

Procurement Plan for Our Electric Power Facilities

(Category: Equipment and Materials for Substations)

(Conditions below are subject to change.)

Description and Specifications		Quantity	Unit	Requesting Office/Station	Month of quotation	Month of delivery
Protection relay system	110 kV Selective and Distance relay panel	1	set	Minami Kumamoto Substation	Feb-2012	Dec-2012
Protection relay system	110 kV Selective and Distance relay panel	1	set	Uto Substation	Feb-2012	Dec-2012
Protection relay system	110 kV Auto-reclosing panel (type A)	1	set	Minami Kumamoto Substation	Feb-2012	Dec-2012
Protection relay system	110 kV Transformer protection panel (for two-winding transformer)	2	set	Minato Substation	Apr-2012	Mar-2013
Protection relay system	110kV Busbar protection : two current differential schemes	1	set	Minato Substation	Apr-2012	Mar-2013
Protection relay system	220 kV Feeder protection : Current differential scheme (PCM) + Distance relay	4	set	Himuka Substation	Mar-2012	Mar-2013
Protection relay system	220 kV Automatic switching panel for PD transfer	1	set	Himuka Substation	Mar-2012	Mar-2013
Protection relay system	220 kV Transformer protection panel (for two-winding transformer)	2	set	Isahaya Substation	Oct-2011	Aug-2012
Protection relay system	220 kV Transformer protection panel (for two-winding transformer)	1	set	Nishi Oita Substation	Nov-2011	Oct-2012
Protection relay system	220 kV Transformer protection panel (for two-winding transformer)	1	set	Koujaku Substation	Oct-2011	Aug-2012
Protection relay system	220 kV Transformer protection panel (for two-winding transformer)	1	set	Wakamatsu Substation	Jun-2012	Apr-2013
Protection relay system	220 kV Transformer protection panel (for two-winding transformer)	1	set	Yamae Substation	Nov-2011	May-2012
Protection relay system	220 kV Bus isolation protection panel	1	set	Buzen Substation	Sep-2011	Jul-2012
Protection relay system	220 kV Bus isolation protection panel	1	set	Minami Kumamoto Substation	Dec-2011	Oct-2012
Protection relay system	220 kV Bus isolation protection panel	1	set	Karatsu Substation	Oct-2011	Aug-2012
Protection relay system	220 kV Bus isolation protection panel	1	set	Tsukita Switching Station	Jun-2012	Apr-2013
Protection relay system	220 kV Bus isolation protection panel	1	set	Tosu Substation	Oct-2011	Aug-2012
Protection relay system	220 kV Bus isolation protection panel	1	set	Koujaku Substation	Jun-2012	Apr-2013
Protection relay system	220 kV Bus isolation protection panel	1	set	Wakamatsu Substation	Jun-2012	Apr-2013
Protection relay system	220 kV Bus isolation protection panel	1	set	Miike Substation	Apr-2012	Mar-2013
Protection relay system	220 kV Busbar protection : two current differential schemes	1	set	Kirishima Substation	Mar-2012	Jan-2013

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Protection relay system	220 kV Busbar protection : two current differential schemes	1	set	Buzen Substation	Sep-2011	Jul-2012
Protection relay system	220 kV Busbar protection : two current differential schemes	1	set	Karatsu Substation	Oct-2011	Aug-2012
Protection relay system	220 kV Busbar protection : two current differential schemes	1	set	Tsukita Switching Station	Jun-2012	Apr-2013
Protection relay system	220 kV Busbar protection : two current differential schemes	1	set	Tosu Substation	Oct-2011	Aug-2012
Protection relay system	220 kV Busbar protection : two current differential schemes	1	set	Koujaku Substation	Oct-2011	Aug-2012
Protection relay system	220 kV Busbar protection : two current differential schemes	1	set	Wakamatsu Substation	Jun-2012	Apr-2013
Protection relay system	220 kV Busbar protection : two current differential schemes	1	set	Miike Substation	Apr-2012	Mar-2013
Protection relay system	220 kV Busbar protection : two current differential schemes	1	set	Himuka Substation	Mar-2012	Mar-2013
Protection relay system	22 kV digital type Distance relay panel	1	set	Aoto Substation	Feb-2012	Dec-2012
Protection relay system	22 kV Spot network system	2	set	Chiyo Substation	Sep-2011	Aug-2012
Protection relay system	500 kV Distance relay panel	2	set	Minami Kyusyu Substation	Jun-2012	Apr-2013
Protection relay system	500 kV Transformer protection panel (for three-winding transformer)	2	set	Kumamoto Substation	Aug-2011	Dec-2012
Protection relay system	66 kV Feeder protection : Current differential scheme (PCM) + Distance relay	1	set	Moji Substation	Dec-2011	Oct-2012
Protection relay system	66 kV Feeder protection : Current differential scheme (PCM) + Distance relay	1	set	Hakozakihama Substation	Nov-2011	Oct-2012
Protection relay system	66 kV Feeder protection : Current differential scheme (PCM) + Distance relay	1	set	Higashi Fukuoka Substation	Jun-2012	Apr-2013
Protection relay system	66 kV Feeder protection : Current differential scheme (PCM) + Distance relay	1	set	Higashi Fukuoka Substation	Jun-2012	Apr-2013
Protection relay system	66 kV Feeder protection : Current differential scheme (PCM) + Distance relay	2	set	Tenjin Substation	Jun-2011	Apr-2012
Protection relay system	66 kV Feeder protection : Current differential scheme (PCM) + Distance relay	1	set	Ohori Substation	Jun-2012	Apr-2013
Protection relay system	66 kV Feeder protection : Current differential scheme (PCM) + Distance relay	1	set	Sone Substation	Dec-2011	Oct-2012
Protection relay system	66 kV Feeder protection : Current differential scheme (PCM) + Distance relay	1	set	Maematsubara Substation	Jun-2012	Apr-2013
Protection relay system	66 kV Feeder protection : Current differential scheme (PCM) + Distance relay	1	set	Maematsubara Substation	Jun-2012	Apr-2013

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Protection relay system	66 kV Feeder protection : Current differential scheme (PCM) + Distance relay	1	set	Nishijin Substation	Jun-2012	Apr-2013
Protection relay system	66 kV Feeder protection : Current differential scheme (PCM) + Distance relay	1	set	Suzaki Substation	Jun-2011	Apr-2012
Protection relay system	66 kV Feeder protection : Current differential scheme (PCM) + Distance relay	1	set	Matsugae Substation	Dec-2011	Oct-2012
Protection relay system	66 kV Feeder protection : Current differential scheme (PCM) + Distance relay	1	set	Sumiyoshi Substation	Jun-2011	Apr-2012
Protection relay system	66 kV Feeder protection : Current differential scheme (PCM) + Distance relay	1	set	Murasakibaru Substation	Oct-2011	Aug-2012
Protection relay system	66 kV Feeder protection : Current differential scheme (PCM) + Distance relay	1	set	Kamoike Substation	Oct-2011	Aug-2012
Protection relay system	66 kV Automatic switching panel for PD transfer	1	set	Higashihama Substation	Jun-2011	Mar-2012
Protection relay system	66 kV Automatic switching panel for PD transfer	1	set	Maematsubara Substation	Jun-2012	Apr-2013
Protection relay system	66 kV Automatic switching panel for PD transfer	1	set	Chiyo Substation	Nov-2011	Aug-2012
Protection relay system	66 kV Automatic switching panel for PD transfer	1	set	Aoto Substation	Feb-2012	Dec-2012
Protection relay system	66 kV Automatic switching panel for PD transfer	1	set	Yuge Substation	Sep-2011	Jun-2012
Protection relay system	66 kV Selective and Distance relay panel	1	set	Komenotsu Substation	Jul-2011	May-2012
Protection relay system	66 kV Selective and Distance relay panel	2	set	Higashi Oita Substation	Feb-2012	Jan-2013
Protection relay system	66 kV Selective and Distance relay panel	1	set	Higashi Ozu Substation	May-2012	Mar-2013
Protection relay system	66 kV Selective and Distance relay panel	1	set	Nagasaki Substation	Apr-2012	Feb-2013
Protection relay system	66 kV Selective and Distance relay panel	1	set	Tachiarai Substation	Aug-2011	Aug-2012
Protection relay system	66 kV Selective and Distance relay panel	2	set	Aoto Substation	Feb-2012	Dec-2012
Protection relay system	66 kV Selective and Distance relay panel	1	set	Shin Kagoshima Substation	Dec-2011	Oct-2012
Protection relay system	66 kV Selective and Distance relay panel	1	set	Shin Kagoshima Substation	Apr-2012	Feb-2013
Protection relay system	66 kV Selective and Distance relay panel	1	set	Shin Kagoshima Substation	Apr-2012	Feb-2013
Protection relay system	66 kV Selective and Distance relay panel	1	set	Kozai Substation	Oct-2011	Sep-2012

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Protection relay system	66 kV Selective and Distance relay panel	1	set	Kanoya Substation	Dec-2011	Oct-2012
Protection relay system	66 kV Selective and Distance relay panel	1	set	Murasakibaru Substation	Oct-2011	Aug-2012
Protection relay system	66 kV Selective and Distance relay panel	1	set	Egawa Substation	Apr-2012	Feb-2013
Protection relay system	66 kV Selective and Distance relay panel	1	set	Kumamoto Substation	May-2012	Mar-2013
Protection relay system	66 kV Selective and Distance relay panel	1	set	Amagi Substation	Aug-2011	Aug-2012
Protection relay system	66 kV Selective and Distance relay panel	1	set	Amagi Substation	Aug-2011	Aug-2012
Protection relay system	66 kV Selective and Distance relay panel	1	set	Umi Substation	Jan-2012	Oct-2012
Protection relay system	66kV Selective and Distance relay panel (Distance relays only)	1	set	Higashi Fukuoka Substation	Dec-2011	Apr-2013
Protection relay system	66kV Selective and Distance relay panel (Distance relays only)	1	set	Higashimachi Substation	Apr-2012	Mar-2013
Protection relay system	66kV Selective and Distance relay panel (Distance relays only)	1	set	Higashi Oita Substation	Feb-2012	Jan-2013
Protection relay system	66kV Selective and Distance relay panel (Distance relays only)	1	set	Maematsubara Substation	Dec-2011	Apr-2013
Protection relay system	66kV Selective and Distance relay panel (Distance relays only)	1	set	Minato Substation	Apr-2012	Mar-2013
Protection relay system	66kV Selective and Distance relay panel (Distance relays only)	1	set	Anse Substation	Aug-2011	Jun-2012
Protection relay system	66kV Selective and Distance relay panel (former type)	1	set	Minami Kumamoto Substation	May-2011	Mar-2012
Protection relay system	66 kV Auto-reclosing panel (type A)	1	set	Hirabaru Substation	Nov-2011	Oct-2012
Protection relay system	66 kV Auto-reclosing panel (type A)	1	set	Higashi Oita Substation	Feb-2012	Jan-2013
Protection relay system	66 kV Auto-reclosing panel (type A)	1	set	Higashi Ozu Substation	May-2012	Mar-2013
Protection relay system	66 kV Auto-reclosing panel (type A)	1	set	Osumi Substation	Sep-2011	Jul-2012
Protection relay system	66 kV Auto-reclosing panel (type A)	1	set	Sone Substation	Dec-2011	Oct-2012
Protection relay system	66 kV Auto-reclosing panel (type A)	1	set	Maematsubara Substation	Jun-2012	Apr-2013
Protection relay system	66 kV Auto-reclosing panel (type A)	1	set	Aoto Substation	Feb-2012	Dec-2012

Procurement Plan for Our Electric Power Facilities

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Description and Specifications		Quantity	Unit	Requesting Office/Station	Month of quotation	Month of delivery
Protection relay system	66 kV Auto-reclosing panel (type A)	1	set	Matsugae Substation	Dec-2011	Oct-2012
Protection relay system	66 kV Auto-reclosing panel (type A)	1	set	Kumamoto Substation	May-2012	Mar-2013
Protection relay system	66 kV Auto-reclosing panel (type A)	1	set	Yuge Substation	Sep-2011	Jun-2012
Protection relay system	66 kV Auto-reclosing panel (type A)	1	set	Umi Substation	Jan-2012	Oct-2012
Protection relay system	66 kV Auto-reclosing panel (type B)	1	set	Tenjin Substation	Jun-2011	Apr-2012
Protection relay system	66 kV Frequency relay panel	1	set	Isahaya Substation	Oct-2011	Aug-2012
Protection relay system	66 kV Frequency relay panel	1	set	Yamae Substation	Nov-2011	May-2012
Protection relay system	66 kV Busbar protection : two current differential schemes	1	set	Higashi Oita Substation	Feb-2012	Jan-2013
Protection relay system	66 kV Busbar protection : two current differential schemes	1	set	Chiyo Substation	Sep-2011	Aug-2012
Protection relay system	66 kV Busbar protection : two current differential schemes	1	set	Aoto Substation	Feb-2012	Dec-2012
Protection relay system	66 kV Busbar protection : two current differential schemes	1	set	Shin Kagoshima Substation	Apr-2012	Feb-2013
Protection relay system	66 kV Busbar protection : two current differential schemes	1	set	Kozai Substation	Oct-2011	Sep-2012
Protection relay system	66 kV Busbar protection : two current differential schemes	1	set	Yuge Substation	Sep-2011	Jun-2012
Protection relay system	66 kV Busbar protection : two current differential schemes	1	set	Anse Substation	Nov-2011	Sep-2012
Protection relay system	Transformer and Feeder protection panel for Distribution substations	2	set	Yabe Substation	Oct-2011	Aug-2012
Protection relay system	Transformer and Feeder protection panel for Distribution substations	1	set	Suehiro Substation	Jun-2011	May-2012
Protection relay system	Transformer and Feeder protection panel for Distribution substations	1	set	Hondo Substation	Jun-2011	Apr-2012
Protection relay system	Transformer and Feeder protection panel for Distribution substations	3	set	Hiyoshi Substation	Oct-2011	Aug-2012
Protection relay system	Transformer and Feeder protection panel for Distribution substations	1	set	Higashi Ozu Substation	May-2012	Mar-2013
Protection relay system	Transformer and Feeder protection panel for Distribution substations	1	set	Choujbaru Substation	May-2011	Mar-2012
Protection relay system	Transformer and Feeder protection panel for Distribution substations	2	set	Tadami Substation	Jun-2011	Jul-2012

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Protection relay system	Transformer and Feeder protection panel for Distribution substations	1	set	Ikeda Substation	Oct-2011	Aug-2012
Protection relay system	Transformer and Feeder protection panel for Distribution substations	1	set	Okuchi Substation	Apr-2012	Feb-2013
Protection relay system	Transformer and Feeder protection panel for Distribution substations	3	set	Taraki Substation	Jul-2011	Jul-2012
Protection relay system	Transformer and Feeder protection panel for Distribution substations	2	set	Zenza Substation	Sep-2011	Jul-2012
Protection relay system	Transformer and Feeder protection panel for Distribution substations	2	set	Chiyo Substation	Sep-2011	Aug-2012
Protection relay system	Transformer and Feeder protection panel for Distribution substations	1	set	Nishiyamaga Substation	Dec-2011	Oct-2012
Protection relay system	Transformer and Feeder protection panel for Distribution substations	1	set	Nishi Kyushu Substation	Sep-2011	Jul-2012
Protection relay system	Transformer and Feeder protection panel for Distribution substations	1	set	Minamata Substation	Nov-2011	Sep-2012
Protection relay system	Transformer and Feeder protection panel for Distribution substations	3	set	Kamishirouzu Substation	Dec-2011	Sep-2012
Protection relay system	Transformer and Feeder protection panel for Distribution substations	1	set	Kamioka Substation	Oct-2011	Sep-2012
Protection relay system	Transformer and Feeder protection panel for Distribution substations	2	set	Itoda Substation	Sep-2011	Jul-2012
Protection relay system	Transformer and Feeder protection panel for Distribution substations	1	set	Todoroki Substation	Sep-2011	Jul-2012
Protection relay system	Transformer and Feeder protection panel for Distribution substations	1	set	Kamoike Substation	Jul-2011	May-2012
Protection relay system	Transformer and Feeder protection panel for Distribution substations	1	set	Kamoike Substation	Dec-2011	Oct-2012
Protection relay system	Transformer and Feeder protection panel for Distribution substations	2	set	Umi Substation	May-2012	Mar-2013
Protection relay system	Transformer and Feeder protection panel for Distribution substations	1	set	Izaku Substation	Mar-2012	Jan-2013
Protection relay system	Transformer and Feeder protection panel for Distribution substations	2	set	Himuka Substation	Jun-2012	Aug-2013
Protection relay system	Earthing transformer protection panel	2	set	Isahaya Substation	Apr-2012	Feb-2013
Instrument transformers	220 kV PD with 50 VA for Feeder (Insulator; 275-M)	2	set	Koujaku Substation	May-2012	Jan-2013
Instrument transformers	66 kV PD with 50 VA for Feeder (Insulator; 110-M)	2	set	Anse Substation	Nov-2011	Jun-2012
Instrument transformers	66 kV PD with 50 VA for Feeder (Insulator; 66-M)	4	set	Aoto Substation	Mar-2012	Nov-2012

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Instrument transformers	66 kV PD with 50 VA for Feeder (Insulator; 66-M)	2	set	Higashi Ozu Substation	Jun-2012	Feb-2013
Instrument transformers	66 kV PD with 50 VA for Feeder (Insulator; 66-M)	6	set	Yuge Substation	Nov-2011	Jun-2012
Instrument transformers	66 kV PD with 200 VA for Busbar (Insulator; 66-H)	3	set	Nakatane Substation	May-2011	Dec-2011
Instrument transformers	66 kV PD with 200 VA for Busbar (Insulator; 66-H)	3	set	Shiroishi Substation	Sep-2011	Apr-2012
Instrument transformers	66 kV PD with 200 VA for Busbar (Insulator; 66-H)	3	set	Hyuga Substation	Nov-2011	May-2012
Instrument transformers	66 kV PD with 200 VA for Busbar (Insulator; 66-H)	3	set	Ozuru Substation	Sep-2011	Apr-2012
Instrument transformers	66 kV PD with 200 VA for Busbar (Insulator; 66-H)	6	set	Aoto Substation	Mar-2012	Nov-2012
Instrument transformers	66 kV PD with 200 VA for Busbar (Insulator; 66-H)	3	set	Yamakawa Substation	Apr-2012	Nov-2012
Instrument transformers	66 kV PD with 200 VA for Busbar (Insulator; 66-H)	3	set	Todoroki Substation	Sep-2011	Apr-2012
Instrument transformers	66 kV PD with 200 VA for Busbar (Insulator; 66-H)	3	set	Iwaya Substation	Oct-2011	May-2012
Instrument transformers	66 kV PD with 200 VA for Busbar (Insulator; 66-H)	3	set	Shiota Substation	Sep-2011	Apr-2012
Instrument transformers	66 kV PD with 200 VA for Busbar (Insulator; 66-H)	3	set	Ashiya Substation	Mar-2012	Oct-2012
Instrument transformers	66 kV PD with 200 VA for Busbar (Insulator; 66-M)	3	set	Higashi Ozu Substation	Jun-2012	Feb-2013
Instrument transformers	66 kV PD with 200 VA for Busbar (Insulator; 66-M)	3	set	Maebaru Substation	Sep-2011	May-2012
Instrument transformers	66 kV PD with 200 VA for Busbar (Insulator; 66-M)	6	set	Yuge Substation	Nov-2011	Jun-2012
Instrument transformers	66 kV PD with 500 VA for Busbar (Insulator; 77-H)	3	set	Minami Fukuoka Substation	May-2011	Jan-2012
Transformers	66/22/6 kV, 20/15/15 MVA Distribution transformer (Radiator mounted, Noise level: below 50 dB, Insulator; 66-L	1	set	Yabe Substation	Nov-2011	Sep-2012
Transformers	66/22 kV, 20 MVA Distribution transformer (Radiator mounted, Noise level: below 50 dB, Insulator; 66-M	1	set	Tadami Substation	Jun-2011	Oct-2012
Transformers	66/22 kV, 30 MVA Distribution transformer (Radiator mounted, Noise level: below 55 dB, Insulator; 66-M	1	set	Higashi Ozu Substation	Apr-2012	Mar-2013
Transformers	66/22 kV, 30 MVA Distribution transformer (Separate radiators at the top, Noise level to be in accordance with JEM)	2	set	Chiyo Substation	Sep-2011	Aug-2012
Transformers	66/6 kV, 10 MVA Distribution transformer (Radiator mounted, Noise level: below 50 dB, Insulator; 66-H	1	set	Shiki Substation	Oct-2011	Aug-2012

Procurement Plan for Our Electric Power Facilities

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Transformers	66/6 kV, 10 MVA Distribution transformer (Radiator mounted, Noise level: below 50 dB, Insulator; 66-M	1	set	Makizono Substation	Jun-2011	Apr-2012
Transformers	66/6 kV, 10 MVA Distribution transformer (Radiator mounted, Noise level: below 55 dB, Insulator; 66-H	1	set	Tsurukawa Substation	Jun-2011	May-2012
Transformers	66/6 kV, 10 MVA Distribution transformer (Radiator mounted, Noise level: below 55 dB, Insulator; 66-M	1	set	Ebino Substation	Dec-2011	Oct-2012
Transformers	66/6 kV, 10 MVA Distribution transformer (mounted on mobile Tracks, Noise level: below 55 dB, Insulator; 66-H	1	set	Kagoshima Power System Maintenance Office	May-2011	Apr-2012
Transformers	66/6 kV, 15 MVA Distribution transformer (Radiator mounted, Noise level: below 55 dB, Insulator; 66-H	1	set	Usuki Substation	Jun-2011	May-2012
Transformers	66/6 kV, 20 MVA Distribution transformer (Radiator mounted, Noise level: below 45 dB, Insulator; 66-M	1	set	Yokokawa Substation	Jan-2012	Nov-2012
Transformers	66/6 kV, 20 MVA Distribution transformer (Radiator mounted, Noise level: below 50 dB, Insulator; 66-H	1	set	Komenotsu Substation	Dec-2011	Nov-2012
Transformers	66/6 kV, 20 MVA Distribution transformer (Radiator mounted, Noise level: below 50 dB, Insulator; 66-H	1	set	Zenza Substation	Jun-2011	Apr-2012
Transformers	66/6 kV, 20 MVA Distribution transformer (Radiator mounted, Noise level: below 50 dB, Insulator; 66-M	1	set	Koga Substation	Nov-2011	Sep-2012
Transformers	66/6 kV, 20 MVA Distribution transformer (Radiator mounted, Noise level: below 50 dB, Insulator; 66-M	1	set	Miyata Substation	Feb-2012	Dec-2012
Transformers	66/6 kV, 20 MVA Distribution transformer (Radiator mounted, Noise level: below 55 dB, Insulator; 66-H	1	set	Tokusue Substation	Dec-2011	Oct-2012
Transformers	66/6 kV, 20 MVA Distribution transformer with neutral (Radiator mounted, Noise level: below 55 dB, Insulator; 66-H)	1	set	Koujaku Substation	Jul-2011	May-2012
Transformers	66/6 kV, 20 MVA Distribution transformer (Radiator mounted, Noise level: below 55 dB, Insulator; 66-M	1	set	Sedaka Substaion	Jun-2011	May-2012
Transformers	66/6 kV, 10 MVA Distribution transformer (Radiator mounted, Noise level to be in accordance with JEM standard, Insulator; 66-M)	1	set	Kumano Substation	Dec-2011	Oct-2012
Transformers	66/22 kV, 30 MVA Distribution transformer (Separate radiators, Noise level to be in accordance with JEM standard, Insulator; 66-M & 11-M)	1	set	Shibushi Substation	Nov-2011	Sep-2012
Transformers	66/6 kV, 20 MVA Distribution transformer (Separate radiators, Noise level to be in accordance with JEM standard, elephant-shaped connection box)	1	set	Tokuriki Substaion	Dec-2011	Oct-2012
Transformers	66/6 kV, Earthing transformer with Zero phase sequence capacity 1818 kVA and positive phase sequence capacity 3000 kVA (Noise level : below 55 dB)	1	set	Himuka Substation	Jun-2012	Aug-2013
Transformers	66/6 kV, Earthing transformer with Zero phase sequence capacity 7620 kVA and positive phase sequence capacity 300 kVA (Noise level : below 55 dB)	1	set	Yuge Substation	Oct-2011	Jul-2012
Transformers	66/6 kV, Earthing transformer with Zero phase sequence capacity 7620 kVA and positive phase sequence capacity 500 kVA (Noise level : below 55 dB)	1	set	Higashi Oita Substation	Jan-2012	Dec-2012
Shunt reactors	60 kV, 50 Mvar Shunt reactor (Noise level : below 55 db)	1	set	Himuka Substation	Jun-2012	Aug-2013
Lightning arresters	140 kV (0.03 mg/cm2)	2	set	Okuchi Substation	Jun-2012	Mar-2013

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(Category: Equipment and Materials for Substations)

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Lightning arresters	140 kV (0.06 mg/cm ²)	1	set	Nogata Substation	May-2011	Nov-2011
Lightning arresters	140 kV (0.12 mg/cm ²)	1	set	Osumi Substation	May-2011	Nov-2011
Lightning arresters	210 kV (0.12 mg/cm ²)	1	set	Koujaku Substation	Jun-2012	Jan-2013
Lightning arresters	28 kV (0.03 mg/cm ²)	1	set	Tadami Substation	Jun-2011	Oct-2012
Lightning arresters	84 kV (0.03 mg/cm ²)	1	set	Tadami Substation	Jun-2011	Oct-2012
Lightning arresters	84 kV (0.06 mg/cm ²)	6	set	Yuge Substation	Mar-2012	Jun-2012
Lightning arresters	84 kV (0.12 mg/cm ²)	2	set	Aoto Substation	Jun-2012	Apr-2013
Switch panels	220 kV Load regulating panel	1	panel	Isahaya Substation	Sep-2011	Jul-2012
Switch panels	66 kV Load regulating panel (1 bank, future space for 2 banks)	1	panel	Namazuta Substation	May-2011	Nov-2011
Switch panels	66 kV Load regulating panel (1 bank, future space for 2 banks)	1	panel	Yabe Substation	Oct-2011	Aug-2012
Switch panels	66 kV Load regulating panel (1 bank, future space for 2 banks)	1	panel	Tokuriki Substation	Jan-2012	Oct-2012
Switch panels	66 kV Load regulating panel (1 bank, future space for 2 banks)	1	panel	Tokusue Substation	Dec-2011	Oct-2012
Switch panels	66 kV Load regulating panel (1 bank, future space for 2 banks)	1	panel	Higashi Ozu Substation	Apr-2012	Mar-2013
Switch panels	66 kV Load regulating panel (1 bank, future space for 2 banks)	1	panel	Tadami Substation	Jun-2011	Oct-2012
Switch panels	66 kV Load regulating panel (1 bank, future space for 2 banks)	1	panel	Okuchi Substation	Jun-2012	Mar-2013
Switch panels	66 kV Load regulating panel (1 bank, future space for 2 banks)	1	panel	Kamitonno Substation	May-2011	Nov-2011
Switch panels	66 kV Load regulating panel (1 bank, future space for 2 banks)	1	panel	Shibushi Substation	Nov-2011	Sep-2012
Switch panels	66 kV Load regulating panel (1 bank, future space for 2 banks)	1	panel	Koga Substation	Nov-2011	Aug-2012
Switch panels	66 kV Load regulating panel (1 bank, future space for 2 banks)	1	panel	Kumano Substation	Jan-2012	Oct-2012
Switch panels	66 kV Load regulating panel (1 bank extension)	1	panel	Makizono Substation	Jul-2011	May-2012
Switch panels	66 kV Load regulating panel (1 bank extension)	1	panel	Yokokawa Substation	Feb-2012	Nov-2012

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Description and Specifications		Quantity	Unit	Requesting Office/Station	Month of quotation	Month of delivery
Switch panels	66 kV Load regulating panel (2 banks, future space for 1 bank)	1	panel	Ikeda Substation	Oct-2011	Aug-2012
Switch panels	66 kV Load regulating panel (2 banks, future space for 1 bank)	1	panel	Zenza Substation	Jul-2011	Apr-2012
Switch panels	66 kV Load regulating panel (2 banks, future space for 1 bank)	1	panel	Chiyo Substation	Sep-2011	Aug-2012
Switch panels	66 kV Load regulating panel (2 banks, future space for 1 bank)	1	panel	Nishiharu Substation	Jul-2011	Apr-2012
Switch panels	66 kV Load regulating panel (2 banks, future space for 1 bank)	1	panel	Koujaku Substation	Jul-2011	Mar-2012
Switch panels	66 kV Load regulating panel (2 banks, future space for 1 bank)	1	panel	Kushira Substation	Jul-2011	Apr-2012
Switch panels	66 kV Load regulating panel (2 banks, future space for 1 bank)	1	panel	Itchouda Substation	Dec-2011	Sep-2012
Switch panels	66 kV Load regulating panel (3 banks)	1	panel	Sedaka Substaion	Apr-2012	Nov-2012
Switch panels	66 kV Load regulating panel (3 banks)	1	panel	Katakasu Substation	Aug-2011	May-2012
Switch panels	66 kV Load regulating panel (3 banks)	1	panel	Nobeoka Substation	May-2011	Jan-2012
Switch panels	66 kV Static condenser control panel	1	panel	Aoto Substation	Feb-2012	Dec-2012
Switch panels	66 kV Static condenser control panel (2 banks)	1	panel	Oe Substation	Apr-2012	Feb-2013
Switch panels	AC distribution panel	2	panel	Higashi Oita Substation	Feb-2012	Jan-2013
Switch panels	AC distribution panel	1	panel	Amagi Substation	Apr-2012	Oct-2012
Switch panels	AC distribution panel	1	panel	Anse Substation	Nov-2011	May-2012
Switch panels	AC Ditribution panel (type B)	1	panel	Higashihama Substation	Jun-2011	Mar-2012
Switch panels	AC Ditribution panel (type B)	1	panel	Tadami Substation	Jun-2011	Jul-2012
Switch panels	AC Ditribution panel (type B)	1	panel	Yuge Substation	Nov-2011	Jun-2012
Switch panels	AC Ditribution panel (type C)	2	panel	Yuge Substation	Nov-2011	Jun-2012
Switch panels	AC Ditribution panel (type D)	2	panel	Yuge Substation	Nov-2011	Jun-2012
Switch panels	AC Ditribution panel, DC Ditribution panel	2	panel	Munakata Substation	May-2012	Oct-2012

Procurement Plan for Our Electric Power Facilities

(Category: Equipment and Materials for Substations)

(Conditions below are subject to change.)

Description and Specifications		Quantity	Unit	Requesting Office/Station	Month of quotation	Month of delivery
Switch panels	DC distribution panel	3	panel	Higashi Oita Substation	Feb-2012	Jan-2013
Switch panels	DC distribution panel	1	panel	Amagi Substation	Apr-2012	Oct-2012
Switch panels	DC distribution panel	1	panel	Anse Substation	Nov-2011	May-2012
Switch panels	DC Distribution panel (type A)	1	panel	Higashihama Substation	Jun-2011	Mar-2012
Switch panels	DC Distribution panel (type A)	1	panel	Tadami Substation	Jun-2011	Jul-2012
Switch panels	DC Distribution panel (type A)	1	panel	Yuge Substation	Nov-2011	Jun-2012
Switch panels	DC Distribution panel (type A), AC Distribution panel (type B)	17	panel	Himuka Substation	Jun-2012	Apr-2013
Switch panels	NGR protection panel	1	set	Himuka Substation	Jun-2012	Aug-2013
Switch panels	Interlock relay panel	1	panel	Higashihama Substation	Jun-2011	Mar-2012
Switch panels	Interlock relay panel	1	panel	Chiyo Substation	Nov-2011	Aug-2012
Switch panels	Interlock relay panel	1	panel	Aoto Substation	Feb-2012	Dec-2012
Switch panels	Interlock relay panel	3	panel	Yuge Substation	Nov-2011	Jun-2012
Switch panels	220 kV Interlock relay panel	2	panel	Himuka Substation	Jun-2012	Apr-2013
Switch panels	500 kV Interlock relay panel	1	panel	Himuka Substation	Jun-2012	Apr-2013
Switch panels	Pump control panel for Insulator washing system	1	panel	Higashi Oita Substation	Feb-2012	Jan-2013
Switch panels	Power supply switching panel	1	panel	Kamoike Substation	Apr-2012	Dec-2012
Switch panels	Power supply switching panel	2	panel	Higashi Oita Substation	Feb-2012	Jan-2013
Switch panels	Power supply switching panel	1	panel	Aoto Substation	May-2012	Dec-2012
Enclosed switchgears	22 kV, 1200 A, 25 kA punched-metal enclosed panel for Incoming	3	set	Kamioka Substation	Jun-2011	Feb-2012
Enclosed switchgears	22 kV, 1200 A, 25 kA punched-metal enclosed panel for Bus tie	2	set	Kamioka Substation	Jun-2011	Feb-2012
Enclosed switchgears	22 kV, 1200 A, 25 kA punched-metal enclosed panel (type A) for Incoming (with LA)	2	set	Namazuta Substation	Jul-2011	Jan-2012

Procurement Plan for Our Electric Power Facilities

(Category: Equipment and Materials for Substations)

(Conditions below are subject to change.)

Description and Specifications		Quantity	Unit	Requesting Office/Station	Month of quotation	Month of delivery
Enclosed switchgears	22 kV, 1200 A, 25 kA punched-metal enclosed panel (type A) for Bus tie	1	set	Namazuta Substation	Jul-2011	Jan-2012
Enclosed switchgears	22 kV, 600 A, 25 kA punched-metal enclosed panel for Feeder	4	set	Kamioka Substation	Jun-2011	Feb-2012
Enclosed switchgears	22 kV, 600 A, 25 kA punched-metal enclosed panel (type A) for Feeder	2	set	Namazuta Substation	Jul-2011	Jan-2012
Enclosed switchgears	22 kV punched-metal enclosed panel (type A) for Auxiliaries	2	set	Namazuta Substation	Jul-2011	Jan-2012
Enclosed switchgears	24 kV, 1200 A, 16 kA punched-metal enclosed panel (type A1) for Incoming	1	set	Tadami Substation	Jun-2011	Nov-2012
Enclosed switchgears	24 kV, 1200 A, 25 kA punched-metal enclosed panel for Incoming	1	set	Aoto Substation	May-2012	Dec-2012
Enclosed switchgears	24 kV, 1200 A, 25 kA punched-metal enclosed panel for 50 kVA House transformer	1	set	Aoto Substation	May-2012	Dec-2012
Enclosed switchgears	24 kV, 1200 A, 25 kA punched-metal enclosed panel for Auxiliaries with GPT & L/	1	set	Aoto Substation	May-2012	Dec-2012
Enclosed switchgears	24 kV, 1200 A, 25 kA metal-clad switchgear for Feeder	1	set	Yabe Substation	Jan-2012	Sep-2012
Enclosed switchgears	24 kV, 1200 A, 25 kA metal-clad switchgear for Incoming	1	set	Yabe Substation	Jan-2012	Sep-2012
Enclosed switchgears	24 kV, 600 A, 16 kA punched-metal enclosed panel (type A1) for Feeder	1	set	Tadami Substation	Jun-2011	Nov-2012
Enclosed switchgears	24 kV, 600 A, 16 kA punched-metal enclosed panel (type A1) for Bus tie	1	set	Tadami Substation	Jun-2011	Nov-2012
Enclosed switchgears	24 kV, 600 A, 25 kA punched-metal enclosed panel for Feeder	2	set	Aoto Substation	May-2012	Dec-2012
Enclosed switchgears	24 kV, 600 A, 25 kA punched-metal enclosed panel (type A1) for Feeder	1	set	Choujaboru Substation	Aug-2011	Apr-2012
Enclosed switchgears	24 kV metal-clad switchgear for Auxiliaries (GPT & LA)	1	set	Yabe Substation	Jan-2012	Sep-2012
Enclosed switchgears	24 kV punched-metal enclosed panel (type A1) for GPT and LA	1	set	Choujaboru Substation	Aug-2011	Apr-2012
Enclosed switchgears	24 kV punched-metal enclosed panel (type A1) for GPT and LA	1	set	Tadami Substation	Jun-2011	Nov-2012
Enclosed switchgears	24 kV punched-metal enclosed panel (type A1) without main CB	1	set	Choujaboru Substation	Aug-2011	Apr-2012
Enclosed switchgears	7.2 kV, 1200A, 12.5kA punched-metal enclosed panel (type A1) for Feeders	6	set	Kamoike Substation	Dec-2011	Jun-2012
Enclosed switchgears	7.2 kV, 1200A, 12.5kA punched-metal enclosed panel (type A1) for Feeders	5	set	Kamoike Substation	Jun-2012	Dec-2012
Enclosed switchgears	7.2 kV, 1200 A, 12.5 kA punched-metal enclosed panel (type B) for Feeder without auxiliary busba	2	set	Kitano Substation	Apr-2012	Oct-2012

Procurement Plan for Our Electric Power Facilities

(Category: Equipment and Materials for Substations)

(Conditions below are subject to change.)

Description and Specifications		Quantity	Unit	Requesting Office/Station	Month of quotation	Month of delivery
Enclosed switchgears	7.2 kV, 1200 A, 12.5 kA punched-metal enclosed panel (type B) for Feeder	1	set	Shibushi Substation	Apr-2012	Oct-2012
Enclosed switchgears	7.2 kV, 1200 A, 12.5 kA punched-metal enclosed panel (type C) for Feeder	1	set	Shingu Substation	Jun-2011	Dec-2011
Enclosed switchgears	7.2 kV, 1200 A, 12.5 kA punched-metal enclosed panel (type D) for Feeder (CB x 1)	2	set	Ikeda Substation	Mar-2012	Oct-2012
Enclosed switchgears	7.2 kV, 1200 A, 12.5 kA punched-metal enclosed panel (type D) for Feeder (CB x 2)	4	set	Ikeda Substation	Mar-2012	Oct-2012
Enclosed switchgears	7.2 kV, 1200 A, 12.5 kA punched-metal enclosed panel (type D) for Feeder (CB x 2)	3	set	Hondo Substation	Oct-2011	Apr-2012
Enclosed switchgears	7.2 kV, 1200 A, 20 kA punched-metal enclosed panel (type A) for Feeder	9	set	Zenza Substation	Apr-2012	Nov-2012
Enclosed switchgears	7.2 kV, 1200 A, 20 kA punched-metal enclosed panel (type A1) for Feeders	4	set	Doukai Substation	May-2011	Nov-2011
Enclosed switchgears	7.2 kV, 1200 A, 20 kA punched-metal enclosed panel (type A1) for Feeders	3	set	Okuchi Substation	Jun-2012	Mar-2013
Enclosed switchgears	7.2 kV, 1200 A, 20 kA punched-metal enclosed panel (type E) for Incoming with PT and LA	2	set	Himuka Substation	Jun-2012	Jun-2013
Enclosed switchgears	7.2 kV, 1200 A, 20 kA punched-metal enclosed panel (type E) for Bus tie	1	set	Himuka Substation	Jun-2012	Jun-2013
Enclosed switchgears	7.2 kV, 2000 A, 12.5 kA punched-metal enclosed panel (type A) for Bus tie	1	set	Yabe Substation	Mar-2012	Oct-2012
Enclosed switchgears	7.2 kV, 2000 A, 12.5 kA punched-metal enclosed panel (type B) for Incoming without auxiliary busbar	1	set	Kitano Substation	Apr-2012	Oct-2012
Enclosed switchgears	7.2 kV, 2000 A, 12.5 kA punched-metal enclosed panel (type B) for Bus tie and 30 kVA House transformer without auxiliary busbar	1	set	Kitano Substation	Apr-2012	Oct-2012
Enclosed switchgears	7.2 kV, 2000 A, 12.5 kA punched-metal enclosed panel (type D) for Bus tie and House transformer (Existing transformer is to be used)	1	set	Ikeda Substation	Mar-2012	Oct-2012
Enclosed switchgears	7.2 kV, 2000 A, 20 kA punched-metal enclosed panel (type A) for Incoming	1	set	Zenza Substation	Apr-2012	Nov-2012
Enclosed switchgears	7.2 kV, 2000 A, 20 kA punched-metal enclosed panel (type A) for Bus tie	1	set	Zenza Substation	Apr-2012	Nov-2012
Enclosed switchgears	7.2 kV, 2000 A, 20 kA punched-metal enclosed panel (type A1) for Incoming	1	set	Doukai Substation	May-2011	Nov-2011
Enclosed switchgears	7.2 kV, 2000 A, 20 kA punched-metal enclosed panel (type A1) for Incoming	1	set	Okuchi Substation	Jun-2012	Mar-2013
Enclosed switchgears	7.2 kV, 2000 A, 20 kA punched-metal enclosed panel (type A1) for Auxiliaries with GPT & LA	1	set	Okuchi Substation	Jun-2012	Mar-2013
Enclosed switchgears	7.2 kV, 2000 A, 20 kA punched-metal enclosed panel (type A1) for Bus tie	1	set	Okuchi Substation	Jun-2012	Mar-2013
Enclosed switchgears	7.2 kV, 2000 A, 20 kA punched-metal enclosed panel (type B) for Incoming with LA	1	set	Shibushi Substation	Nov-2011	Sep-2012

Procurement Plan for Our Electric Power Facilities

(Category: Equipment and Materials for Substations)

(Conditions below are subject to change.)

Description and Specifications		Quantity	Unit	Requesting Office/Station	Month of quotation	Month of delivery
Enclosed switchgears	7.2 kV, 20 kA punched-metal enclosed panel (type E) for Short-circuited purpose	2	set	Himuka Substation	Jun-2012	Jun-2013
Enclosed switchgears	7.2 kV, 3000 A, 12.5 kA punched-metal enclosed panel (type D) for Auxiliaries	1	set	Meizan Substation	Jun-2011	Dec-2011
Enclosed switchgears	7.2 kV, 3000 A, 20 kA punched-metal enclosed panel (type D) for Incoming	1	set	Hondo Substation	Oct-2011	Apr-2012
Enclosed switchgears	7.2 kV, 3000 A, 20 kA punched-metal enclosed panel (type D) for Bus tie	1	set	Hondo Substation	Oct-2011	Apr-2012
Enclosed switchgears	7.2 kV, 3000 A, 20 kA punched-metal enclosed panel (type A) for Incoming	1	set	Zenza Substation	Apr-2012	Nov-2012
Enclosed switchgears	7.2 kV, 3000 A, 20 kA punched-metal enclosed panel (type A1) for Incoming	1	set	Kamoike Substation	Dec-2011	Jun-2012
Enclosed switchgears	7.2 kV, 3000 A, 20 kA punched-metal enclosed panel (type A1) for Incoming	1	set	Kamoike Substation	Jun-2012	Dec-2012
Enclosed switchgears	7.2 kV, 3000 A, 20 kA punched-metal enclosed panel (type A1) for Bus tie	1	set	Kamoike Substation	Jun-2012	Dec-2012
Enclosed switchgears	7.2 kV, 3000 A, 31.5 kA punched-metal enclosed panel (type D) for Incoming	2	set	Ikeda Substation	Mar-2012	Oct-2012
Enclosed switchgears	7.2 kV, 600 A, 12.5 kA punched-metal enclosed panel (type A) for Feeder	3	set	Yabe Substation	Mar-2012	Oct-2012
Enclosed switchgears	7.2 kV, 600 A, 12.5 kA punched-metal enclosed panel (type B) for Incoming	2	set	Higashi Oita Substation	May-2012	Dec-2012
Enclosed switchgears	7.2 kV, 600 A, 20 kA punched-metal enclosed panel (type A1) for Feeder	1	set	Okuchi Substation	Jun-2012	Mar-2013
Enclosed switchgears	7.2 kV, 600 A, 20 kA punched-metal enclosed panel (type E) for Feeder	2	set	Himuka Substation	Jun-2012	Jun-2013
Enclosed switchgears	7.2 kV, 600 A, 20 kA punched-metal enclosed panel (type E) for Feeder with dummy CB	2	set	Himuka Substation	Jun-2012	Jun-2013
Enclosed switchgears	7.2 kV punched-metal enclosed panel (type A) for GPT & LA	2	set	Zenza Substation	Apr-2012	Nov-2012
Enclosed switchgears	7.2 kV punched-metal enclosed panel (type A) for Feeder without CB	1	set	Yabe Substation	Mar-2012	Oct-2012
Enclosed switchgears	7.2 kV punched-metal enclosed panel (type A) for 30 kVA House transformer	1	set	Yabe Substation	Mar-2012	Oct-2012
Enclosed switchgears	7.2 kV punched-metal enclosed panel (type A) for 30 kVA House transformer	1	set	Zenza Substation	Apr-2012	Nov-2012
Enclosed switchgears	7.2 kV punched-metal enclosed panel (type A1) for GPT & LA	1	set	Kamoike Substation	Dec-2011	Jun-2012
Enclosed switchgears	7.2 kV punched-metal enclosed panel (type A1) for GPT & LA	1	set	Kamoike Substation	Jun-2012	Dec-2012
Enclosed switchgears	7.2 kV punched-metal enclosed panel (type A1) for 30 kVA House transformer	1	set	Doukai Substation	May-2011	Nov-2011

Procurement Plan for Our Electric Power Facilities

(Category: Equipment and Materials for Substations)

(Conditions below are subject to change.)

Description and Specifications		Quantity	Unit	Requesting Office/Station	Month of quotation	Month of delivery
Enclosed switchgears	7.2 kV punched-metal enclosed panel (type A1) for 30 kVA House transformer	1	set	Kamoike Substation	Dec-2011	Jun-2012
Enclosed switchgears	7.2 kV punched-metal enclosed panel (type A1) for 30 kVA House transformer	1	set	Kamoike Substation	Jun-2012	Dec-2012
Enclosed switchgears	7.2 kV punched-metal enclosed panel (type B) for 200 kVA House transformer	2	set	Higashi Oita Substation	May-2012	Dec-2012
Enclosed switchgears	7.2 kV punched-metal enclosed panel (type B) for 300 kVA House transformer	2	set	Higashi Oita Substation	May-2012	Dec-2012
Enclosed switchgears	7.2 kV punched-metal enclosed panel (type D) for 30 kVA House transformer	1	set	Ikeda Substation	Mar-2012	Oct-2012
Enclosed switchgears	7.2 kV punched-metal enclosed panel (type D) for Auxiliaries	2	set	Ikeda Substation	Mar-2012	Oct-2012
Enclosed switchgears	7.2 kV punched-metal enclosed panel (type E) for 250 kVA House transformer	4	set	Himuka Substation	Jun-2012	Jun-2013
Enclosed switchgears	7.2 kV, 2000 A, 12.5 kA punched-metal enclosed panel (type B) for Incoming	1	set	Tokusue Substation	Mar-2012	Oct-2012
Enclosed switchgears	24 kV, 1200 A, 25 kA CB for 24 kV punched-metal enclosed panel	2	set	Aoto Substation	May-2012	Dec-2012
Enclosed switchgears	24 kV, 600 A, 25 kA CB for 24 kV metal-clad switchgear	2	set	Kouyamagawa Hydro Power Station	May-2011	Nov-2011
Enclosed switchgears	7.2 kV, 1200 A, 12.5 kA CB for 7.2 kV punched-metal enclosed panel (type B)	1	set	Izaku Substation	Jun-2011	Oct-2011
Enclosed switchgears	7.2 kV, 1200 A, 12.5 kA CB for 7.2 kV punched-metal enclosed panel (type B)	2	set	Izaku Substation	Jun-2011	Oct-2011
Enclosed switchgears	7.2 kV, 2000 A, 12.5 kA CB for 7.2 kV punched-metal enclosed panel (type B)	1	set	Izaku Substation	Jun-2011	Oct-2011
Enclosed switchgears	7.2 kV, 600 A, 12.5 kA CB for 7.2 kV punched-metal enclosed panel (type B)	1	set	Izaku Substation	Jun-2011	Oct-2011
Enclosed switchgears	7.2 kV, 30 kVA House transformer for 7.2 kV metal enclosed panel	1	set	Iizuka Substation	Nov-2011	May-2012
Substation servers	CDT network; Server frame x 1, I/O frame x 1, with Distribution system interface	1	set	Higashi Ozu Substation	Jun-2012	Apr-2013
Substation servers	CDT network; Server frame x 1	1	set	Akama Substation	Jul-2011	Apr-2012
Substation servers	CDT network; Server frame x 1, I/O frame x 1, without Distribution system interface	1	set	Momochi Substation	Oct-2011	Apr-2012
Substation servers	CDT network; Server frame x 1, I/O frame x 3, Distribution system interface (1 pair face-to-face for CDT)	1	set	Kozai Substation	Nov-2011	Jul-2012
Substation servers	CDT network; Server frame x 1 (Communication interface for CDT, Distribution system interface including I/O frames	1	set	Higashisonogi Substation	Apr-2012	Feb-2013
Substation servers	CDT network; Server frame x 1, I/O frame x 1, Intermediate process frame x 1, Distribution system interface x 1	1	set	Soeda Substation	Oct-2011	Aug-2012

Procurement Plan for Our Electric Power Facilities

(Category: Equipment and Materials for Substations)

(Conditions below are subject to change.)

Description and Specifications		Quantity	Unit	Requesting Office/Station	Month of quotation	Month of delivery
Substation servers	CDT network; Server frame x 1, I/O frame x 1, Intermediate process frame x 1, Distribution system interface x 1	1	set	Itoda Substation	Mar-2012	Jan-2013
Substation servers	CDT network; Server frame x 1, I/O frame x 2, Distribution system interface x 1	1	set	Itchouda Substation	Jan-2012	Sep-2012
Substation servers	CDT network; Server frame x 1, I/O frame x 3, with Distribution system interface	1	set	Yamaga Substation	Dec-2011	Aug-2012
Substation servers	CDT network; Server frame x 1 without Distribution system interface	1	set	Nanukigawa Hydro Power Station	Feb-2012	Dec-2012
Substation servers	CDT network; Server frame x 2, I/O frame x 10, with Distribution system interface	1	set	Hitoyoshi Substation	Oct-2011	Jun-2012
Substation servers	CDT network; Server frame x 2, I/O frame x 8	1	set	Tenzan Pumped Storage Power Station	Jun-2011	Jan-2012
Substation servers	IP network; Server frame x 1, I/O frame x 2, with Distribution system interface	1	set	Kitano Substation	Dec-2011	Nov-2012
Substation servers	IP network; Server frame x 1, I/O frame x 2, with Distribution system interface	1	set	Higashimachi Substation	Jul-2011	Apr-2012
Substation servers	IP network; Server frame x 1, I/O frame x 3, with Distribution system interface	1	set	Shirakibaru Substation	Oct-2011	Sep-2012
Substation servers	IP network; Server frame x 1, I/O frame x 3, with Distribution system interface	1	set	Nishiharu Substation	Apr-2012	Mar-2013
Substation servers	IP network; Server frame x 1, I/O frame x 4, with Distribution system interface	1	set	Kyoumachi Substation	Apr-2012	Mar-2013
Substation servers	IP network; Server frame x 1, I/O frame x 8, Interface frames for existing Integrated Control Center x 2, Customer service office x 2	1	set	Yuge Substation	Jul-2011	Jul-2012
Substation servers	IP network; Server frame x 1 (with Communication frames and Distribution system interface) and I/O frame x 2	1	set	Nigiwaibashi Substation	Jul-2011	May-2012
Substation servers	IP network; Server frame x 1, I/O frame x 2	1	set	Kami Sendai Substation	Apr-2012	Apr-2013
Substation servers	IP network; Server frame x 1, I/O frame x 2	1	set	Kushira Substation	Apr-2012	Apr-2013
Substation servers	IP network; Server frame x 1, I/O frame x 2	1	set	Nagata Substation	Oct-2011	Oct-2012
Substation servers	IP network; Server frame x 1, I/O frame x 2	1	set	Kawakamigawa No. 2 Hydro Power Station	May-2012	Feb-2013
Substation servers	IP network; Server frame x 1, I/O frame x 2 with Distribution system interface	1	set	Chiyo Substation	Sep-2011	Aug-2012
Substation servers	IP network; Server frame x 1, I/O frame x 3	1	set	Tenmonkan Substation	Dec-2011	Dec-2012
Substation servers	IP network; Server frame x 1, I/O frame x 4	1	set	Higashi Oita Substation	Feb-2012	Jan-2013
Substation servers	IP network; Server frame x 1, I/O frame x 4	1	set	Aoto Substation	Dec-2011	Dec-2012

Procurement Plan for Our Electric Power Facilities

(Category: Equipment and Materials for Substations)

(Conditions below are subject to change.)

Description and Specifications		Quantity	Unit	Requesting Office/Station	Month of quotation	Month of delivery
Substation servers	IP network; Server frame x 1, I/O frame x 4 with Distribution system interface	1	set	Saga Substation	May-2012	Feb-2013
Substation servers	IP network; Server frame x 2, I/O frame x 12 with Distribution system interface	1	set	Takeo Substation	May-2011	Jun-2012
Resistors	36.4 kV, 50 A, 727 ohms	1	set	Himuka Substation	Jun-2012	Aug-2013
Resistors	38.1 kV, 200 A, 191 ohms	1	set	Higashi Oita Substation	Apr-2012	Dec-2012
Resistors	38.1 kV, 200 A, 191 ohms	2	set	Yuge Substation	Dec-2011	Jul-2012
Disconnecting switches	120 kV, 800 A, 20 kA (Horizontal type, double breaks, Insulator; SP-850A and 650B)	1	set	Okuchi Substation	May-2012	Feb-2013
Disconnecting switches	120 kV, 800 A, 20 kA (Horizontal type, double breaks, Insulator; SP-850A and 850B)	1	set	Okuchi Substation	May-2012	Feb-2013
Disconnecting switches	240 kV, 2000 A, 40 kA (Horizontal type, single break, Insulator; SP-1150A and 950B (downward type)	1	set	Kisaki Substation	Jun-2011	May-2012
Disconnecting switches	240 kV, 3000 A, 50 kA (Horizontal type, single break, Insulator; SP-1150B & C, long creepage type)	5	set	Koujaku Substation	May-2012	Jan-2013
Disconnecting switches	240 kV, 3000 A, 50 kA with Earthing switch (ES) (Horizontal type, single break, Insulator; SP-1150B & C, long creepage type)	2	set	Koujaku Substation	May-2012	Jan-2013
Disconnecting switches	ES; 66 kV, 25 kA, for Busbar (Manual operated, vertical type, single break)	2	set	Yuge Substation	Dec-2011	Jun-2012
Disconnecting switches	72 kV, 1200 A, 20 kA for One and half busbar system (Vertical type, single break, Insulator; SP-70H)	7	set	Aoto Substation	Mar-2012	Nov-2012
Disconnecting switches	72 kV, 1200 A, 20 kA (Hirizontal type, double breaks, Insulator; SP-60H)	2	set	Shirakibaru Substation	Mar-2012	Oct-2012
Disconnecting switches	72 kV, 1200 A, 20 kA (Hirizontal type, double breaks, Insulator; SP-60H)	2	set	Maebaru Substation	Oct-2011	May-2012
Disconnecting switches	72 kV, 1200 A, 20 kA with ES (Hirizontal type, double breaks, Insulator; SP-60H)	2	set	Shirakibaru Substation	Mar-2012	Oct-2012
Disconnecting switches	72 kV, 1200 A, 20 kA with ES (Hirizontal type, double breaks, Insulator; SP-70H)	2	set	Aoto Substation	Oct-2011	May-2012
Disconnecting switches	72 kV, 1200 A, 20 kA with ES (Hirizontal type, double breaks, Insulator; SP-70H)	2	set	Aoto Substation	Apr-2012	Nov-2012
Disconnecting switches	72 kV, 1200 A, 20 kA for One and half busbar system (Horizontal type, double breaks, Insulator; SP-70H)	4	set	Aoto Substation	Apr-2012	Nov-2012
Disconnecting switches	72 kV, 1200 A, 25 kA (Vertical type, single break, Insulator; SP-70H)	5	set	Yuge Substation	Nov-2011	Jun-2012
Disconnecting switches	72 kV, 1200 A, 25 kA with ES (Hirizontal type, double breaks, Insulator; SP-70H)	4	set	Yuge Substation	Dec-2011	Jun-2012
Disconnecting switches	72 kV, 1200 A, 25 kA for One and half busbar system (Horizontal type, double breaks, Insulator; SP-70H)	3	set	Yuge Substation	Dec-2011	Jun-2012

Procurement Plan for Our Electric Power Facilities

(Category: Equipment and Materials for Substations)

(Conditions below are subject to change.)

Description and Specifications		Quantity	Unit	Requesting Office/Station	Month of quotation	Month of delivery
Disconnecting switches	72 kV, 2000 A, 20 kA (Vertical type, single break, Insulator; SP-850A+650B)	4	set	Anse Substation	Nov-2011	Jun-2012
Disconnecting switches	72 kV, 2000 A, 25 kA (Vertical type, single break, Insulator; SP-70H)	8	set	Yuge Substation	Nov-2011	Jun-2012
Disconnecting switches	72 kV, 2000 A, 25 kA (Hirizontal type, double breaks, Insulator; SP-70H)	3	set	Higashi Ozu Substation	May-2012	Jan-2013
Disconnecting switches	72 kV, 2000 A, 25 kA with ES (Hirizontal type, double breaks, Insulator; SP-70H)	2	set	Higashi Ozu Substation	May-2012	Jan-2013
Disconnecting switches	72 kV, 2000 A, 25 kA with ES (Hirizontal type, double breaks, Insulator; SP-70H)	2	set	Yuge Substation	Dec-2011	Jun-2012
Disconnecting switches	72 kV, 2000 A, 25 kA for One and half busbar system (Horizontal type, double breaks, Insulator; SP-70H)	3	set	Yuge Substation	Dec-2011	Jun-2012
Disconnecting switches	72 kV, 3600 A, 25 kA (Vertical type, single break, Insulator; SP-70H)	4	set	Yuge Substation	Nov-2011	Jun-2012
Disconnecting switches	72 kV, 4000 A, 25 kA for One and half busbar system (Horizontal type, single break, Insulator; SP-70H)	2	set	Yuge Substation	Nov-2011	Jun-2012
Disconnecting switches	Single phase Line switch (LS); 72 kV, 800 A, 20 kA (Horizontal type, single break, Insulator; SP-70H)	1	set	Yuge Substation	Nov-2011	Jun-2012
Disconnecting switches	Single phase, 72 kV, 800 A, 20 kA (Hirizontal type, single break, Insulator; SP-60H)	1	set	Koga Substation	Jan-2012	Sep-2012
Disconnecting switches	Single phase, 72 kV, 800 A, 20 kA (Hirizontal type, single break, Insulator; SP-70)	1	set	Higashi Oita Substation	Apr-2012	Dec-2012
Disconnecting switches	72 kV, 800 A, 20 kA (Hirizontal type, double breaks, Insulator; SP-60H)	1	set	Tadami Substation	Jun-2011	Oct-2012
Disconnecting switches	Single phase, 72 kV, 800 A, 20 kA (Hirizontal type, single break, Insulator; SP-70H)	1	set	Himuka Substation	Jun-2012	Sep-2013
Disconnecting switches	72 kV, 800 A, 25 kA (Hirizontal type, single break, Insulator; SP-60H)	1	set	Choujabaru Substation	Aug-2011	Apr-2012
Control terminal units	for 220 kV control, Front access type	1	set	Himuka Substation	Mar-2012	Oct-2013
Control terminal units	for 500 kV control, Rear access type	1	set	Himuka Substation	Mar-2012	Oct-2013
Signal distributors	Signal distributors equipped in Substation server frames	1	set	Himuka Substation	Apr-2012	Nov-2013
Circuit breakers	120 kV, 800 A, 20 kA, 5C GCB with rated operating duty class R (Bushing; 110-M)	2	set	Okuchi Substation	May-2012	Feb-2013
Circuit breakers	240 kV, 2000 A, 40 kA, 2C GCB with rated operating duty class R (Bushing; 220-M)	1	set	Kisaki Substation	May-2011	Mar-2012
Circuit breakers	240 kV, 2000 A, 40 kA, 2C GCB with rated operating duty class R (Bushing; 220-M)	1	set	Kisaki Substation	May-2011	May-2012
Circuit breakers	240 kV, 3000 A, 31.5 kA, 2C GCB with rated operating duty class R (Bushing; 275-M)	1	set	Minami Miyazaki Substation	Oct-2011	Oct-2012

Procurement Plan for Our Electric Power Facilities

(Category: Equipment and Materials for Substations)

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Description and Specifications		Quantity	Unit	Requesting Office/Station	Month of quotation	Month of delivery
Circuit breakers	240 kV, 3000 A, 31.5 kA, 2C GCB with rated operating duty class R (Bushing; 275-M)	1	set	Nishi Oita Substation	Jun-2011	Jun-2012
Circuit breakers	240 kV, 3000 A, 31.5 kA, 2C GCB with rated operating duty class R (Bushing; 275-M)	1	set	Nishi Oita Substation	Jan-2012	Jan-2013
Circuit breakers	240 kV, 3000 A, 50 kA, 2C GCB with rated operating duty class R (Bushing; 275-M)	2	set	Koujaku Substation	Dec-2011	Jan-2013
Circuit breakers	72 kV, 1200 A, 20 kA, 5C GCB with rated operating duty class R (Bushing; 66-H)	2	set	Izumi Substation	Feb-2012	Sep-2012
Circuit breakers	72 kV, 1200 A, 20 kA, 5C GCB with rated operating duty class R (Bushing; 66-H)	5	set	Aoto Substation	Apr-2012	Nov-2012
Circuit breakers	72 kV, 1200 A, 20 kA, 5C GCB with rated operating duty class R (Bushing; 66-M)	2	set	Shirakibaru Substation	Mar-2012	Oct-2012
Circuit breakers	72 kV, 1200 A, 20 kA, 5C GCB with rated operating duty class R (Bushing; 66-M)	2	set	Maebaru Substation	Oct-2011	May-2012
Circuit breakers	72 kV, 1200 A, 25 kA, 5C GCB with rated operating duty class R (Bushing; 66-H)	2	set	Minami Miyazaki Substation	Jun-2011	Jan-2012
Circuit breakers	72 kV, 1200 A, 31.5 kA, 5C GCB with rated operating duty class R (Bushing; 66-M)	1	set	Kisaki Substation	Jun-2011	May-2012
Circuit breakers	72 kV, 2000 A, 20 kA, 5C E-GCB (Hybrid type; CB with rated operating duty class R, LS, Line ES & Line PD, Bushing; 66-M)	1	set	Matsubase Substation	Jul-2011	Apr-2012
Circuit breakers	72 kV, 2000 A, 20 kA, 5C GCB with rated operating duty class R (Bushing; 66-L)	1	set	Hirosaki Substation	May-2012	Jan-2013
Circuit breakers	72 kV, 2000 A, 25 kA, 5C GCB with rated operating duty class R (Bushing; 66-H)	1	set	Osumi Substation	Jul-2011	Oct-2012
Circuit breakers	72 kV, 2000 A, 25 kA, 5C GCB with rated operating duty class R (Bushing; 66-M)	2	set	Higashi Ozu Substation	Jun-2012	Jan-2013
Circuit breakers	72 kV, 2000 A, 25 kA, 5C GCB with rated operating duty class R (Bushing; 66-M)	4	set	Yuge Substation	Dec-2011	Jun-2012
Circuit breakers	72 kV, 2000 A, 31.5 kA, 5C GCB with rated operating duty class R (Bushing; 66-H)	1	set	Moji Substation	Mar-2012	Nov-2012
Circuit breakers	72 kV, 3000 A, 25 kA, 5C GCB with rated operating duty class R (Bushing; 66-H)	1	set	Minami Miyazaki Substation	May-2011	Dec-2011
Circuit breakers	72 kV, 3000 A, 25 kA, 5C GCB with rated operating duty class R (Bushing; 66-M)	1	set	Yuge Substation	Dec-2011	Jun-2012
Circuit breakers	72 kV, 3000 A, 31.5 kA, 5C GCB with rated operating duty class R (Bushing; 66-M)	1	set	Nishi Oita Substation	Jun-2011	Jan-2012
Circuit breakers	72 kV, 800 A, 20 kA, 5C GCB with rated operating duty class R (Bushing; 110-M)	2	set	Anse Substation	Apr-2012	Jan-2013
Circuit breakers	72 kV, 800 A, 20 kA, 5C GCB with rated operating duty class R (Bushing; 66-H)	1	set	Komenotsu Substation	Jan-2012	Nov-2012
Circuit breakers	72 kV, 800 A, 20 kA, 5C GCB with rated operating duty class R (Bushing; 66-H)	1	set	Himeura Substation	Mar-2012	Nov-2012

Procurement Plan for Our Electric Power Facilities

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Description and Specifications		Quantity	Unit	Requesting Office/Station	Month of quotation	Month of delivery
Circuit breakers	72 kV, 800 A, 20 kA, 5C GCB with rated operating duty class R (Bushing; 66-H)	2	set	Higashitaku Substation	Aug-2011	Apr-2012
Circuit breakers	72 kV, 800 A, 20 kA, 5C GCB with rated operating duty class R (Bushing; 66-H)	1	set	Nakatsu Substation	Feb-2012	Oct-2012
Circuit breakers	72 kV, 800 A, 20 kA, 5C GCB with rated operating duty class R (Bushing; 66-H)	1	set	Yamakawa Substation	May-2011	Dec-2011
Circuit breakers	72 kV, 800 A, 20 kA, 5C GCB with rated operating duty class R (Bushing; 66-H)	1	set	Yamakawa Substation	Apr-2012	Nov-2012
Circuit breakers	72 kV, 800 A, 20 kA, 5C GCB with rated operating duty class R (Bushing; 66-H)	2	set	Emukae Substation	Sep-2011	Apr-2012
Circuit breakers	72 kV, 800 A, 20 kA, 5C GCB with rated operating duty class R (Bushing; 66-H)	1	set	Aki Substation	Jun-2011	Feb-2012
Circuit breakers	72 kV, 800 A, 20 kA, 5C GCB with rated operating duty class R (Bushing; 66-L)	1	set	Hirosaki Substation	Jun-2012	Jan-2013
Circuit breakers	72 kV, 800 A, 20 kA, 5C GCB with rated operating duty class R (Bushing; 66-M)	1	set	Tadami Substation	Jun-2011	Oct-2012
Circuit breakers	72 kV, 800 A, 20 kA, 5C GCB with rated operating duty class R (Bushing; 66-M)	1	set	Takeda Hydro Power Station	Jun-2011	Jan-2012
Circuit breakers	72 kV, 800 A, 20 kA, 5C GCB with rated operating duty class R (Bushing; 66-M)	1	set	Otatsu Hydro Power Station	Jan-2012	Sep-2012
Circuit breakers	2 kV, 800 A, 20 kA, 5C GCB with rated operating duty class R (Bushing; 66-M)	1	set	Miyata Substation	May-2012	Dec-2012
Circuit breakers	72 kV, 800 A, 20 kA, 5C GCB with rated operating duty class R (Bushing; 66-M, Elephant-shaped connection box	1	set	Tokuriki Substaion	Mar-2012	Oct-2012
Circuit breakers	72 kV, 800 A, 25 kA, 5C GCB with rated operating duty class R (Bushing; 66-H)	1	set	Arao Substation	Aug-2011	Oct-2012
Circuit breakers	72 kV, 800 A, 25 kA, 5C GCB with rated operating duty class R (Bushing; 66-M)	1	set	Choujabaru Substation	Sep-2011	Apr-2012
Circuit breakers	72 kV, 800 A, 31.5 kA, 5C GCB with rated operating duty class R (Bushing; 66-H)	1	set	Kita Saga Substation	Aug-2011	Apr-2012
Circuit breakers	72 kV, 800 A, 31.5 kA, 5C GCB with rated operating duty class R (Bushing; 66-M)	1	set	Nishi Oita Substation	Jun-2011	Jan-2012
Automatic oscillograph transmission system	AC 32 channels, DC 64 channels for IP type	1	set	Himuka Substation	Mar-2012	Mar-2013
Automatic oscillograph transmission system	AC 32 channels, DC 64 channels for IP type	1	set	Himuka Substation	Mar-2012	Mar-2013
Automatic oscillograph transmission system	AC 32 channels, DC 64 channels with Momentary voltage drop detector, for IP type	1	set	Aoto Substation	Feb-2012	Dec-2012
Automatic oscillograph transmission system	AC 32 channels, DC 64 channels with Momentary voltage drop detector, for IP type	1	set	Kumamoto Substation	May-2012	Mar-2013
Automatic oscillograph transmission system	AC 32 channels, DC 64 channels for IP type	1	set	Yamae Substation	May-2011	Feb-2012

Procurement Plan for Our Electric Power Facilities

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Description and Specifications		Quantity	Unit	Requesting Office/Station	Month of quotation	Month of delivery
Automatic oscillograph transmission system	AC 64 channels, DC 128 channels with Momentary voltage drop detector, for IP type	1	set	Kasugamachi Substation	Sep-2011	Jul-2012
Automatic oscillograph transmission system	AC 64 channels, DC 128 channels with Momentary voltage drop detector, for IP type	1	set	Takeo Substation	Nov-2011	Sep-2012
Automatic oscillograph transmission system	AC 96 channels, DC 192 channels for IP type	1	set	Shin Kagoshima Substation	Apr-2012	Feb-2013
Automatic oscillograph receiving system	Receiving device, for IP type	1	set	Minami Kyusyu Substation	Mar-2012	Jul-2013
Process computers for Substations	Interface for Telemeter control; Base frames, I/O frames for single data transmission (13 channels	1	set	Takeo Substation	Jun-2011	May-2012
Process computers for Substations	Interface for Telemeter control; Base frames x 2, Data transmission unit x 4, Data transmission transfer frame x 1	1	set	Miyakonojou Substation	Jun-2011	Apr-2012
Process computers for Substations	Interface for Telemeter control; Base frames x 2, Data transmission unit x 4, Data transmission transfer frame x 1	1	set	Hitotsuse Hydro Power Station	Jun-2011	Jun-2012
Process computers for Substations	Interface for Telemeter control; Base frames x 2, Data transmission unit x 4, Data transmission transfer frame x 1 (32 channels)	1	set	Yuge Substation	Jul-2011	Sep-2012
Process computers for Substations	Interface for Telemeter control; Base frames x 2, Data transmission unit x 6, Data transmission transfer frame x 2 (40 channels)	1	set	Oe Substation	Jul-2011	Sep-2012
Meteorological observation equipment	for Temperature, Humidity, Wind direction & velocity, Atmospheric pressure, Insulator contamination measurement device and others	1	set	Sendai Substation	Jun-2011	Feb-2012
Simplified control system	for Substation system monitoring	1	set	Himuka Substation	Jun-2012	Oct-2013
Remote monitoring and control system	Substation server frame x 2, Telecommunication interface (HDLC) frame x 2	1	set	Himuka Substation	Apr-2012	Nov-2013
Bushings	220-M x 3, 66-M x 4	7	set	Higashi Fukuoka Substation	Apr-2012	Feb-2013
Solid insulated switchgears (SIS)	24 kV, 600 A SIS for Bus tie (without CB)	1	set	Tadami Substation	Jun-2011	Nov-2012
Solid insulated switchgears (SIS)	7.2 kV, 2000 A, 20 kA SIS for dummy Bus tie (without CB)	1	set	Okuchi Substation	Jun-2012	Mar-2013
Solid insulated switchgears (SIS)	24 kV, 600 A, 25 kA CB suitable for SIS feeder unit	1	set	Tadami Substation	Jun-2011	Nov-2012
Gas insulated switchgears (GIS)	240 kV, 3000 A, 50 kA H-GIS for Bus tie (Bushing; 275-M)	1	set	Koujaku Substation	Nov-2011	May-2013
Gas insulated switchgears (GIS)	72 kV, 1200 A, 31.5 kA F-GIS for Feeder unit (Shunt reactor)	1	set	Minami Kyusyu Substation	May-2011	Feb-2012
Gas insulated switchgears (GIS)	72 kV, 1200 A, 31.5 kA F-GIS for Transofer unit	2	set	Chiyo Substation	Aug-2011	Jul-2012
Gas insulated switchgears (GIS)	72 kV, 2000 A, 25 kA F-GIS for Feeder unit	1	set	Maematsubara Substation	May-2012	Apr-2013
Gas insulated switchgears (GIS)	72 kV, 2000 A, 31.5 kA F-GIS for Bus tie	1	set	Chiyo Substation	Aug-2011	Jul-2012

