	Location specified by Chugoku Electric (Tottori Pref.)	202002	202006	
4	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials (2 new towers, 2 modified towers; For installation works of new 22-kV transmission lines)	2	Unit	Location specified by Chugoku Electric (Tottori Pref.)	202003	202009	
5	Steel towers, and iron and steel	Steel towers/Steel structures	Modification materials (Approx. amounts; For installation works of spacers between 220-kV transmission lines)	4	t	Location specified by Chugoku Electric (Shimane Pref.)	201906	201910	
6	Steel towers, and iron and steel	Steel towers/Steel structures	Steel structure for GW (Including design; For works such as distribution transformer No. 1 replacement)	2	Unit	Akatsuka Power Station	201906	201904	
7	Steel towers, and iron and steel	Steel towers/Steel structures	Rack for 110-kV CV (Including design; For works such as distribution transformer No. 1 replacement)	1	Unit	Akatsuka Power Station	201908	201904	
8	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials for 2 towers (For reconstruction works of aged steel towers of 66-kV transmission lines)	27	t	Location specified by Chugoku Electric (Shimane Pref.)	201908	202002	
9	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials for 3 towers, modification materials for 1 tower (For installation works of new 66-kV transmission lines)	40	t	Location specified by Chugoku Electric (Shimane Pref.)	202002	202007	
10	Steel towers, and iron and steel	Steel towers/Steel structures	Modification materials for 3 towers (Angled, 1.0 tons; Including full-scale measurement; For works to change aerial power lines due to replacement of aged ocean-bed OF cables of 66-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	201904	201911	
11	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials for 17 towers (143.5 tons), modification materials for 1 tower, full-scale inspection of 1 tower (For installation works of new 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	201906	202006	
12	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials for 1 tower (17.5 tons; Including paint, etc.; For works to convert 66-kV transmission lines to two-circuit lines, etc.)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	201907	201912	
13	Steel towers, and iron and steel	Steel towers/Steel structures	Modification materials, full-scale inspection (For works to convert 66-kV transmission lines to two-circuit lines)	1	Set	Location specified by Chugoku Electric (Yamaguchi Pref.)	201908	202003	
14	Steel towers, and iron and steel	Steel towers/Steel structures	Bus steel structure, etc. (110-kV anchor posts for two towers, bus posts for 3 towers, bus beams for 7 towers, SP poles for 2 towers; Inspection of existing steel structures; For expansion works of 110-kV interconnection transformers)	1	Set	Ayabe Substation	201908	202003	
15	Steel towers, and iron and steel	Steel towers/Steel structures	Modification materials for 1 tower, full-scale inspection (For installation works of new 66-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	201908	202009	
16	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials (7 new towers/80.5 tons), modification materials (2 towers/1.0 tons), full-scale inspection (For installation works of new 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	201910	202005	
17	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials for 1 tower, and modification materials for 7 towers (For reinforcement works of some 110-kV transmission lines including paint etc.)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	202001	202007	
18	Steel towers, and iron and steel	Steel towers/Steel structures	Modification materials for 5 towers, full-scale inspection (For reinforcement works of some 66-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	202003	202008	
19	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials, modification materials, design of steel tower having legs of unequal length (For reconstruction works of aged steel towers of 110-kV transmission line steel towers)	53	t	Location specified by Chugoku Electric (Hiroshima Pref.)	201904	201908	
20	Steel towers, and iron and steel	Steel towers/Steel structures	Modification materials for 2 towers (For reinforcement works of 110-kV transmission line steel towers)	2	t	Location specified by Chugoku Electric (Hiroshima Pref.)	201904	201909	
21	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials, modification materials, full-scale inspection (For reconstruction works of aged steel towers of 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201905	201909	

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22	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials (Equal-angle steel; 17 new towers, 1 modified tower; For installation works of new 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201905	202001	Corporate Finance and Procurement Div. (Materials and equipment procurement)
23	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials for 11 towers (angled/371 tons), modification materials for 1 tower (angled/0.1 tons) (For reconstruction works of aged steel towers of 220-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201905	202005	
24	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials (angled/112.1 tons), modification materials (angled/0.1 t) (For reconstruction works of aged steel towers of 110-kV transmission lines)	112	t	Location specified by Chugoku Electric (Hiroshima Pref.)	201906	202003	Corporate Finance and Procurement Div. (Materials and equipment procurement)
25	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials (Equal-angle steel, 13 new towers, 1 modified tower; For installation works of new 110-kV transmission lines)	130	t	Location specified by Chugoku Electric (Hiroshima Pref.)	201906	202004	
26	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials (angled/62.8 tons), modification materials (angled/0.2 tons) (For installation works of new 110-kV transmission lines)	63	t	Location specified by Chugoku Electric (Hiroshima Pref.)	201908	202003	
27	Steel towers, and iron and steel	Steel towers/Steel structures	Modification materials for 3 towers (2.2 tons; Including full-scale inspection; For line replacement works of overhead 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201911	202005	
28	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials for 1 tower (For 22-kV distribution line steel towers; Fukuyama Service Office)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201912	202003	
29	Steel towers, and iron and steel	Steel towers/Steel structures	Modification materials for 11 towers (Equal angle steel; Including full-scale inspection; For reinforcement works of some 66-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201912	202004	
30	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials (angled/104.8 tons), modification materials (angled/1.0 tons) (For reconstruction works of aged steel towers of 110-kV transmission lines)	106	t		202001	202008	
31	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials (angled/29.9 tons), modification materials (angled/1.0 tons) (For installation works of new 66-kV transmission lines)	31	t	Location specified by Chugoku Electric (Hiroshima Pref.)	202001	202008	
32	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials (angled/43.6 tons), modification materials (angled/2.0 tons) (For reconstruction works of aged steel towers of 22-kV transmission lines)	46	t	Location specified by Chugoku Electric (Hiroshima Pref.)	202001	202008	
33	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials for 13 towers (Equal-angle steel, type 9; For installation works of new transmission lines)	80	t	Location specified by Chugoku Electric (Hiroshima Pref.)	202001	202008	
34	Steel towers, and iron and steel	Steel towers/Steel structures	Modification materials (3.0 tons; Full-scale inspection of 5 towers; For line replacement works of 22-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	202003	202010	
35	Steel towers, and iron and steel	Steel towers/Steel structures	Modification materials (3.7 tons; Full-scale inspection of 11 towers; For line replacement works of 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	202003	201910	
36	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials (angled) for 2 towers, modification materials for 1 tower (For installation works of new 66-kV transmission lines)	17	t	Location specified by Chugoku Electric (Yamaguchi Pref.)	201907	202003	
37	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials for 2 towers, modification materials for 1 tower (Including full-scale inspection; For reconstruction works of aged steel towers of 110-kV transmission)	22	t	Location specified by Chugoku Electric (Yamaguchi Pref.)	201907	202003	
38	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials for 14 towers (For installation works of new 110-kV transmission lines (Construction Zone 2))	380	t	Location specified by Chugoku Electric (Yamaguchi Pref.)	201907	202008	
39	Steel towers, and iron and steel	Steel towers/Steel structures	Modification materials (Angled; Steel cross arms for supporting cable head; For modification works of steel towers of 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Yamaguchi Pref.)	201907	202011	
40	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials (angled) for 1 tower, modification materials (For installation works of new 66-kV transmission lines)	15	t	Location specified by Chugoku Electric (Yamaguchi Pref.)	201908	202001	
41	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials (angled) for 10 towers, modification materials for 1 tower (For installation works of new 66-kV transmission lines)	85	t	Location specified by Chugoku Electric (Yamaguchi Pref.)	201909	202003	
42	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials (angled) for 1 tower, modification materials for 2 towers (For reconstruction works of aged steel towers of 66-kV transmission lines)	16	t	Location specified by Chugoku Electric (Yamaguchi Pref.)	201911	202008	
43	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials for 13 towers (For installation works of new 110-kV transmission lines (Construction Zone 1))	222	t	Location specified by Chugoku Electric (Yamaguchi Pref.)	201911	202009	
44	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials for 5 towers (For installation works of new 110-kV transmission lines)	112	t	Location specified by Chugoku Electric (Yamaguchi Pref.)	201911	202009	

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45	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials for 9 towers (For installation works of new 110-kV transmission lines (Construction Zone 2))	178	t	Location specified by Chugoku Electric (Yamaguchi Pref.)	201911	202009	Corporate Finance and Procurement Div. (Materials and equipment procurement)	
46	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials for 9 towers (For installation works of new 110-kV transmission lines (Construction Zone 3))	189	t	Location specified by Chugoku Electric (Yamaguchi Pref.)	201911	202009		
47	Steel towers, and iron and steel	Steel towers/Steel structures	Outdoor steel structures (4 posts, 5 beams; For line-drawing works of 110-kV transmission lines)	1	Set	Shin-Tokuyama Substation	201912	202101		
48	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials (angled) for 3 towers, modification materials for 1 tower (For installation works of new 110-kV transmission lines)	30	t	Location specified by Chugoku Electric (Yamaguchi Pref.)	202001	202008		
49	Steel towers, and iron and steel	Steel towers/Steel structures	Materials for 3 steel towers, modification materials for 3 tower (Including full-scale inspection; For reconstruction works of aged steel towers of 110-kV transmission lines)	38	t	Location specified by Chugoku Electric (Yamaguchi Pref.)	202002	202103		
50	Steel towers, and iron and steel	Steel towers/Steel structures	Anchor steel structures (3 posts, 2 beams; For line-drawing works of 110-kV transmission lines)	1	Set	Nanyo Substation	202003	202111	Corporate Finance and Procurement Div. (Materials and equipment procurement)	
51	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials for 11 towers (For installation works of new 110-kV transmission lines (Construction Zone 2))	125	t	Location specified by Chugoku Electric (Yamaguchi Pref.)	202101	202106		
52	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials for 12 towers (For installation works of new 110-kV transmission lines (Construction Zone 1))	136	t	Location specified by Chugoku Electric (Yamaguchi Pref.)	202101	202106		
53	Steel towers, and iron and steel	Steel towers/Steel structures	Steel tower materials for 7 towers, modification materials for 1 tower (For installation works of new 110-kV transmission lines (Construction Zone 3))	80	t	Location specified by Chugoku Electric (Yamaguchi Pref.)	202101	202106		
54	Steel towers, and iron and steel	Iron and steel equipment	MH internal hardware (junction box mounting hardware, SP aluminum cleats, standing hardware, etc.; For installation works of new transmission lines)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201910	202005		
55	Poles	Concrete Poles	Steel reinforced concrete pole (For installation works of new 22-kV transmission lines)	187	Poles	Location specified by Chugoku Electric (Tottori Pref.)	201908	202011		
56	Poles	Concrete Poles	Steel reinforced concrete pole, etc. (For installation works of new transmission lines)	about 40		Location specified by Chugoku Electric (Hiroshima Pref.)	202001	202006		
57	Insulators/Aerial line hardware	Extra-high voltage insulators	Suspension insulator (250 mm/1,419 insulators), long rod insulator (LC-8017: 24 insulators), long rod support insulator (SL-80172: 3 insulators, SL-95242: 6 insulators) (For reconstruction works of aged steel towers of 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Shimane Pref.)	202002	202008		Corporate Finance and Procurement Div. (Materials and equipment procurement)
58	Insulators/Aerial line hardware	Extra-high voltage insulators	Suspension insulator (250-mm clevis-type: 576 insulators), long rod insulator (LC-8017: 18 insulators), long rod insulator (LC-8013: 18 insulators), SP insulator (850A + 950B: 3 insulators) (For installation works of new 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	201911	202005		
59	Insulators/Aerial line hardware	Extra-high voltage insulators	Suspension insulator (250-mm: 4,182 insulators); SP insulator (SP-950 x 3: 6 sets) (For reconstruction works of aged steel towers of 220-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201906	202006		
60	Insulators/Aerial line hardware	Extra-high voltage insulators	Suspension insulator (250-mm salt-resistant: 816 insulators), SP insulator (under-rib: 12 sets), round wire clamp (12 clamps), shield ring (12 rings) (For insulator replacement works of 220-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201906	201902		
61	Insulators/Aerial line hardware	Extra-high voltage insulators	Long rod and SP insulators (For installation works of new 220/110-kV Tr)	1	Set	Shin-Yamaguchi Substation	201906	202002		
62	Insulators/Aerial line hardware	Extra-high voltage insulators	Suspension insulator (250-mm ball-socket type: 3,375 insulators), SP support insulator (SP-950B + 1150A: 30 sets; SP950B + 950A: 39 sets) (For installation works of new 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Yamaguchi Pref.)	201912	202008		
63	Insulators/Aerial line hardware	Aerial line hardware for extra high voltage	132 sets of single-line tension equipment, 6 sets of single-line suspension equipment, 40 sets of tension equipment for grounding conductors (Including arcing horn clamps; For reconstruction works of aged steel towers of 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Shimane Pref.)	202002	202008		
64	Insulators/Aerial line hardware	Aerial line hardware for extra high voltage	96 sets of single-line tension equipment (80-kN system), 6 sets of single-line suspension equipment (55-kN system), 2 sets of suspension equipment for grounding conductors (50-kN system), 32 sets of tension equipment for grounding conductors (80-kN system) (For installation works of new 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	202001	202008		

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65	Insulators/Aerial line hardware	Aerial line hardware for extra high voltage	Aerial line hardware (For repair works of 22-kV transmission line THDCC)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201904	201910	Corporate Finance and Procurement Div. (Materials and equipment procurement)
66	Insulators/Aerial line hardware	Aerial line hardware for extra high voltage	Double-line tension equipment (TA410, 60 sets of suspension insulators, 6 sets of long rod insulators) (For reconstruction works of aged steel towers of 220-kV transmission	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201905	201910	
67	Insulators/Aerial line hardware	Aerial line hardware for extra high voltage	Double-line tension equipment (For insulator replacement works of 220-kV transmission lines)	24	String	Location specified by Chugoku Electric (Hiroshima Pref.)	201906	201902	
68	Insulators/Aerial line hardware	Aerial line hardware for extra high voltage	96 sets of single-line tension equipment, 3 sets of single-line suspension equipment (For installation works of new 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201906	202002	
69	Insulators/Aerial line hardware	Aerial line hardware for extra high voltage	120 sets of double-line tension equipment (TA410: For suspension insulators), 6 sets of single-line suspension equipment (TA410: For suspension insulators), 60 sets of equipment installation hardware (TAW) (For reconstruction works of aged steel towers of 220-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201911	202006	
70	Insulators/Aerial line hardware	Other switchboards	102 sets of single-line tension equipment (12-ton system), 16 sets of tension equipment for grounding conductors (OP) (For reconstruction works of aged steel towers of 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201912	202007	
71	Insulators/Aerial line hardware	Aerial line hardware for extra high voltage	Double-line tension equipment (33-ton system; TACSR/AC410 x 2: 9 sets; TACSR/AC410 x 2: 10 sets; TACSR/AC410 x 2: 12 sets) Single-line suspension equipment (16.5-ton system; TACSR/AC410 x 2: 9 sets; TACSR/AC410 x 2: 12 sets) (For installation works of new 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Yamaguchi Pref.)	201912	202008	
72	Insulators/Aerial line hardware	Aerial line hardware for extra high voltage	Single-line tension equipment (8-ton system; For long rod insulators; For modification works of steel towers of 110-kV transmission lines)	12	String	Location specified by Chugoku Electric (Yamaguchi Pref.)	202003	202006	Corporate Finance and Procurement Div. (Materials and equipment procurement)
73	Insulators/Aerial line hardware	Aerial line hardware for extra high voltage	Double-line tension equipment (12-ton system; 24 sets for suspension insulators; 18 sets for long rod insulators), tension equipment for grounding conductors (4 sets for AC, 9 sets for regular OPAC locations, 3 sets for OPAC connection locations) (For reconstruction works of aged steel towers of 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Yamaguchi Pref.)	202003	202103	
74	Conduit lines	Manholes	Manhole (1 cct; 2 new towers, 1 expanded tower; For reinforcement works of some 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	201911	202006	
75	Conduit lines	Manholes	Manhole (1 cct, PFP piping 250-mm bore x 2 holes; 2 new towers; For cable connection works due to reinforcement of some 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	202006	202104	
76	Conduit lines	Manholes	Manhole (Resin concrete construction; 1 tower with four segments (2.0 x 4.0 x 2.0 with sleeves); 8 towers with 3 to 4 segments (2.0 to 2.5 x 3.0 to 4.8 x 2.0 to 3.5); 1 tower with 8 segments (2.0 x 7.5 x 1.8); For advance conduit line works)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	202001	202010	
77	Conduit lines	Manholes	Resin manhole (For installation works of new 110-kV transmission lines)	4	Unit	Location specified by Chugoku Electric (Yamaguchi Pref.)	201908	202103	
78	Conduit lines	Manholes	Manhole (8 towers; For reinforcement works of 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Yamaguchi Pref.)	201908	202109	
79	Conduit lines	Manholes	Manhole (1 cct, PFP 200; 3 new towers; For installation works of new 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Yamaguchi Pref.)	201911	202003	
80	Conduit lines	Manholes	Resin manhole (For installation works of new 110-kV transmission lines)	9	Unit	Location specified by Chugoku Electric (Yamaguchi Pref.)	202104	202112	
81	Conduit lines	Conduit lines	Conduit line (PFP 250-mm bore x 2, 0.4 km), resin manholes (W = 1.4, L = 9.0, H = 2.0; 1 tower; For installation works of new transmission lines)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201906	201910	
82	Conduit lines	Conduit lines	Conduit line (Line-laying carts: 446 carts; TFPF 150-mm bore straight pipe 1.5/2-m: 1,326 pipes; PFP 100-mm bore straight pipe 1.5/2-m: 221 pipes, EB pipe and other conduit line accessory materials; For advance conduit line works)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	202001	202005	
83	Vehicles	Generator vehicles	High-voltage generator vehicle (300 kVA; FY 2021 replacement; Kurayoshi Service Office)	1	Unit	Location specified by Chugoku Electric (Tottori Pref.)	202104	202203	
84	Vehicles	Generator vehicles	High-voltage generator vehicle (300 kVA; FY 2021 replacement; Takahashi Service Office)	1	Unit	Location specified by Chugoku Electric (Okayama Pref.)	202104	202203	

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85	Vehicles	Generator vehicles	High-voltage generator vehicle (500 kVA; FY 2021 replacement; Kurashiki Service Office)	1	Unit	Location specified by Chugoku Electric (Okayama Pref.)	202104	202203	Corporate Finance and Procurement Div. (Materials and equipment procurement)
86	Vehicles	Generator vehicles	High-voltage generator vehicle (300 kVA; FY 2020 replacement; Yamaguchi Service Office)	1	Unit	Location specified by Chugoku Electric (Yamaguchi Pref.)	202004	202103	
87	Vehicles	Generator vehicles	High-voltage generator vehicle (300 kVA; FY 2019 replacement; Shimonoseki Service Office)	1	Unit	Location specified by Chugoku Electric (Yamaguchi Pref.)	201904	202003	
88	Vehicles	Generator vehicles	Low-voltage generator vehicle (100 kVA; FY 2019 replacement; Shimonoseki Service Office)	1	Unit	Location specified by Chugoku Electric (Yamaguchi Pref.)	201904	202003	
89	Consumables and misc. items	Printing	Distribution-related computer input form (FY 2019; Format change; Power transmission and distribution company)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201906	201909	
90	Consumables and misc. items	Printing	General service-related form (Power transmission and distribution company)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref., etc.)	201906	201909	
91	Consumables and misc. items	Printing	General service-related form (Power transmission and distribution company)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref., etc.)	201912	202003	
92	Consumables and misc. items	Printing	General distribution-related form (FY 2019; Format change; Power transmission and distribution company)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201912	202003	
93	Consumables and misc. items	Printing	Company envelope (For power transmission and distribution company; Kaku 2 size (240 x 332 mm) (500 envelopes per box), Kaku 3 size (216 x 277 mm) (1,000 envelopes per box); 800 boxes each; Power transmission and distribution company due to legal separation)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	202001	202003	
94	Consumables and misc. items	Furnitures/Tools	Partition, bookcase (For library upgrade at each office due to legal separation; Power transmission and distribution company)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref., etc.)	201906	202003	
95	Consumables and misc. items	Furnitures/Tools	Furnitures for freely changing desk used (Desks, chairs, etc.; Power transmission and distribution company)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201910	202001	
96	Consumables and misc. items	Furnitures/Tools	Bookcase (Ujina Library; Due to legal separation; Power transmission and distribution company)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201910	202001	Corporate Finance and Procurement Div. (Materials and equipment procurement)
97	Consumables and misc. items	Furnitures/Tools	Wall-mounted storage shelves, etc. (Installed due to office changes; Including measures to prevent tipping over; Power transmission and distribution company)	27	Unit	Location specified by Chugoku Electric (Hiroshima Pref.)	202001	202003	
98	Consumables and misc. items	Furnitures/Tools	Noise barrier (7 m + 10 m + 7 m, H 5.9 m; For replacement works of No. 3 distribution transformer)	1	Set	Kurahashi Substation	202001	202102	

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Wires/cables (79 item(s))

No	Facilities Classification	Item Name	Article Name/Construction Name/Work Task Name	Qty.	Unit	Delivery/Construction/ Implementation Locations	Scheduled Procurement Date	Delivery Deadline	Contract Group (Scheduled)
1	Wires/Cables	22-kV power cable	22-kV CVT 60 sq (For 22-kV distribution lines, Okayama Service Office)	1,700	m	Location specified by Chugoku Electric (Okayama Pref.)	201904	201909	Corporate Finance and Procurement Div. (Materials and equipment procurement)
2	Wires/Cables	22-kV power cable	22-kV power cable terminal materials (Works to convert to #2 MTr tertiary 22-kV switchgear)	3	Set	Minami-Okayama Substation	202103	202211	
3	Wires/Cables	22-kV power cable	Including 22-kV CVT 150 sq (100 m), CVT 325 sq (50 m), terminal treatment material (insulator) (For replacement works of No. 2 MTr tertiary GS, etc.)	150	m	Bizen Substation	202104	202112	
4	Wires/Cables	22-kV power cable	22-kV power cable terminal materials (Works to convert to #3 MTr tertiary 22-kV switchgear)	3	Set	Minami-Okayama Substation	202203	202311	
5	Wires/Cables	22-kV power cable	22-kV CVT 60 sq (For 22-kV distribution lines)	2,000	m	Mitsu Substation	201904	201907	
6	Wires/Cables	22-kV power cable	22-kV Cu-CV 600 sq (With impermeable layer; For maintenance works of 22-kV enclosed switchboard)	390	m	Innoshima Substation	201904	202005	
7	Wires/Cables	22-kV power cable	22-kV CVT 60 sq (For 22-kV distribution lines, Hiroshima Service Office)	1,652	m	Location specified by Chugoku Electric (Hiroshima Pref.)	202002	202006	
8	Wires/Cables	22-kV power cable	22-kV CVT 100 sq (For 22-kV distribution lines)	2,550	m	Takachiho Substation	201904	201909	
9	Wires/Cables	22-kV power cable	22-kV CVT 150 sq (For works related to conversion to 22-kV switchgear)	1,240	m	Hikoshima Substation	201909	201912	
10	Wires/Cables	6-kV power cable	6-kV power cable 1,000 sq (For installation works of new No. 2 distribution transformer)	1	Set	Mikawa Substation	201907	202007	
11	Wires/Cables	6-kV power cable	6-kV power cable 1,200 sq (With impermeable layer; For replacement works of #1B 6-kV SWG)	190	m	Kurihara Substation	202003	FY 2020 and after	
12	Wires/Cables	6-kV power cable	6-kV power cable 1,200 sq (With impermeable layer; For replacement works of #2B 6-kV SWG)	140	m	Kurihara Substation	202003	FY 2020 and after	
13	Wires/Cables	Power cable/Submarine cable	22 sq ocean-bed cable (cross-linked polyethylene insulated with single steel wire vinyl sheath), terminals, covers (6.6 kV; For ocean-bed cable; Okayama Service Office)	890	m	Location specified by Chugoku Electric (Okayama Pref.)	201911	202007	
14	Wires/Cables	Power cable/Submarine cable	WCEWA 22 sq (3P x 2; 6 kV; For ocean-bed cable; Yamaguchi Service Office)	11,008	m	Location specified by Chugoku Electric (Yamaguchi Pref.)	201904	202004	
15	Wires/Cables	Power cable/Submarine cable	WCEWA 22 sq (For ocean-bed cable; Shunan Service Office)	1,200	m	Location specified by Chugoku Electric (Yamaguchi Pref.)	201906	202008	
16	Wires/Cables	Power cable (Included with works)	66-kV CVT 200 sq (Outdoor; For expansion works of No. 2 interconnection transformers, etc.)	50	m	Tottori Substation	202010	202106	
17	Wires/Cables	Power cable (Included with works)	110-kV CV 100 sq (For works such as distribution transformer No. 1 replacement)	210	m	Akatsuka Power Station	201904	201906	
18	Wires/Cables	Power cable (Included with works)	Termination junction box for 110-kV CV 100 sq (Including installation; For works such as distribution transformer No. 1 replacement)	1	Set	Akatsuka Power Station	201904	201906	
19	Wires/Cables	Power cable (Included with works)	110-kV CV200 sq (Outdoor; terminal materials; Including installation; For replacement works of 110-kV transmission lines 2LCB)	120	m	Takamatsu Substation	202003	202103	
20	Wires/Cables	Power cable (Included with works)	66-kV ocean-bed cable WCLWA (With nylon ant-protection layer; 3C x 500 sq + light composite (SN12C); For line replacement works of aged ocean-bed OF cable of 66-kV transmission lines)	1,803	m	Location specified by Chugoku Electric (Okayama Pref.)	201907	202005	
21	Wires/Cables	Power cable (Included with works)	2 sets of outdoor termination boxes (B-1054), 2 sets of steel wire anchor hardware, 2 sets of optical junction boxes (For line replacement works of aged ocean-bed OF cable of 66-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	201907	202005	
22	Wires/Cables	Power cable (Included with works)	66-kV WCLYWA (3 x 500, outdoor termination boxes (B-1054), duct-lay type, trough-lay type; For line replacement works of aged ocean-bed OF cable of 66-kV transmission lines)	2	Km	Location specified by Chugoku Electric (Okayama Pref.)	201907	202011	

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Wires/cables (79 item(s))

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23	Wires/Cables	Power cable (Included with works)	Disposal works due to replacement of aged ocean-bed OF cable of 66-kV transmission lines (2 sections of WOFW A-3 x 200, outdoor termination boxes (B-1001), 6 pressure oil tanks, 2 lightning arresters, oil-retaining wall)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	201907	202012	Corporate Finance and Procurement Div. (Materials and equipment procurement)
24	Wires/Cables	Power cable (Included with works)	110-kV CVSS-Y 600 mm ² (1 cct; 4 intermediate junction boxes, 1 termination junction box, cable connections; For reinforcement works of some 110-kV transmission lines)	1	Km	Location specified by Chugoku Electric (Okayama Pref.)	201912	202104	Corporate Finance and Procurement Div. (Materials and equipment procurement)
25	Wires/Cables	Power cable (Included with works)	66-kV CV cable (1 cct; For line replacement works of 2L cable of 66-kV transmission lines)	1,100	m	Location specified by Chugoku Electric (Okayama Pref.)	202004	202103	
26	Wires/Cables	Power cable (Included with works)	66-kV CV cable connections (For line replacement works of 2L cable of 66-kV transmission lines)	1	Set	Mizushima Power Station	202004	202103	
27	Wires/Cables	Power cable (Included with works)	66-kV CV cable accessories (1 cct; For line replacement works of 2L cable of 66-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	202004	202103	
28	Wires/Cables	Power cable (Included with works)	66-kV CVTSS 80 sq (1 cct; outdoor termination boxes, intermediate junction boxes, etc.; For line replacement works of aged OF cable of 66-kV transmission lines)	300	m	Location specified by Chugoku Electric (Okayama Pref.)	202010	202111	
29	Wires/Cables	Power cable (Included with works)	66-kV CVTSS 100 sq (1 cct; On-tower outdoor termination boxes for 1 tower, 2 intermediate junction boxes (including existing), cable connections; For line replacement works of aged CV cable of 66-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	202012	202106	
30	Wires/Cables	Power cable (Included with works)	110-kV power cable 200 sq (For installation works of new No. 2 distribution)	1	Set	Mikawa Substation	201907	202012	
31	Wires/Cables	Power cable (Included with works)	110-kV OF 600 (1 cct, connection materials, intermediate junction boxes (OF) with 3-phase/set x 2 MH; For works to change the route of 110-kV transmission lines)	200	m	Location specified by Chugoku Electric (Hiroshima Pref.)	201908	202008	
32	Wires/Cables	Power cable (Included with works)	110-kV OF 600 connection (For works to change the route of 110-kV transmission lines)	1	Set		201908	202011	
33	Wires/Cables	Power cable (Included with works)	Disposal works due to changes in the route of 110-kV transmission lines	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201908	202011	
34	Wires/Cables	Power cable (Included with works)	110-kV power cable (For line-drawing works of 110-kV transmission lines)	1	Set	Kaita Substation	201909	202007	
35	Wires/Cables	Power cable (Included with works)	66-kV CVSS 800, CVSS 400, CVTSS 400 (For line replacement works of aged 2L CV cable of 66-kV transmission lines)	3	Km	Location specified by Chugoku Electric (Hiroshima Pref.)	201909	202004	
36	Wires/Cables	Power cable (Included with works)	Y-branch junction box (1 set; For installation works of internal 1LMH Y-branch intermediate junction boxes of 22-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201911	202008	
37	Wires/Cables	Power cable (Included with works)	Disposal works due to installation of internal 1LMH Y-branch intermediate junction box of 22-kV transmission lines (CVTSS 1 m, 1 set of intermediate junction box)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201911	202010	
38	Wires/Cables	Power cable (Included with works)	Cable connection due to installation of internal 1LMH Y-branch intermediate junction box of 22-kV transmission lines	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201911	202010	
39	Wires/Cables	Power cable (Included with works)	110-kV CVSS-F 1000 (2 cct, connection materials, gas-immersed termination junction box (slip-on) 6-phase/set, transition junction box DJ (OF x CV) 6-phase/set; For line-drawing works of 110-kV transmission lines)	30	m	Hakushima Substation	201912	202102	
40	Wires/Cables	Power cable (Included with works)	110-kV CVSS-F 1000 (1 cct, connection materials, gas-immersed termination junction boxes (slip-on) 3-phase/set, transition junction box DJ (OF x CV) 3-phase/set; For line-replacement works of 110-kV transmission line cables)	200	m	Hakushima Substation	201912	202103	
41	Wires/Cables	Power cable (Included with works)	110-kV CVSS-F 1000 (1 cct, connection materials, gas-immersed termination junction boxes (slip-on) 3-phase/set, transition junction box DJ (OF x CV) 3-phase/set; For line-replacement works of 110-kV transmission line cables)	200	m	Hakushima Substation	201912	202109	
42	Wires/Cables	Power cable (Included with works)	66-kV power cable 100 sq (6 termination junction boxes; For replacement works of No. 3 distribution transformer)	20	m	Kurahashi Substation	202001	202102	

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Wires/cables (79 item(s))

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43	Wires/Cables	Power cable (Included with works)	110-kV CVSS 1200 (2 cct, cable connection materials, accessories; For installation works of new 110-kV transmission lines)	880	m	Location specified by Chugoku Electric (Hiroshima Pref.)	202005	202206	Corporate Finance and Procurement Div. (Materials and equipment procurement)
44	Wires/Cables	Power cable (Included with works)	22-kV CVSS 1000 sq (Termination box (on-tower) EB-A: 6 sets; Termination box (in SWG) EB-A: 6 sets; For line replacement works of 22-kV transmission line cable)	500	m	Kaita Substation	202008	202202	
45	Wires/Cables	Power cable (Included with works)	110-kV CVTSS 200 sq (1 set of gas-immersed termination junction box, 1 set of slip-on type gas-immersed termination junction boxes, 8 sets of intermediate junction boxes (RBJ), 1 set of intermediate junction boxes (YJ); For installation works of new 110-kV transmission lines 1L)	2,900	m	Location specified by Chugoku Electric (Hiroshima Pref.)	202011	202208	
46	Wires/Cables	Power cable (Included with works)	110-kV OF1 x 600 (1 cct; gas-immersed termination junction boxes 3-phase/set, intermediate junction boxes 6-phase/set; For line-replacement works of 110-kV transmission line cables)	430	m	Ooshiha Substation	202012	202202	
47	Wires/Cables	Power cable (Included with works)	110-kV OF 1 x 600 connections (For line-replacement works of 110-kV transmission line cables)	1	Set	Ooshiha Substation	202012	202209	
48	Wires/Cables	Power cable (Included with works)	Disposal works due to replacement of 110-kV transmission line cables (OF 1 x 600, termination, EB-G dismantling 3-phase/set, PCB-containing EB-G (red, white, blue))	1	Set	Ooshiha Substation	202012	202209	
49	Wires/Cables	Power cable (Included with works)	110-kV OF1 x 600 (1 cct; outdoor termination junction boxes 3-phase/set, intermediate junction boxes 9-phase/set; For line-replacement works of 110-kV transmission line cables)	660	m	Ooshiha Substation	202012	202211	Corporate Finance and Procurement Div. (Materials and equipment procurement)
50	Wires/Cables	Power cable (Included with works)	110-kV OF 1 x 600 connections (For line-replacement works of 110-kV transmission line cables)	1	Set	Ooshiha Substation	202012	202303	
51	Wires/Cables	Power cable (Included with works)	110-kV CVSS 800 sq (2 sets of outdoor termination junction boxes, 8 sets of intermediate junction boxes (RBJ), 2 sets of intermediate junction boxes (YJ); For installation works of new 110-kV transmission lines)	8,400	m	Location specified by Chugoku Electric (Hiroshima Pref.)	202108	202303	
52	Wires/Cables	Power cable (Included with works)	110-kV CVSS 400 x 1 (2 sets of termination junction boxes, other materials; For line replacement works of 1L cable of 110-kV transmission lines)	2,400	m	Nishi-Hiroshima Substation Inokuchi Substation	202112	202312	
53	Wires/Cables	Power cable: Other (MM, special type cable, etc.)	66-kV power cable (70 m x 3, T-type terminations x 3, gas-immersed terminations x 3; For replacement works of No. 3 interconnection transformers)	1	Set	Yonago Substation	201906	202102	
54	Wires/Cables	Power cable: Other (MM, special type cable, etc.)	66-kV CVT 150 sq (1 cct; 0.09 km; Including double-ended EBA, accessories; For line replacement works of aged CV cable of 66-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	202104	202112	
55	Wires/Cables	Power cable: Other (MM, special type cable, etc.)	66-kV CV 1,000 sq (2 cct; 0.16 km; Including 6 sets of on-tower EBA, 6 sets of EBG, accessories; For line replacement works of aged CV cable of 66-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	202203	202210	
56	Wires/Cables	Invar wire	Wire (XTACIR 160 mm ² , 9,200 m x 3 sections; For reinforcement works of some 66-kV transmission lines 2L)	27,600	m	Location specified by Chugoku Electric (Tottori Pref.)	202001	202008	
57	Wires/Cables	Invar wire	Wire (XTACIR 90 mm ² ; For reinforcement works of some 66-kV transmission lines)	6,300	m	Location specified by Chugoku Electric (Okayama Pref.)	202003	202008	
58	Wires/Cables	Invar wire	Wire (XTACIR 110 mm ² ; For modification works of single-line THDCC including 22-kV transmission lines, etc.)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201904	201910	
59	Wires/Cables	Naked aluminum wire (410 sq or more)	TAL 2500 sq, 1260 sq, 660 sq (For installation works of new 220/110-kV Tr)	1	Set	Shin-Yamaguchi Substation	201906	202002	
60	Wires/Cables	Naked aluminum wire (410 sq or less)	SL-TACSR/AC 120 sq (2,050 m x 3 drums; For line replacement works of 66-kV transmission lines)	6,150	m	Location specified by Chugoku Electric (Shimane Pref.)	201904	201910	
61	Wires/Cables	Naked aluminum wire (410 sq or less)	TACSR/AC 160 sq (For reconstruction works of aged steel towers of 110-kV transmission lines)	36,000	m	Location specified by Chugoku Electric (Shimane Pref.)	202002	202008	
62	Wires/Cables	Naked aluminum wire (410 sq or less)	SL-TACSR/AC 120 sq (1,950 m x 3 drums; For modification works of steel towers due to line replacement works of 66-kV transmission lines)	5,850	m	Location specified by Chugoku Electric (Shimane Pref.)	202003	202010	
63	Wires/Cables	Naked aluminum wire (410 sq or less)	TACSR/AC 330 sq (6,000 m), ACSR/AC 160 sq (9,000 m), AC 70 sq (4,000 m) (For installation works of new 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	201911	202005	

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Wires/cables (79 item(s))

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64	Wires/Cables	Naked aluminum wire (410 sq or less)	ACSR/AC 160 sq (15,800 m), AC 70 sq (5,300 m) (For installation works of new 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	202001	202008	Corporate Finance and Procurement Div. (Materials and equipment procurement)
65	Wires/Cables	Naked aluminum wire (410 sq or less)	TACSR/AC 410 sq (For reconstruction works of aged steel towers of 220-kV transmission lines)	29,000	m	Location specified by Chugoku Electric (Hiroshima Pref.)	201904	201910	
66	Wires/Cables	Naked aluminum wire (410 sq or less)	ACSR/AC 160 sq (3-phase; For installation works of new transmission lines)	18,000	m	Location specified by Chugoku Electric (Hiroshima Pref.)	201906	202002	
67	Wires/Cables	Naked aluminum wire (410 sq or less)	TACSR/AC 410 sq (For reconstruction works of aged steel towers of 220-kV transmission lines)	48,700	m	Location specified by Chugoku Electric (Hiroshima Pref.)	201911	202006	
68	Wires/Cables	Naked aluminum wire (410 sq or less)	ACSR/AC 160 sq (For installation works of new transmission lines)	13,000	m	Location specified by Chugoku Electric (Hiroshima Pref.)	201912	202006	
69	Wires/Cables	Naked aluminum wire (410 sq or less)	TACSR/AC240 sq (For reconstruction works of aged steel towers of 110-kV transmission lines)	17,780	m	Location specified by Chugoku Electric (Hiroshima Pref.)	201912	202007	Corporate Finance and Procurement Div. (Materials and equipment procurement)
70	Wires/Cables	Naked aluminum wire (410 sq or less)	TACSR/AC 410 sq (For installation works of new 110-kV transmission lines (Construction Zone 2))	68,000	m	Location specified by Chugoku Electric (Yamaguchi Pref.)	201912	202009	
71	Wires/Cables	Composite overhead ground wire with optical	OPAC 70 sq (3,100 m x 1 drum, 2,600 m x 1 drum; For line replacement works of 110-kV transmission line OPGW)	5,700	m	Location specified by Chugoku Electric (Tottori Pref.)	202002	202006	
72	Wires/Cables	Other switchboards	OPAC 70 sq (For reconstruction works of aged steel towers of 110-kV transmission lines)	6,000	m	Location specified by Chugoku Electric (Shimane Pref.)	202002	202008	
73	Wires/Cables	Composite overhead ground wire with optical	OPAC 70 sq (For reconstruction works of aged steel towers of 110-kV transmission lines)	2,964	m	Location specified by Chugoku Electric (Hiroshima Pref.)	201912	202007	
74	Wires/Cables	Control cables	Control cable (For installation works of new 220/110-kV Tr)	1	Set	Shin-Yamaguchi Substation	201912	202005	
75	Wires/Cables	Conductor fittings	Vibration eliminator (Stock-bridge dampers, bate damper clips, etc.; For damper replacement works of 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	201908	202003	
76	Wires/Cables	Conductor fittings	516 line spacers, 240 jumper spacers (For reconstruction works of aged steel towers of 220-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201911	202006	
77	Wires/Cables	Conductor fittings	Cable accessories (For line replacement works of aged 2L CV cable of 66-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	201912	202002	
78	Wires/Cables	Conductor fittings	Cable accessories (For line replacement works of aged 2L CV cable of 66-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	202008	202010	
79	Wires/Cables	Conductor fittings	Clamps, spacers, etc. (For installation works of new 220/110-kV Tr)	1	Set	Shin-Yamaguchi Substation	201906	202002	

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Transmission equipment (188 item(s))

No	Facilities Classification	Item Name	Article Name/Construction Name/Work Task Name	Qty.	Unit	Delivery/Construction/ Implementation Locations	Scheduled Procurement Date	Delivery Deadline	Contract Group (Scheduled)
1	Transmission equipment	Unit-enclosed switchboard	7.2-kV switchgear (Rated normal current: 3,000A; Including full-scale inspection; For relocation of #1 transmission lines, etc.)	1	Box	Tsuno Substation	201905	202006	Corporate Finance and Procurement Div. (Materials and equipment procurement)
2	Transmission equipment	Unit-enclosed switchboard	7.2-kV switchgear (For 6-kV 1BSWG replacement works)	6	Box	Iya Substation	201904	202006	
3	Transmission equipment	Unit-enclosed switchboard	24-kV switchgear (Distribution transformer tertiary box (CB not installed), bus tie box (CB installed); For installation works of No. 3 DTr tertiary 22-kV SWG)	2	Box	Tsuda Substation	202006	202108	
4	Transmission equipment	Unit-enclosed switchboard	7.2-kV switchgear (For replacement works of No. 1B switchgear)	6	Box	Mino Substation	201906	202110	
5	Transmission equipment	Unit-enclosed switchboard	7.2-kV switchgear (For replacement works of No. 2B switchgear)	5	Box	Mino Substation	201906	202110	
6	Transmission equipment	Unit-enclosed switchboard	7.2-kV switchgear (For maintenance works of HTr and cooling power source of main transformer)	1	Box	Kasaoka Substation	201908	202009	
7	Transmission equipment	Unit-enclosed switchboard	24-kV switchgear (Tertiary box, bus tie box: For expansion works of 110-kV interconnection transformers)	2	Box	Ayabe Substation	201908	202103	
8	Transmission equipment	Unit-enclosed switchboard	24-kV switchgear (For replacement works of 22-kV #1, 2B switchgear)	5	Box	Minami-Okayama Substation	202001	202110	
9	Transmission equipment	Unit-enclosed switchboard	7.2-kV switchgear (station box x 1, DS/power cable junction box x 1; For No. 1 and 3 Tr replacement works)	2	Box	Kotoura Substation	202002	202108	
10	Transmission equipment	Unit-enclosed switchboard	24-kV switchgear (Tertiary box, station box; For replacement works)	2	Box	Takahashi Substation	202006	202110	
11	Transmission equipment	Unit-enclosed switchboard	24-kV switchgear (Expansion; For No. 1 Tr replacement works)	2	Box	Fukuda Substation	202101	202204	
12	Transmission equipment	Unit-enclosed switchboard	24-kV switchgear (For replacement works of 22-kV #1B switchgear)	2	Box	Fukuda Substation	202103	202207	
13	Transmission equipment	Unit-enclosed switchboard	24-kV switchgear (For works to convert to #2 MTr tertiary 22-kV switchgear)	4	Box	Minami-Okayama Substation	202103	202211	
14	Wires/Cables	Power cable/Submarine cable	24-kV switchgear (Transformer tertiary: 2; Transmission line boxes: 2; Bus tie box: 1; For maintenance works of 22-kV enclosed switchboard)	5	Box	Innoshima Substation	201904	202005	
15	Transmission equipment	Unit-enclosed switchboard	7.2-kV switchgear (Rated normal current: 600 A; Rated short-time current: 12.5 kA; For line-drawing works of 6-kV distribution lines)	1	Box	Location specified by Chugoku Electric (Yamaguchi Pref.)	201906	202010	
16	Transmission equipment	Unit-enclosed switchboard	7.2-kV switchgear (Rated normal current: 2,000 A; Rated short-time current: 20 kA; Distribution transformer secondary: 1; Station GPT: 1, Bus tie/Distribution line: 1; Distribution line: 1; For #1B 6-kV SWG replacement works)	4	Box	Kurihara Substation	201907	FY 2019 and after	
17	Transmission equipment	Unit-enclosed switchboard	7.2-kV switchgear (Rated normal current: 2,000 A; Rated short-time current: 20 kA; Distribution transformer secondary: 1; Station GPT: 1, Bus tie/Spare: 1; Distribution line: 1; For #2B 6-kV SWG replacement works)	4	Box	Kurihara Substation	201907	FY 2019 and after	
18	Transmission equipment	Unit-enclosed switchboard	24-kV switchgear (NGR; For installation works of 22-kV NGR)	1	Box	Kabeminami Substation	201907	202010	
19	Transmission equipment	Unit-enclosed switchboard	24-kV switchgear (Distribution transformer tertiary; For line-drawing works of 22-kV distribution lines)	2	Box	Kabe Substation	201907	202010	
20	Transmission equipment	Unit-enclosed switchboard	7.2-kV switchgear (Distribution lines 2F; For replacement works of 6-kV distribution lines)	1	Box	Kouda Substation	201907	202012	
21	Transmission equipment	Unit-enclosed switchboard	7.2-kV switchgear (Rated normal current: 3,000 A; Rated short-time current: 20 kA; Distribution transformer secondary: 1; Station/GPT:1, Bus tie/SC: 1; Distribution lines: 4; NGR: 1; For #1B 6-kV switchgear replacement works)	8	Box	Miyuki Substation	201911	202104	
22	Transmission equipment	Unit-enclosed switchboard	24-kV switchgear (22-kV; For replacement works of No. 1/3B 22-kV switchgear)	6	Box	Mitsu Substation	201912	202106	

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Transmission equipment (188 item(s))

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23	Transmission equipment	Unit-enclosed switchboard	24-kV switchgear (For 22-kV No. 1/2B SWG replacement works)	5	Box	Youkura Substation	201912	202108	Corporate Finance and Procurement Div. (Materials and equipment procurement)
24	Transmission equipment	Unit-enclosed switchboard	24-kV switchgear (For 22-kV No. 1/6-kV No. 2B SWG replacement works)	6	Box	Takaya Substation	201912	202108	
25	Transmission equipment	Unit-enclosed switchboard	6-kV mini-cladding (For expansion works of No. 2 distribution transformer)	7	Box	Kannon Substation	202002	202112	Corporate Finance and Procurement Div. (Materials and equipment procurement)
26	Transmission equipment	Unit-enclosed switchboard	24-kV switchgear (Rated normal current: 600 A; Rated short-time current: 25 kA; For 22-kV switchgear replacement works)	5	Box	Ootagawa Power Station	202007	202110	
27	Transmission equipment	Unit-enclosed switchboard	7.2-kV switchgear (Distribution transformer secondary box (Rated normal current: 3,000 A); Station GPT box (Rated short-time current: 30 kVA); Distribution line boxes (Rated normal current: 600 A) (all parts installed) x 3; Bus tie DS box (Rated normal current: 2,000 A) (CB not installed); For No. 1B switchgear replacement works)	6	Box	Ozuki Substation	201905	202105	
28	Transmission equipment	Unit-enclosed switchboard	24-kV switchgear (VCT for testing installed; Electric energy meter storage; For installation works of electric energy meters with test function)	1	Box	Ube Solar Power Plant	201906	202012	
29	Transmission equipment	Unit-enclosed switchboard	7.2-kV switchgear (For No. 1 BSWG replacement works)	5	Box	Suetake Substation	201908	202104	
30	Transmission equipment	Unit-enclosed switchboard	24-kV switchgear (For No. 1 BSWG replacement works)	2	Box	Kuka Substation	202010	202204	
31	Transmission equipment	Neutral earthing resistors	110-kV NGR (110/√3k, 150 A; For 110-kV NGR expansion works)	1	Unit	Nishi-Shimane Substation	201904	202105	
32	Transmission equipment	Neutral earthing resistors	110-kV NGL (For 110-kV NGL, etc. replacement works)	1	Unit		201904	202011	
33	Transmission equipment	Neutral earthing resistors	110-kV NGL (100 A; For 110-kV NGL installation works)	1	Unit	Shin-Tokuyama Substation	201908	202104	
34	Transmission equipment	Power capacitors/reactors	SC (For replacement)	1	Set	Yabase Substation	201906	202008	
35	Transmission equipment	Power capacitors/reactors	Shunt reactor ShR protective relay panel (171 CB, 182 GS, etc.; For replacement works)	2	Panel	Shin-Okayama Substation	201905	202008	
36	Transmission equipment	Power capacitors/reactors	Shunt reactor ShR protective relay panel (Unit 1) (110-kV; For reconstruction works of main station building)	1	Set	Nishi-Hiroshshima Substation	201908	202202	
37	Transmission equipment	Power capacitors/reactors	Shunt reactor ShR protective relay panel (Unit 2) (110-kV; For reconstruction works of main station building)	1	Set	Nishi-Hiroshshima Substation	201908	202202	
38	Transmission equipment	Power capacitors/reactors	Shunt reactor ShR protective relay panel (Unit 3) (110-kV; For reconstruction works of main station building)	1	Set	Nishi-Hiroshshima Substation	201908	202202	
39	Transmission equipment	Power capacitors/reactors	Shunt reactor ShR (110 kV, 20 MVA; For No. 7 ShR replacement works)	1	Unit	Minami-Hiroshshima Substation	201912	202009	
40	Transmission equipment	Surge arrester for AC power systems	Lightning arrester (140 kV: 3 units; 112 kV: 1 unit; 84 kV: 3 units; 70 kV: 1 unit; For expansion works of 110-kV interconnection transformers)	8	Unit	Ayabe Substation	201908	202103	
41	Transmission equipment	Surge arrester for AC power systems	Lightning arresters (210 kV, 10 kA, 0.03 mg/cm ² ; For replacement works of 220-kV LA A and B)	2	Set	Higashi-Yamaguchi Substation	201906	202005	
42	Transmission equipment	Lightning arrester insulator sets	110-kV simple lightning arrester (72 sets; 24 balance weights; For lightning-resistance countermeasures works of 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Shimane Pref.)	201910	202003	
43	Transmission equipment	Lightning arrester insulator sets	110-kV simple lightning arrester (9 sets of counterweights; For lightning-resistance countermeasures works of 110-kV transmission lines)	81	Set	Location specified by Chugoku Electric (Okayama Pref.)	201909	202001	
44	Transmission equipment	Lightning arrester insulator sets	110-kV simple lightning arrester (6 sets for suspension (with weight), 45 sets for tension; For installation works of new 110-kV transmission lines)	51	Set	Location specified by Chugoku Electric (Okayama Pref.)	201910	202008	

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Transmission equipment (188 item(s))

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45	Transmission equipment	Other power equipment	PD (For 110-kV PD A replacement works)	1	Unit	Yonago Substation	201904	202005	Corporate Finance and Procurement Div. (Materials and equipment procurement)
46	Transmission equipment	Other power equipment	Intrusion monitoring equipment (For replacement works)	1	Set	Nishi-Shimane Substation	201904	201909	
47	Transmission equipment	Other power equipment	Disposal works for replacement of intrusion monitoring equipment	1	Set	Nishi-Shimane Substation	201904	201909	
48	Transmission equipment	Other power equipment	110-kV bus PD (200 VA, 0.06 mg/cm ² : 3 units for bus A, 3 units for bus B; For replacement works of 110-kV bus PD A and B)	6	Unit	Chiimiya Substation	202005	202106	
49	Transmission equipment	Other power equipment	9 air conditioners, 6 step-down transformers, 6 outdoor units (Communications equipment room, CVCF room; For air conditioning replacement works)	1	Set	Okayama Control Center	201904	201907	
50	Transmission equipment	Other power equipment	OM-3B model aircraft warning lights, control panels, etc. (500-kV transmission lines for 2 towers, 220-kV transmission lines for 1 tower, 500-kV transmission lines for 1 tower, etc.; For works to convert single-line aircraft warning lights of 500-kV transmission lines to LED)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	201905	201910	Corporate Finance and Procurement Div. (Materials and equipment procurement)
51	Transmission equipment	Other power equipment	Failure point determination equipment (1 cct; For installation works of failure point determination equipment of 33-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	201906	201909	
52	Transmission equipment	Other power equipment	Fault section determination equipment (2 cct; substations, 2 locations; For installation works of fault section determination equipment of OF cable of 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	201906	201910	
53	Transmission equipment	Other power equipment	Fault section determination equipment (2 cct; substations, 2 locations; For installation works of fault section determination equipment of OF cable of 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	201906	201910	
54	Transmission equipment	Other power equipment	Low/Medium-brightness aircraft warning lights for 1 tower, low-brightness aircraft warning lights for 2 towers (1 set of installation materials such as LED aircraft warning lights control panel; For works to convert aircraft warning lights of 110-kV transmission lines to LED)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	201907	201911	
55	Transmission equipment	Other power equipment	Fault section determination equipment (2 cct; 2 towers; For installation works of fault section determination equipment of CV cable of 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Okayama Pref.)	201909	202002	
56	Transmission equipment	Other power equipment	Condenser-type potential transformer (200 VA, 0.01 mg/cm ² ; For replacement works of 220-kV bus PD A and B)	2	Set	Shin-Okayama Substation	202102	202203	
57	Transmission equipment	Other power equipment	Compressor (For No. 1 compressor replacement works)	1	Set	Funairi Substation	201905	202008	
58	Transmission equipment	Other power equipment	Low-brightness aircraft warning lights OM-3C (10 lights), controller, etc. (For works to convert aircraft warning lights of 500-kV transmission lines, etc. to LED)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref.)	202004	202010	
59	Transmission equipment	Other power equipment	26 zero-phase current transformers, 5 detectors, 5 power transmitters, terminal boxes (5P, 10P), 3 receivers, accessory materials (For installation works of fault section determination equipment of 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Yamaguchi Pref.)	202006	202010	
60	Transmission equipment	Other power equipment	Failure section determination equipment (For installation works of failure section determination equipment of OF cable of 110-kV transmission lines)	1	Set	Location specified by Chugoku Electric (Yamaguchi Pref.)	202008	202012	
61	Transmission equipment	Other power equipment	Fault section determination equipment (With OCR; For installation works of dual-line fault section determination equipment of 110-kV transmission lines, etc.)	1	Set	Location specified by Chugoku Electric (Yamaguchi Pref.)	202008	202102	
62	Transmission equipment	Other power equipment	Aircraft warning lights (For dual-lines of 500-kV transmission lines, etc.)	4	Unit	Location specified by Chugoku Electric (Hiroshima Pref.)	202009	202108	
63	Transmission equipment	Other switchboards	Incoming panel (For replacement works of incoming panel and incoming protective panel)	1	Panel	Uratomi Substation	201904	202005	
64	Transmission equipment	Other switchboards	Monitoring control panel (For replacement)	1	Set	Sakaiminato Substation	201904	202006	

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65	Transmission equipment	Other switchboards	Monitoring control panel (For replacement)	1	Set	Yonago Substation	201906	202008	Corporate Finance and Procurement Div. (Materials and equipment procurement)
66	Transmission equipment	Other switchboards	Incoming panel (For replacement works of incoming panel and incoming relays panel)	1	Unit	Sugawara Substation	201909	202008	
67	Transmission equipment	Other switchboards	Interlock panel, control power panel, station failure indicator panel, automatic synchronization/auxiliary panel (Including installation and adjustment; For monitoring/control equipment replacement works)	4	Panel	Minato Switching Station	201905	202112	
68	Transmission equipment	Other switchboards	Outdoor distribution box, incoming panelboards, incoming Ry panel, NGL protective panel (For replacement works of 110-kV transmission lines 1 and 2 L GIS, etc.)	1	Set	Funakura Substation	201907	202008	
69	Transmission equipment	Other switchboards	Outdoor distribution box (For replacement works)	7	Box	Tamano Substation	202005	202103	
70	Transmission equipment	Other switchboards	Incoming panel (For replacement works)	1	Panel	Oozu Substation	201904	202004	
71	Transmission equipment	Other switchboards	Station protective panel (For replacement works of transmission lines (station system protection))	1	Set	Funairi Substation	201905	202010	
72	Transmission equipment	Other switchboards	PD automatic switchboard (1) (For main station building reconstruction works)	1	Set	Nishi-Hiroshima Substation	201908	202202	
73	Transmission equipment	Other switchboards	PD automatic switchboard (2) (For main station building reconstruction works)	1	Set	Nishi-Hiroshima Substation	201908	202202	
74	Transmission equipment	Other switchboards	PD automatic switchboard (3) (110-kV; For main station building reconstruction works)	1	Set	Nishi-Hiroshima Substation	201908	202202	
75	Transmission equipment	Other switchboards	PD automatic switching (3) auxiliary panel (110-kV; For main station building reconstruction works)	1	Set	Nishi-Hiroshima Substation	201908	202202	Corporate Finance and Procurement Div. (Materials and equipment procurement)
76	Transmission equipment	Other switchboards	Station automatic recovery equipment panel (For main station building reconstruction works)	1	Set	Nishi-Hiroshima Substation	201908	202202	
77	Transmission equipment	Other switchboards	Incoming panel (For replacement)	1	Panel	Kurihara Substation	201910	FY 2019 and after	
78	Transmission equipment	Other switchboards	Incoming panel (700 width; For replacement works)	1	Panel	Higashi-Kaita Substation	202003	202104	
79	Transmission equipment	Other switchboards	Distribution lines cut-off panel (For bank reverse power flow countermeasures)	2	Panel	Hikari Substation	201904	202005	
80	Transmission equipment	Other switchboards	Outdoor distribution box (For replacement works of outdoor distribution box F, etc.)	5	Box	Iwakuni Substation	201904	202008	
81	Transmission equipment	Other switchboards	PD automatic switchboards (220 kV: 2 units; 110 kV: 2 units; 66 kV: 1 unit; For replacement works of monitoring/control equipment, etc.)	1	Set	Yamaguchi Substation	201907	202009	
82	Transmission equipment	Other switchboards	DC power source panel: 1 unit; DC distribution panel: 2 units; Control power panel: 4 units; Auxiliary current transformer panel: 1 unit (For replacement works of monitoring control equipment etc.)	1	Set	Yamaguchi Substation	201907	202009	
83	Transmission equipment	Other switchboards	Interlock panel (For replacement works of monitoring/control equipment, etc.)	7	Panel	Yamaguchi Substation	201907	202009	
84	Transmission equipment	Other switchboards	66-kV ground fault protective panel (OVG: 2; 51N: 2; For replacement works of monitoring/control equipment, etc.)	1	Panel	Yamaguchi Substation	201908	202009	
85	Transmission equipment	Other switchboards	NGL protective panel (110-kV; For NGL installation works)	1	Panel	Shin-Tokuyama Substation	201908	202104	
86	Transmission equipment	Other switchboards	Incoming panel (Incoming Ry 2 cct installed; For bank reverse power flow countermeasures)	1	Panel	Mitaziri Substation	201910	202008	
87	Transmission equipment	Other switchboards	Outdoor distribution box (For installation works of new 220/110-kV Tr)	5	Box	Shin-Yamaguchi Substation	201912	202006	

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88	Transmission equipment	Other switchboards	Distribution lines cut-off panel (For bank reverse power flow countermeasures)	2	Panel	Suetake Substation	202001	202012	Corporate Finance and Procurement Div. (Materials and equipment procurement)
89	Transmission equipment	Other switchboards	110-kV NGR protective panel (OVG: 2; UV: 2; 51G: 1; For replacement works of monitoring/control equipment, etc.)	1	Panel	Yamaguchi Substation	202001	202109	
90	Transmission equipment	Other switchboards	Distribution lines cut-off panel (For bank reverse power flow countermeasures)	2	Panel	Nanyo Substation	202003	202104	
91	Switchgear	Gas circuit breaker	240-kV gas circuit breaker (Rated normal current: 4,000 A, rated short-time current: 50 kA; For disposal works of 220-kV bus tie CB)	1	Unit	Matanogawa Power Station	201909	202010	
92	Switchgear	Gas circuit breaker	120-kV gas circuit breaker (Rated normal current: 3,000 A, rated short-time current: 20 kA; For replacement works of No. 3 DTr primary CB)	1	Unit	Sakaiminato Substation	201912	202012	
93	Switchgear	Gas circuit breaker	120-kV gas circuit breaker (Rated normal current: 2,000 A, rated short-time current: 25 kA; For replacement works of 1 LCB of 110-kV transmission lines)	1	Unit	Tottori Substation	202001	202105	
94	Switchgear	Gas circuit breaker	120-kV gas circuit breaker (Rated normal current: 2,000 A, rated short-time current: 25 kA; For replacement works of 2 LCB of 110-kV transmission lines)	1	Unit	Tottori Substation	202001	202105	
95	Switchgear	Gas circuit breaker	72-kV gas circuit breaker (Rated normal current: 800 A, rated short-time current: 12.5 kA; For replacement works of circuit breakers of 66-kV transmission lines)	1	Unit	Asahi Power Station	202007	202110	
96	Switchgear	Gas circuit breaker	120-kV gas circuit breaker (Rated normal current: 3,000 A, rated short-time current: 31.5 kA; For replacement works of 110-kV bus tie (450) GCB)	1	Unit	Matsue Substation	201904	202005	
97	Switchgear	Gas circuit breaker	72-kV gas circuit breaker (Rated normal current: 800 A, rated short-time current: 20 kA; Change from vacuum circuit breaker; For replacement works of 1L (#705) CB of 66-kV transmission lines)	1	Unit	Masuda Substation	201904	202006	
98	Switchgear	Gas circuit breaker	72-kV gas circuit breaker (Rated normal current: 800 A, rated short-time current: 25kA; Change from vacuum circuit breaker; For replacement works of 1L (#701) CB of 66-kV transmission lines)	1	Unit	Masuda Substation	201906	202005	
99	Switchgear	Gas circuit breaker	72-kV gas circuit breaker (Rated normal current: 800 A, rated short-time current: 20 kA; For replacement works of GS for 66-kV No. 1 SHR)	1	Unit	Kita-Matsue Substation	201910	202012	
100	Switchgear	Gas circuit breaker	72-kV gas circuit breaker (Rated normal current: 800 A, rated short-time current: 20 kA; For replacement works of GS for No. 2 SC)	1	Unit	Matsue Substation	201912	202103	
101	Switchgear	Gas circuit breaker	72-kV gas switch (Rated normal current: 2,000A, rated short-time current: 31.5 kA; For replacement works of 183 and 184 GS, etc.)	2	Unit	Shin-Okayama Substation	201905	202008	
102	Switchgear	Gas circuit breaker	120-kV gas circuit breaker (Rated normal current: 1,200 A, rated short-time current: 31.5 kA; For expansion works of 110-kV interconnection transformers)	1	Unit	Ayabe Substation	201908	202103	
103	Switchgear	Gas circuit breaker	72-kV gas circuit breaker (Rated normal current: 2,000 A, rated short-time current: 25 kA; For expansion works of 110-kV interconnection transformers)	1	Unit	Ayabe Substation	201908	202103	
104	Switchgear	Gas circuit breaker	72-kV gas circuit breaker (Rated normal current: 800 A, rated short-time current: 20 kA; For #901 CB replacement works)	1	Unit	Higashi-Tsuyama Substation	201910	202010	
105	Switchgear	Gas circuit breaker	72-kV gas circuit breaker (1 unit: Rated normal current: 3,000A, rated short-time current: 40kA) 72-kV gas switch (1 unit: Rated normal current: 2,000 A, rated short-time current: 31.5kA) (For replacement works of 171 CB, 182 GS, etc.)	2	Unit	Shin-Okayama Substation	201911	202103	
106	Switchgear	Gas circuit breaker	72-kV gas circuit breaker (Rated normal current: 1,200 A, rated short-time current: 25 kA; For replacement works of No. 3 MTr-related CB etc.)	1	Unit	Okayama Substation	202001	202112	
107	Switchgear	Gas circuit breaker	72-kV gas circuit breaker (Rated normal current: 800 A, rated short-time current: 20 kA, CT2 core; 0.01 mg/cm ² ; For 2 LCB replacement works of 66-kV transmission lines)	1	Unit	Nishi-Ehara Substation	202003	202104	
108	Switchgear	Gas circuit breaker	120-kV gas circuit breaker (Rated normal current: 1,200 A, rated short-time current: 25 kA; Change from vacuum circuit breaker; For 2 LCB replacement works of 110-kV transmission lines)	1	Unit	Deguchi Substation	201906	202010	
109	Switchgear	Gas circuit breaker	72-kV gas circuit breaker (Rated normal current: 800 A, rated short-time current: 20 kA; Change from vacuum circuit breaker; For replacement works of Nos. 1 and 2 circuit breakers of 66-kV transmission lines)	1	Unit	Numakuma Substation	201908	202009	

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110	Switchgear	Gas circuit breaker	120-kV gas circuit breaker (Rated normal current: 3,000 A, rated short-time current: 40 kA; For CB replacement works of 110-kV transmission lines)	1	Unit	Higashi-Hiroshima Substation	201909	202010	Corporate Finance and Procurement Div. (Materials and equipment procurement)
111	Switchgear	Gas circuit breaker	240-kV gas circuit breaker (Rated normal current: 2,000 A, rated short-time current: 31.5 kA; Adapter base; For No. 3 Tr primary and secondary CB replacement works)	1	Unit	Kurose Substation	201912	202104	
112	Switchgear	Gas circuit breaker	120-kV gas circuit breaker (Rated normal current: 3,000 A, rated short-time current: 31.5 kA; Adapter base; For No. 3 Tr primary and secondary CB replacement works)	1	Unit	Kurose Substation	201912	202104	
113	Switchgear	Gas circuit breaker	120-kV gas circuit breaker (Rated normal current: 1,200 A, rated short-time current: 25 kA; Adapter base; For No. 3 Tr primary CB replacement works)	1	Unit	Miyahara Substation	201912	202104	
114	Switchgear	Gas circuit breaker	240-kV gas circuit breaker (Rated normal current: 4,000 A, rated short-time current: 31.5 kA; Adapter base For replacement works of 1L circuit breaker of 220-kV)	1	Unit	Kurose Substation	201912	202111	
115	Switchgear	Gas circuit breaker	120-kV gas circuit breaker (Rated normal current: 2,000 A, rated short-time current: 40 kA; For replacement works of 110-kV 2Tr secondary circuit breaker)	1	Unit	Hiroshima Substation	202001	202105	
116	Switchgear	Gas circuit breaker	240-kV gas circuit breaker (Rated normal current: 2,000 A, rated short-time current: 40 kA; For No. 4 main transformer primary CB replacement works)	1	Unit	Hiroshima Substation	202003	202111	
117	Switchgear	Gas circuit breaker	120-kV gas circuit breaker (Rated normal current: 1,200A, rated short-time current: 25 kA; For replacement works of 110-kV bus tie (800) CB)	1	Unit	Kabe Substation	202004	202106	
118	Switchgear	Gas circuit breaker	120-kV gas circuit breaker (Rated normal current: 1,200 A, rated short-time current: 31.5 kA; For replacement works of 110-kV bus tie (300) CB)	1	Unit	Yaguchi Substation	202004	202106	
119	Switchgear	Gas circuit breaker	72-kV gas circuit breaker (Rated normal current: 800 A, rated short-time current: 20 kA, salt resistance: 0.03mg/cm ² ; For replacement works of CB, etc. of 66-kV transmission lines)	1	Unit	Oomine Substation	201909	202012	
120	Switchgear	Gas circuit breaker	72-kV gas circuit breaker (Rated normal current: 1,200 A, rated short-time current: 20 kA; For replacement works of 66-kV bus tie CB, etc.)	1	Unit	Nanyo Substation	201910	202106	
121	Switchgear	Gas circuit breaker	72-kV gas circuit breaker (Rated normal current: 800 A, rated short-time current: 20 kA; For replacement works of CB, etc. of 66-kV transmission lines)	1	Unit	Ogoori Substation	202001	202109	Corporate Finance and Procurement Div. (Materials and equipment procurement)
122	Switchgear	Gas circuit breaker	72-kV gas circuit breaker (Rated normal current: 800 A, rated short-time current: 20kA, salt resistance: 0.12; For replacement works of No. 2 CB, etc. of 66-kV transmission lines)	1	Unit	Minami-Iwakuni Substation	202003	202105	
123	Switchgear	Gas insulated switchgear (GIS)	240-kV gas insulated composite switchgear GIS (Rated normal current: 4,000 A, rated short-time current: 63 kA; LS/LE; For 1 LCB replacement works of 220-kV transmission lines)	1	Unit	Shin-Hiroshima Substation	201909	202109	
124	Switchgear	Gas insulated switchgear (GIS)	120-kV gas insulated composite switchgear GIS (Rated normal current: 3,000 A, rated short-time current: 31.5 kA, salt resistance: 0.12 mg/cm ² , (1 breaking part, 4 disconnecting parts, 2 grounding devices) x 1 unit; (4 disconnecting parts) x 1 unit; For replacement works of CB, etc. of 110-kV transmission lines)	1	Set	Shimonoseki Substation	202008	202205	
125	Switchgear	Gas Composite Switchgear (GCS)	72-kV gas composite switchgear (Rated normal current: 800 A, rated short-time current: 20 kA,; For works such as conversion of 66-kV transmission lines to two-circuit lines)	2	Unit	Kawahara Substation	201906	202009	
126	Switchgear	Gas Composite Switchgear (GCS)	120-kV gas composite switchgear (GCS) (Rated normal current: 1,200 A, rated short-time current: 25 kA; CB/DS/ES/PT/LA; For works such as replacement of distribution transformer No. 1)	1	Unit	Akatsuka Power Station	201904	202006	
127	Switchgear	Disconnecting switches for electric power	72-kV disconnecting switch (Rated normal current: 1,200 A, rated short-time current: 20 kA; Automatic operation; 1 unit with automatic G, 2 units without automatic G; For replacement works of No. 3 interconnection transformers)	3	Unit	Yonago Substation	201906	202102	
128	Switchgear	Disconnecting switches for electric power	72-kV disconnecting switch (Rated normal current: 1,200 A, rated short-time current: 20 kA; For 3 TTr bus line maintenance works)	2	Unit	Yonago Substation	201907	202008	
129	Switchgear	Disconnecting switches for electric power	120-kV disconnecting switch LBS (Rated normal current: 1,200 A, rated short-time current: 25 kA; For replacement works of 110-kV bus 511 LBS)	1	Unit	Tamatsukuri Substation	202006	202110	

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Transmission equipment (188 item(s))

No	Facilities Classification	Item Name	Article Name/Construction Name/Work Task Name	Qty.	Unit	Delivery/Construction/ Implementation Locations	Scheduled Procurement Date	Delivery Deadline	Contract Group (Scheduled)	
130	Switchgear	Disconnecting switches for electric power	120-kV disconnecting switch (Rated normal current: 2,000 A; automatic G; 0.06 mg/cm ² ; For replacement works of 110-kV bus tie CB, etc.)	2	Unit	Chimiya Substation	202012	202106	Corporate Finance and Procurement Div. (Materials and equipment procurement)	
131	Switchgear	Disconnecting switches for electric power	120-kV disconnecting switch (Rated normal current: 1,200 A, rated short-time current: 40 kA; Horizontal one-point off; Motor-operated; For replacement works of disconnecting switches of No. 1 starting auxiliary transformer)	2	Unit	Tamashima Power Station	201904	202006		
132	Switchgear	Disconnecting switches for electric power	72-kV disconnecting switch: 1 LLS, unit 1 LE unit, 1 LS A unit, 1 LS B unit (Rated normal current: 2,000 A, rated short-time current: 20 kA; For replacement works of #845L/LE of 66-kV transmission lines, etc.)	3	Unit	Minami-Tsuyama Substation	201904	202011		
133	Switchgear	Disconnecting switches for electric power	120-kV disconnecting switch LLS, LE, BLS (Rated normal current: 1,200 A, rated short-time current: 25 kA; For replacement works of #605 L and LE)	3	Unit	Yubara-Daini Power Station	201904	202012		
134	Switchgear	Disconnecting switches for electric power	120-kV disconnecting switch (For works to motorize No. 2 Tr primary LS of 110-kV transmission lines, etc.)	1	Set	Kita-Hiroshima Substation	201905	201911		
135	Switchgear	Disconnecting switches for electric power	120-kV disconnecting switch (Rated normal current: 3,000 A, rated short-time current: 40 kA; Horizontal one-point off; Motor-operated; No G; For replacement works of disconnecting switches of No. 1 main transformer)	2	Unit	Tamashima Power Station	201905	202006		
136	Switchgear	Disconnecting switches for electric power	120-kV disconnecting switch (Rated normal current: 2,000 A, rated short-time current: 40 kA; Horizontal one-point off; Motor-operated; No G; For replacement works of disconnecting switches of 110-kV transmission lines)	4	Unit	Tamashima Power Station	201905	202006		
137	Switchgear	Disconnecting switches for electric power	120-kV disconnecting switch (Rated normal current: 3,000 A, rated short-time current: 40 kA; Horizontal one-point off; Motor-operated; No G; For replacement works of 110-kV bus tie disconnecting switches)	2	Unit	Tamashima Power Station	201906	202011		
138	Switchgear	Disconnecting switches for electric power	72-kV disconnecting switch (Rated normal current: 800 A, rated short-time current: 12.5 kA, horizontal two-point off; For replacement works of 301L/302LLS)	2	Unit	Taishakugawa Power Station	201907	202010		
139	Switchgear	Disconnecting switches for electric power	72-kV disconnecting switch (For outdoor-use; Rated normal current: 2,000 A, rated short-time current: 20 kA; 0.12 mg/cm ² ; Rack included; For replacement works of No. 3 MTr secondary 333 LS A, etc.)	2	Set	Mizushima Substation	201908	202007		
140	Switchgear	Disconnecting switches for electric power	3 120-kV disconnecting switch, 3 72-kV disconnecting switches (For expansion works of 110-kV interconnection transformers)	6	Unit	Ayabe Substation	201908	202103		
141	Switchgear	Disconnecting switches for electric power	240-kV disconnecting switch (Rated normal current: 2,000 A, rated short-time current: 40 kA; Use of same rack; For replacement works of No. 3 MTr primary LS)	2	Unit	Okayama Substation	202001	202112		Corporate Finance and Procurement Div. (Materials and equipment procurement)
142	Switchgear	Disconnecting switches for electric power	72-kV disconnecting switch (Rated normal current: 800 A, rated short-time current: 20 kA; With grounding device; For replacement works of 1 and 2 L disconnecting switch of 66-kV transmission lines)	2	Unit	Oomoto Substation	202105	202005		
143	Switchgear	Disconnecting switches for electric power	120-kV disconnecting switch (Rated normal current: 800 A; For 110-kV NGL installation works)	2	Unit	Shin-Tokuyama Substation	201908	202104		
144	Switchgear	Disconnecting switches for electric power	120-kV disconnecting switch (Rated normal current: 3,000 A, rated short-time current: 40 kA; 4 units for bus category, 2 units for lines (with grounding device); For line-drawing works of 110-kV transmission lines)	6	Unit	Shin-Tokuyama Substation	201912	202101		
145	Switchgear	Disconnecting switches for electric power	120-kV disconnecting switch (Rated normal current: 1,200 A, rated short-time current: 31.5 kA, salt resistance: 0.35 mg/cm ² , horizontal one-point off, motor operated, with grounding device and rack included; For replacement works of 1 and 2 LCB, etc. of 110-kV transmission lines)	2	Unit	Onoda Substation	202006	202107		
146	Switchgear	Disconnecting switches for electric power	120-kV disconnecting switch (Rated normal current: 3,000 A, rated short-time current: 31.5 kA, salt resistance: 0.12 mg/cm ² , horizontal one-point off, motor operated, with grounding device and rack included; For replacement works of CB, etc. of 110-kV transmission lines)	2	Unit	Shimonoseki Substation	202008	202205		

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Transmission equipment (188 item(s))

No	Facilities Classification	Item Name	Article Name/Construction Name/Work Task Name	Qty.	Unit	Delivery/Construction/ Implementation Locations	Scheduled Procurement Date	Delivery Deadline	Contract Group (Scheduled)
147	Transformers	Power transformers (Less than 220-kV)	Interconnection transformer (110/66 kV, 1,000 MVA, primary outdoor (0.03), secondary cable-drawing (T-shaped oil-immersed terminal), automatic cooling type, low noise, transformer protective panel, LR control panel; For replacement works of No. 3 interconnection transformers)	1	Unit	Yonago Substation	201906	202102	Corporate Finance and Procurement Div. (Materials and equipment procurement)
148	Transformers	Power transformers (Less than 220-kV)	Distribution transformer (110 kV/6.6 kV, 20/20/(4) MVA, Y-Y-(Δ); For 1 DTr replacement works)	1	Unit	Kurayoshi Substation	202001	202111	
149	Transformers	Power transformers (Less than 220-kV)	Transformer (66/6/22 kV, 20/15/10 MVA; For 66-kV No. 2 distribution transformer replacement works)	1	Unit	Yamada Substation	201904	202101	
150	Transformers	Power transformers (Less than 220-kV)	Distribution transformer (107.5/6.9 kV, 25 MVA; With primary neutral point LA; Including installation and adjustment; For No. 1 distribution transformer replacement works)	1	Unit	Zyoutou Substation	201905	202012	
151	Transformers	Power transformers (Less than 220-kV)	Transformer (66/6/22 kV, 25/20/15 MVA; For replacement works of No. 2 distribution transformer)	1	Unit	Ukan Substation	201910	202107	
152	Transformers	Power transformers (Less than 220-kV)	Transformer (21.5/6.9 kV, 15 MVA; For replacement works of No. 1 transformer)	1	Unit	Zyounge Substation	202006	202111	
153	Transformers	Power transformers (Less than 220-kV)	Main transformer protective panel, LR control panel, main transformer ground fault protective panel (For replacement works of No. 3 MTr protective panel, etc.)	3	Panel	Mizushima Substation	201904	202012	
154	Transformers	Power transformers (Less than 220-kV)	Transformer protective panel, main transformer ground fault protective panel (For replacement works of No. 2 MTr protective panel, etc.)	2	Panel	Minami-Tsuyama Substation	FY 2019	202012	
155	Transformers	Power transformers (Less than 220-kV)	Transformer protective panel (For replacement works of transformer protective panel)	1	Set	Inokuchi Substation	201905	202009	
156	Transformers	Power transformers (Less than 220-kV)	Ground fault protective panel (For reconstruction works of transformer primary and main station building)	1	Set	Nishi-Hiroshima Substation	201908	202202	
157	Transformers	Power transformers (Less than 220-kV)	LR control panel (For reconstruction works of interconnection transformers and main station building)	1	Set	Nishi-Hiroshima Substation	201908	202202	
158	Transformers	Power transformers (Less than 220-kV)	Transformer protective panel (For expansion works of No. 2 distribution transformer)	1	Panel	Kannon Substation	202007	202110	
159	Transformers	Power transformers (Less than 220-kV)	LR control panel (For replacement works of Nos. 2 and 3 transformer, monitoring/control equipment, etc.)	1	Set	Yamaguchi Substation	202001	202109	
160	Transformers	Power transformers (Less than 220-kV)	Transformer protective panel (For replacement works of Nos. 2 and 3 monitoring/control equipment, etc.)	1	Set	Yamaguchi Substation	202001	202109	
161	Protective devices	Other protectors	DZ/DG (For replacement works of 220-kV bus tie relay)	1	Panel	Okayama Substation	201911	202106	
162	Protective devices	Other protectors	DZ/DG (For replacement works of 500/220-kV bus tie relay)	2	Panel	Higashi-Okayama Substation	202004	202111	
163	Protective devices	Automatic recovery equipment	Station automatic recovery equipment (All-operation stoppage/shutdown; For replacement works of station automatic recovery panel)	1	Set	Tamano Substation	202006	202105	
164	Protective devices	Automatic recovery equipment	ARE (Circuit unit system: 12 circuits; For replacement work of 110-kV automatic recovery equipment due to reconstruction works of main station building)	1	Set	Nishi-Hiroshima Substation	201907	202106	
165	Protective devices	Automatic recovery equipment	ARE (Circuit unit system: 8 circuits; For replacement work of 22-kV automatic recovery equipment due to reconstruction works of main station building)	1	Set	Nishi-Hiroshima Substation	201907	202112	
166	Protective devices	transmission lines protectors	Relay panel (DZ/DG: 1 circuit; For interconnection works of 110-kV transmission lines)	1	Panel	Sakaiminato Substation	201904	202010	Corporate Finance and Procurement Div. (Materials and equipment procurement)
167	Protective devices	transmission lines protectors	Relay panel (DZ/DG: 1 circuit; For replacement works of 66-kV transmission line relays, etc.)	2	Panel	Oota Substation	201910	202104	
168	Protective devices	transmission lines protectors	Relay panel (SS1; 2 L integration + DZ unit separation; For replacement works of 110-kV transmission line relays)	2	Panel	Fujita Substation	201904	202009	
169	Protective devices	transmission lines protectors	Relay panel (SS/SG + DZ/DG; For replacement works of 66-kV transmission line relay panels)	2	Panel	Kume Substation	201904	202103	

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Transmission equipment (188 item(s))

No	Facilities Classification	Item Name	Article Name/Construction Name/Work Task Name	Qty.	Unit	Delivery/Construction/ Implementation Locations	Scheduled Procurement Date	Delivery Deadline	Contract Group (Scheduled)
170	Protective devices	transmission lines protectors	Relay panel (SS/SG + DZ/DG; For replacement works of 66-kV transmission line relay panels)	2	Panel	Tsuyama Substation	201904	202103	Corporate Finance and Procurement Div. (Materials and equipment procurement)
171	Protective devices	transmission lines protectors	Relay panel (DZ/DG; For replacement works of 22-kV-related relays)	1	Panel	Kokutaichou Substation	201905	202005	
172	Protective devices	transmission lines protectors	Relay panel (SS; 1 and 2 L integration + DZ unit separation; For replacement works of 66-kV transmission line relays)	2	Panel	Kushida Substation	201908	202105	
173	Protective devices	transmission lines protectors	Relay panel (PCM + DZ/DG; 1 and 2 L integration main unit 2 system + 1 and 2 L backup; For replacement works of transmission line relays)	3	Panel	Shimada Substation	202004	202101	
174	Protective devices	transmission lines protectors	Relay panel (DZ/DG; For replacement works of 66-kV transmission line relay panels)	1	Panel	Tahara Power Station	202104	202302	
175	Protective devices	transmission lines protectors	Relay panel (PCM + DZ; 1 and 2 L integration main 2 system + 1 and 2 L backup; For replacement works of protective relays of 110-kV transmission lines)	1	Set	Nishi-Hirosshima Substation	201907	202106	
176	Protective devices	transmission lines protectors	Relay panel (SS + DZ; 1 and 2 L main + 1 and 2 L backup; For replacement works of 1 and 2 L protective relays of 22-kV transmission lines)	1	Set	Nishi-Hirosshima Substation	201907	202112	
177	Protective devices	transmission lines protectors	Relay panel (DG + OVG; 2 circuits (bi-directional); Ry installation works due to GIS modification works)	1	Set	Hakushima Substation	201908	202009	
178	Protective devices	transmission lines protectors	Relay panel (Circuit selection; No SS option + No DZ/DG two-circuit option; For Ry replacement works of 110-kV transmission lines)	2	Panel	Doi Power Station	201909	202010	
179	Protective devices	transmission lines protectors	Relay panel (PCM relay; 1 and 2 L integration 2 system + Circuit separation 1 system; For installation works of 110-kV transmission line relays)	3	Panel	Shin-Tokuyama Substation	201904	202109	
180	Protective devices	transmission lines protectors	Relay panel (PCM relay; 1 and 2 L integration 2 system + Circuit separation 1 system; For installation works of 110-kV transmission line relays)	3	Panel	Nanyo Substation	201904	202109	
181	Protective devices	transmission lines protectors	Relay panel (Directional distance protective relay (with trip circuit disconnection monitoring function); Accessories; For 110-kV transmission lines)	1	Panel	Shin-Onoda Power Station	201905	202008	
182	Protective devices	transmission lines protectors	Relay panel (PCM current differential relay; 1 and 2 L integration main 2 system + 1 and 2 L backup; For replacement works of 110-kV transmission line relays)	3	Panel	Yamaguchi Substation	201910	202102	
183	Protective devices	transmission lines protectors	Relay panel (Circuit selection; SS + DZ/DG two-circuit; For replacement works of 110-kV transmission line relays)	2	Panel	Shin-Oouchi Substation	201910	202103	
184	Protective devices	transmission lines protectors	Relay panel (110-kV bus tie relay; Single-phase voltage; For installation works of 110-kV bus tie relays)	1	Panel	Shin-Yamaguchi Substation	201910	202104	
185	Protective devices	transmission lines protectors	Relay panel (PCM current differential relay; 1 and 2 L integration main 2 system + 1 and 2 L backup; For installation works of transmission line relays)	3	Panel	Shin-Yamaguchi Substation	201910	202104	
186	Protective devices	transmission lines protectors	Relay panel (Directional distance protective relay; DZ/DG two-circuit; No options; For replacement works of 110-kV transmission line relays)	1	Panel	Nishi-Shimonoseki Switching Station	201912	202105	
187	Protective devices	Bus protectors	110-kV bus protector (9 circuits installed; For 110-kV BP installation work)	2	Panel	Nanyo Substation	201904	202205	
188	Protective devices	Bus protectors	110-kV bus protector (Consolidated + Divided current differential relaying system; For installation works of 110-kV bus protector relays)	2	Panel	Shin-Yamaguchi Substation	201910	202104	

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Civil engineering/internal combustion equipment(8 item(s))

No	Facilities Classification	Item Name	Article Name/Construction Name/Work Task Name	Qty.	Unit	Delivery/Construction/ Implementation Locations	Scheduled Procurement Date	Delivery Deadline	Contract Group (Scheduled)
1	Internal combustion equipment	Devices for internal combustion power generation	Unit 1 initial excitation panel, Unit 2 initial excitation panel (For replacement works)	2	Panel	Saigou Power Station	201904	201911	Corporate Finance and Procurement Div. (Materials and equipment procurement)
2	Internal combustion equipment	Devices for internal combustion power generation	ACB for station use (For replacement works of outdoor circuit breakers, station power source panel ACB, etc.)	6	Unit	Saigou Power Station	201904	201911	
3	Internal combustion equipment	Devices for internal combustion power generation	Unit 2 engine control panel (For replacement works)	2	Panel	Saigou Power Station	201912	202103	
4	Internal combustion equipment	Devices for internal combustion power generation	Unit 2 automatic control panel (For replacement works)	2	Panel	Saigou Power Station	201912	202103	
5	Internal combustion equipment	Devices for internal combustion power generation	Unit 3 engine control panel (For replacement works)	2	Panel	Saigou Power Station	202012	202203	
6	Internal combustion equipment	Devices for internal combustion power generation	Unit 3 automatic control panel (For replacement works)	2	Panel	Saigou Power Station	202012	202203	
7	Internal combustion equipment	Devices for internal combustion power generation	Unit 4 relay panel (For replacement works)	1	Panel	Saigou Power Station	202012	202203	
8	Internal combustion equipment	Devices for internal combustion power generation	40-kL underground fuel tank (For installation works)	3	Unit	Mishima Power Station	201910	202005	

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Communication equipment (17 item(s))

No	Facilities Classification	Item Name	Article Name/Construction Name/Work Task Name	Qty.	Unit	Delivery/Construction/ Implementation Locations	Scheduled Procurement Date	Delivery Deadline	Contract Group (Scheduled)
1	Communication equipment	Oscilloscope transmission equipment	Oscilloscope transmission equipment (For replacement works of oscilloscope equipment)	1	Set	Yonago Substation	201908	202110	Corporate Finance and Procurement Div. (Materials and equipment procurement)
2	Communication equipment	Oscilloscope transmission equipment	Oscilloscope transmission equipment (NEO-5000-18; Small-capacity type; For replacement works of 500-kV oscilloscope transmission equipment)	2	Panel	Nishi-Shimane Substation	201908	202106	
3	Communication equipment	Oscilloscope transmission equipment	Oscilloscope transmission equipment (For replacement works of 110/66-kV oscilloscope equipment)	2	Panel	Saidaizi Substation	201904	202008	
4	Communication equipment	Oscilloscope transmission equipment	Oscilloscope transmission equipment (110 kV, automatic, 2 buses + 13 circuits; For reconstruction works of main station building)	1	Set	Nishi-Hiroshima Substation	201907	202106	
5	Communication equipment	Oscilloscope transmission equipment	Oscilloscope transmission equipment (22kV, automatic, 2 buses + 9 circuits; For reconstruction works of main station building)	1	Set	Nishi-Hiroshima Substation	201907	202112	
6	Communication equipment	Optical terminal equipment	Optical wavelength division multiplexing equipment (For maintenance works of Kurashiki area local-system optical telecommunication network)	1	Unit	Kurashiki Service Office	201904	201909	
7	Communication equipment	Optical terminal equipment	Optical wavelength division multiplexing equipment (For maintenance works of FY 2019 Takahashi area local-system optical telecommunication network)	3	Unit	Takahashi Substation, etc.	201904	201909	
8	Communication equipment	Optical terminal equipment	32-M optical terminal equipment (For replacement works)	5	Unit	Shinkurashiki Substation, etc.	202001	202010	
9	Communication equipment	Optical terminal equipment	32-M optical terminal equipment (For replacement works)	2	Unit	Takahashi Substation	202001	202010	
10	Communication equipment	Optical terminal equipment	1.5-M MUX (Newly installed; For telephone circuit maintenance works)	4	Unit	Shunan Power Station Communications Office, etc.	201908	202002	
11	Communication equipment	Radio equipment	Wireless LAN control equipment (Wireless LAN controller (2 units with redundant configuration), authentication server (2 units with redundant configuration), F/W for general office OA network connection (2 units with redundant configuration), illegal access prevention system (1 unit); For constructing a wireless LAN environment of electric power station)	1	Set	Location specified by Chugoku Electric (Hiroshima Pref., etc.)	201904	201910	
12	Communication equipment	Radio equipment	Wireless LAN access point (2019: 175 units; 2020: 277 units; 2021: 275 units; 2022: 218 units; 2023: 120 units; For constructing a wireless LAN environment of electric power station)	1,065	Unit	Location specified by Chugoku Electric (Hiroshima Pref., etc.)	201904	202403	
13	Communication equipment	Other communication equipment	IP-SW unit (19-inch rack, DC/AC inverter, 1 set of IP-SW); Terminals (1 set of multi-functional telephones and regular telephones) (For works to convert internal business lines to IP telephones)	1	Set	Masuda Power Management Office	201905	202002	
14	Wires/Cables	Power cable/Submarine cable	IP-SW unit (19-inch rack, DC/AC inverter, 1 set of IP-SW); Terminals (1 set of multi-functional telephones and regular telephones) (For works to convert internal business lines to IP telephones)	1	Set	Hamada Power Management Office	201905	202002	
15	Communication equipment	Other communication equipment	Flexible frequency TM parent equipment (Including installation and adjustment; For replacement works)	1	Set	Location specified by Chugoku Electric (Yamaguchi Pref.)	201908	202004	
16	Communication equipment	Other communication equipment	Aerial lines (Including installation and directional adjustment)	1	Panel	Shin Nishi-Hiroshima Substation, etc.	201904	202003	
17	Communication equipment	Other communication equipment	IP converters (Total of 14 locations; For FY 2020 installation works of IP converters)	26	Unit	Kake Control Relay Station, etc.	202002	202009	

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Distribution equipment (24 item(s))

No	Facilities Classification	Item Name	Article Name/Construction Name/Work Task Name	Qty.	Unit	Delivery/Construction/ Implementation Locations	Scheduled Procurement Date	Delivery Deadline	Contract Group (Scheduled)
1	Electric energy meters	Extra-high voltage instrument transformers	110-kV VCT (GIS direct coupling; Kurashiki Service Office)	1	Unit	Location specified by Chugoku Electric (Okayama Pref.)	201909	202102	Corporate Finance and Procurement Div. (Materials and equipment procurement)
2	Electric energy meters	Extra-high voltage instrument transformers	220-kV VCT (Outdoor-type; Kurashiki Service Office)	1	Unit	Location specified by Chugoku Electric (Okayama Pref.)	201912	202102	
3	Electric energy meters	Extra-high voltage instrument transformers	220-kV: 6 CVT units (Capacitance potential device), 6 CT units (Current transformer for meters) (Hiroshima Service Office)	12	Unit	Location specified by Chugoku Electric (Hiroshima Pref.)	201904	202011	
4	Electric energy meters	Extra-high voltage instrument transformers	6-kV VCT (For installation works of meters with test function)	1	Unit	Takimoto Power Station	201906	202010	
5	Electric energy meters	Extra-high voltage instrument transformers	110-kV VCT (GIS direct coupling; Yamaguchi Service Office)	1	Unit	Location specified by Chugoku Electric (Yamaguchi Pref.)	201904	202004	
6	Electric energy meters	Extra-high voltage instrument transformers	110-kV VCT (Outdoor; Yamaguchi Service Office)	1	Set	Location specified by Chugoku Electric (Yamaguchi Pref.)	201904	202005	
7	Electric energy meters	Extra-high voltage instrument transformers	110-kV VCT (GIS direct coupling; Yamaguchi Service Office)	1	Unit	Location specified by Chugoku Electric (Yamaguchi Pref.)	201904	202007	
8	Electric energy meters	Extra-high voltage instrument transformers	66-kV VCT (Outdoor; Yamaguchi Service Office)	1	Unit	Location specified by Chugoku Electric (Yamaguchi Pref.)	201908	202008	
9	Electric energy meters	Extra-high voltage instrument transformers	66-kV VCT (Outdoor; Yamaguchi Service Office)	1	Unit	Location specified by Chugoku Electric (Yamaguchi Pref.)	201908	202008	
10	Electric energy meters	Extra-high voltage instrument transformers	66-kV VCT (Oil-filled nitrogen-sealed type for outdoor use; Shunan Service Office)	1	Unit	Location specified by Chugoku Electric (Yamaguchi Pref.)	201912	202101	
11	Distribution equipment	On-street transformers	On-street transformer (100 + 50; Salt-resistant; Tottori Service Office)	5	Unit	Location specified by Chugoku Electric (Tottori Pref.)	201904	201910	
12	Distribution equipment	On-street transformers	On-street transformer (100 + 50; Salt-resistant; Tottori Service Office)	4	Unit	Location specified by Chugoku Electric (Tottori Pref.)	201905	201910	
13	Distribution equipment	On-street transformers	On-street transformer (Low-noise type, mold disconnection front door, 400 sq-compatible, 50 + 100-kVA, salt resistant) (Matsue Service Office)	3	Unit	Location specified by Chugoku Electric (Shimane Pref.)	201909	201911	
14	Wires/Cables	Power cable/Submarine cable	On-street transformer (For conversion to underground distribution lines; Higashihiroshima Service Office)	6	Unit	Location specified by Chugoku Electric (Hiroshima Pref.)	201909	202001	
15	Distribution equipment	Other distribution transformer	Transformer (200 kVA; For distribution line towers; Hiroshima Service Office)	3	Unit	Location specified by Chugoku Electric (Yamaguchi Pref.)	201904	201909	
16	Distribution equipment	Other distribution transformer	Tie transformer (2,000 kVA; Salt-resistant; Shimonoseki Service Office)	1	Unit	Location specified by Chugoku Electric (Yamaguchi Pref.)	201904	202003	
17	Distribution equipment	SVR	Automatic voltage regulator SVR compatible with dispersed power source (5,000 kVA; Fukuyama Service Office)	1	Unit	Youkura Substation	201904	201910	
18	Distribution equipment	SVR	Automatic voltage regulator SVR compatible with dispersed power source (6 kV, 5,000 kVA; Yanai Service Office)	1	Unit	Location specified by Chugoku Electric (Yamaguchi Pref.)	FY2019	2019年度	
19	Distribution equipment	Other regulating and phase modification	Thyristor-type automatic voltage regulators TVR (Yonago Service Office)	1	Unit	Location specified by Chugoku Electric (Tottori Pref.)	201904	201909	
20	Distribution equipment	Other regulating and phase modification	Static var compensator SVG (Yonago Service Office)	1	Unit	Location specified by Chugoku Electric (Tottori Pref.)	201904	201909	
21	Distribution equipment	Other regulating and phase modification	Static var compensator SVG (Kurayoshi Service Office)	1	Unit	Location specified by Chugoku Electric (Tottori Pref.)	201904	201910	
22	Distribution equipment	Other regulating and phase modification	Thyristor-type automatic voltage regulators TVR (3,000 kVA; Matsue Service Office)	1	Unit	Location specified by Chugoku Electric (Shimane Pref.)	201904	201906	
23	Distribution equipment	Other regulating and phase modification equipment	Self-exciting static var compensator STATCOM (6.6 kV, ±300 kVar; Salt-resistant specifications; For countermeasures due to interconnection with wind power generation plant; Sanin Power Station)	10	Unit	Kuroki Power Station	201909	202010	
24	Distribution equipment	Other regulating and phase modification	Static var compensator SVG (300 kVA; Fukuyama Service Office)	1	Unit	Location specified by Chugoku Electric (Hiroshima Pref.)	201904	202002	

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Other equipment (30 item(s))

No	Facilities Classification	Item Name	Article Name/Construction Name/Work Task Name	Qty.	Unit	Delivery/Construction/ Implementation Locations	Scheduled Procurement Date	Delivery Deadline	Contract Group (Scheduled)
1	Other equipment	ITV (Industrial-use TV, monitoring camera)	Ethernet converter (For ITV replacement works)	10	Unit	Awa Radio Relay Station, etc.	201907	201910	Corporate Finance and Procurement Div. (Materials and equipment procurement)
2	Other equipment	Rectifiers	Control rectifier, storage battery (Including installation and adjustment; Replacement)	1	Set	Funairi Substation	201904	202001	
3	Other equipment	Rectifiers	Control rectifier, storage battery (Replacement)	1	Set	Oomishima Substation	201904	202006	
4	Other equipment	Rectifiers	Disposal works due to control rectifier and storage battery replacement	1	Set	Oomishima Substation	201904	202006	
5	Other equipment	Rectifiers	Control rectifier (Thyristor-type, 3P, 200 V, 100 V, 75 A); Storage battery (CS-400 Ah, 52 cells; Replacement)	1	Set	Minoshima Substation	201904	202007	
6	Other equipment	Rectifiers	Disposal works due to control rectifier and storage battery replacement	1	Set	Minoshima Substation	201904	202007	
7	Other equipment	Rectifiers	Communications rectifier (48 V, 200 A; Replacement)	1	Unit	Ube Service Office	201904	201910	
8	Other equipment	Rectifiers	Communications rectifier (48 V, 300 A; Replacement)	2	Unit	Ymaguchi Regional Office	201904	201911	
9	Other equipment	Rectifiers	Communications storage battery (MSE, 2,000 Ah; Replacement)	24	Cell	Ymaguchi Regional Office	201904	201911	
10	Other equipment	Rectifiers	Control rectifier (AC 200 V, DC 100 V, 75 A; Including installation and adjustment; Replacement)	1	Set	Onoda Substation	201904	202003	
11	Other equipment	Rectifiers	Disposal works due to control rectifier replacement	1	Set	Onoda Substation	201904	202003	
12	Other equipment	Rectifiers	Rectifier for communications (48 V, 150 A; Replacement)	1	Unit	Yamaguchi Substation	201904	202007	
13	Other equipment	Rectifiers	Communications storage battery (MSE, 1,000 Ah; Replacement)	24	Cell	Yamaguchi Substation	201904	202007	
14	Wires/Cables	Power cable/Submarine cable	Communications rectifier (48 V, 200 A; Replacement)	1	Unit	Shimonoseki Power Station	201904	202008	
15	Other equipment	Rectifiers	Communications rectifier (48 V, 200 A; Replacement)	1	Unit	Location specified by Chugoku Electric (Yamaguchi Pref.)	201904	202008	
16	Other equipment	Rectifiers	Rectifier (Thyristor-type, 150 A); Storage battery (700 Ah, 54 cells) (Including installation, adjustment, and trial operation; Replacement)	1	Set	Yamaguchi Substation	201905	202008	
17	Other equipment	Rectifiers	Disposal works due to rectifier, etc. replacement (Not applicable to rectifier)	1	Set	Yamaguchi Substation	201905	202008	
18	Other equipment	DC power source	Rectifier (200 V, 200 A); Storage battery (MSE-600 AH, 300 AH, 24 cells x 2 sets) (Replacement of 48V-A system power source)	1	Set	Tottori Control Relay Station	201904	202006	
19	Other equipment	DC power source	Rectifier (30A); Storage battery (CS-130E, 52 cells) (Replacement)	1	Unit	Taki Substation	202104	202203	
20	Other equipment	DC power source	Storage battery (CS-400E); Rectifier (100A) (Replacement)	1	Set	Minami-Okayama Substation	201904	201903	
21	Other equipment	DC power source	Rectifier (AC 200 V, DC 100 V, 30 A); Storage battery (CSE-130 Ah, 52 cells) (Including installation and adjustment; Replacement)	1	Unit	Oomoto Substation	201904	202002	
22	Other equipment	DC power source	Disposal works due to replacement of DC power source equipment (Existing rectifier, storage battery)	1	Set	Oomoto Substation	201904	202002	
23	Other equipment	DC power source	Rectifier (AC 200 V, DC 100 V, 30 A); Storage battery (CSE-130 Ah, 52 cells) (Including installation and adjustment; For DC power source equipment replacement works)	1	Unit	Tonoshou Substation	201904	202009	
24	Other equipment	DC power source	Disposal works due to replacement of DC power source equipment (Existing rectifier, storage battery)	1	Set	Tonoshou Substation	201904	202009	

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Other equipment (30 item(s))

No	Facilities Classification	Item Name	Article Name/Construction Name/Work Task Name	Qty.	Unit	Delivery/Construction/ Implementation Locations	Scheduled Procurement Date	Delivery Deadline	Contract Group (Scheduled)
25	Other equipment	DC power source	Rectifier (AC 200 V, DC 100 V, 30 A); Storage battery (CSE-90 Ah, 52 cells) (Including installation and adjustment; For DC power source equipment replacement works)	1	Set	Zyoutou Substation	201904	202009	Corporate Finance and Procurement Div. (Materials and equipment procurement)
26	Other equipment	DC power source	Disposal works due to replacement of DC power source equipment (Existing rectifier, storage battery)	1	Set	Zyoutou Substation	201904	202009	Corporate Finance and Procurement Div. (Materials and equipment procurement)
27	Other equipment	DC power source	Rectifier (DC 48-V, 200-A); Storage battery (1000-Ah, 25 cells) (Including adjustment and trial operation; For replacement works of power source equipment for 2 system communications)	1	Set	Kurashiki Power Management Office	201905	202008	
28	Other equipment	DC power source	Rectifier (DC 48 V, 25 A); Storage battery (500 Ah, 24 cells) (Including adjustment and trial operation; Replacement)	1	Set	Shibukawa Transceiver Station, etc.	FY2019	202005	
29	Other equipment	Emergency generator	Emergency generator (No. 1; Replacement)	1	Unit	Higashi-Yamaguchi Substation	201909	202101	
30	Other equipment	Chemical measurement equipment	Automated salt content measuring equipment (Replacement)	1	Set	Tamano Substation	201912	202103	