

Procurement Plan for Our Electric Power Facilities

(Category: Equipment and materials for Hydro power stations)

(Conditions below are subject to change.)

Description and Specifications		Quantity	Unit	Requesting Office/Station	Month of quotation	Month of delivery
Water turbines, Generators and their accessories	Parts for disassembling and check of Inlet valves and By-pass valves	1	set	Minamihata Hydro Power Station	Feb-2011	Apr-2011
Water turbines, Generators and their accessories	Water turbine, Generator (310 kW) and other equipment	1	set	Kamishiiba Hydro Power Station	Jan-2011	Dec-2011
Water turbines, Generators and their accessories	Parts for disassembling and check of Governor	1	set	Minamihata Hydro Power Station	Feb-2011	Apr-2011
Water turbines, Generators and their accessories	Main feed water pump	1	set	Ohira Pumped Storage Power Station	Jun-2010	Apr-2011
Water turbines, Generators and their accessories	Main feed water pump	1	set	Ohira Pumped Storage Power Station	May-2010	Feb-2011
Water turbines, Generators and their accessories	Generator (6 kV, 80 kVA)	1	set	Naongawa Hydro Power Station	Aug-2010	Dec-2011
Water turbines, Generators and their accessories	Governor (class Z), Governor control panel, Inlet valves	1	set	Naongawa Hydro Power Station	Aug-2010	Dec-2011
Water turbines, Generators and their accessories	Generator stator (1,800 kVA)	1	set	Nogami Power Station	Sep-2010	Oct-2011
Water turbines, Generators and their accessories	Contol centers	1	set	Yanagimata Hydro Power Station	Oct-2010	Nov-2011
Water turbines, Generators and their accessories	Parts for general inspection of Motor generator for Pumped storage water turbines	1	set	Tenzan Pumped Storage Power Station	Jan-2011	May-2011
Water turbines, Generators and their accessories	Parts for general inspection of Motor generator for Pumped storage water turbines	1	set	Tenzan Pumped Storage Power Station	Jan-2011	May-2011
Water turbines, Generators and their accessories	Water turbine, Generator, Generator control panel, Plant control panel and other necessary equipmen	1	set	Kawakamigawa No. 2 Hydro Power Station	Feb-2011	Jun-2012
Water turbines, Generators and their accessories	Disassembling and repairing materials for Water turbine and generator	1	set	Kikuchigawa No. 2 Hydro Power Station	Jun-2010	Jan-2011
Water turbines, Generators and their accessories	Disassembling and repairing materials for Water turbine and generator	1	set	Yokono Hydro Power Station	May-2010	Nov-2010
Water turbines, Generators and their accessories	Disassembling and repairing materials for Water turbine and generator	1	set	Gokanosho Hydro Power Station	Apr-2011	Nov-2011
Water turbines, Generators and their accessories	Disassembling and repairing materials for Water turbine and generator	1	set	Shiramizutaki Hydro Power Station	Aug-2010	Mar-2011
Water turbines, Generators and their accessories	Disassembling and repairing materials for Water turbine and generator	1	set	Kuwanouchi Hydro Power Station	Sep-2010	Feb-2011
Water turbines, Generators and their accessories	Disassembling and repairing materials for Water turbine and generator	1	set	Iwayado Hydro Power Station	Jun-2010	Oct-2010
Water turbines, Generators and their accessories	Disassembling and repairing materials for Water turbine and generator	1	set	Shin Sumiyougawa Hydro Power Station	Jun-2010	Oct-2010
Water turbines, Generators and their accessories	Disassembling and repairing materials for Water turbine and generator	1	set	Uchinoura Hydro Power Station	Nov-2010	Mar-2011
Water turbines, Generators and their accessories	Materials for disassembling and check of Water turbines	1	set	Minamihata Hydro Power Station	Feb-2011	Apr-2011

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Water turbines, Generators and their accessories	Materials for disassembling and repairing of Water tubines	1	set	Suitenbuchi Hydro Power Station	Jun-2010	Dec-2010
Water turbines, Generators and their accessories	Materials for disassembling and repairing of Generaters	1	set	Minamihata Hydro Power Station	Feb-2011	Apr-2011
Water turbines, Generators and their accessories	Materials for disassembling and repairing of Generaters	1	set	Suitenbuchi Hydro Power Station	Jun-2010	Dec-2010
Facilities for Hydro power stations	Intrusion monitoring system (CPU & Post)	1	set	Tenzan Pumped Storage Power Station	Oct-2010	Feb-2011
Facilities for Hydro power stations	Draft tube shut-off plates	1	set	Ohira Pumped Storage Power Station	Aug-2010	Nov-2010
Facilities for Hydro power stations	Information transmission equipment	1	set	Saigou Hydro Power Station	Jul-2010	Jan-2011
Switch panels	Plant control panels and other equipment	1	set	Tenzan Pumped Storage Power Station	Aug-2010	Oct-2011
Switch panels	AVR panels	1	set	Tenzan Pumped Storage Power Station	Oct-2010	Feb-2012
Switch panels	Governor control panels	1	set	Tenzan Pumped Storage Power Station	Oct-2010	Feb-2012
Switch panels	Plant control panels and Relay panels	2	panel	Migita Hydro Power Ststion	Oct-2010	Oct-2011
Switch panels	Plant control panels (sequencer) and others	1	set	Ouchibaru Hydro Power Station	May-2011	Dec-2011
Switch panels	Plant control panels (sequencer) and others	1	set	Yuda Hydro Power Station	Nov-2010	Nov-2011
Switch panels	Plant control panels (sequencer)	1	set	Hanasegawa Hydro Power Station	Apr-2011	Oct-2011
Enclosed switchgears	7.2kV punched-metal enclosed panel (type A) for House transformer (30 kVA)	1	set	Shin Sumiyougawa Hydro Power Station	May-2010	Oct-2010
Switch panels	Generator control panel, Generator automatic panel, Automatic synchronizing pane	1	set	Chijiwa No.3 Hydro Power Station	Mar-2011	Oct-2011
Switch panels	66 kV Transformer protection panel (Digital relay)	1	panel	Makinokuchi Hydro Power Station	May-2010	Dec-2010
Enclosed switchgears	7.2kV, 600A, 12.5kA punched-metal enclosed panel (type A) for Feeder	3	set	Shin Sumiyougawa Hydro Power Station	May-2010	Oct-2010
Enclosed switchgears	7.2kV, 2000A, 12.5kA punched-metal enclosed panel (type A) for Incoming	1	set	Shin Sumiyougawa Hydro Power Station	May-2010	Oct-2010
Enclosed switchgears	7.2kV, 2000A, 12.5kA punched-metal enclosed panel (type A) for Generator synchronizinç	1	set	Shin Sumiyougawa Hydro Power Station	May-2010	Oct-2010
Protection relay panels	110 kV and less voltage Protection relay panels (Digital relay)	1	set	Makinokuchi Hydro Power Station	May-2010	Dec-2010
Protection relay system	Transformer and Feeder protection panel for Distribution substations	1	set	Yoake Hydro Power Station	Jun-2010	May-2011

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Protection relay system	Transformer and Feeder protection panel for Distribution substations	1	set	Yoake Hydro Power Station	Jun-2010	May-2011
Protection relay system	Transformer and Feeder protection panel for Distribution substations	1	set	Yanagimata Hydro Power Station	Jul-2010	Jul-2011
Protection relay system	110 kV Selective and Distance relay panel	1	set	Oyodo River No. 2 Hydro Power Station	Jun-2010	Oct-2011
Protection relay system	66 kV Selective and Distance relay panel	1	set	Kawabaru Hydro Power Station	Jun-2010	Oct-2011
Protection relay system	110 kV Selective and Distance relay panel (DZ relay only)	1	set	Oyodo River No. 2 Hydro Power Station	Jan-2011	Nov-2011
Protection relay system	110 kV Auto-reclosing panel (type A)	1	set	Oyodo River No. 2 Hydro Power Station	Oct-2010	Sep-2011
Protection relay system	110 kV Auto-reclosing panel (type A)	1	set	Tsukabaru Hydro Power Ststion	Sep-2010	Jul-2011
Protection relay system	110 kV Auto-reclosing panel (type A)	1	set	Yamasubaru Hydro Power Ststion	Sep-2010	Jul-2011
Protection relay system	110 kV Auto-reclosing panel (type A)	1	set	Saigou Hydro Power Station	Sep-2010	Jul-2011
Transformers	11 kV, 300 kVA House transformer and other equipment	1	set	Ouchibaru Hydro Power Station	May-2011	Dec-2011
Instrument transformers	66 kV Bus PD (200 VA, Bushing: 66-M)	3	set	Gokanosho Hydro Power Station	Jun-2010	Jan-2011
Instrument transformers	11 kV GPT for excitation circuit (300 VA, Indoor use)	1	set	Ohira Pumped Storage Power Station	Sep-2010	Feb-2011
Instrument transformers	11 kV GPT for protection and metering circuit (200 VA, Indoor use)	1	set	Ohira Pumped Storage Power Station	Sep-2010	Feb-2011
Instrument transformers	110 kV Bus PD (200 VA, Bushing: 110-M)	6	set	Yamasubaru Hydro Power Ststion	Dec-2010	Jul-2011
Lightning arresters	11 kV Surge absorber (0.3 micro Farad)	3	set	Ohira Pumped Storage Power Station	Sep-2010	Feb-2011
Circuit breakers	11 kV, 2000 A, 25 kA	1	set	Ayunose Hydro Power Ststion	Jun-2010	Feb-2011
Resistors	11/ 3 kV, 100 A, 63.5 ohms	1	set	Ohira Pumped Storage Power Station	Sep-2010	Feb-2011
Substation servers	Server frame x 1, I/O frame x 1, without interface for sales offices	1	set	Sugiyasu Hydro Power Ststion	Dec-2010	Oct-2011
Substation servers	Server frame x 1, I/O frame x 1, without interface for sales offices	1	set	Okawachi Power Station	Feb-2011	Dec-2011
Substation servers	Server frame x 1, I/O frame x 1, without interface for sales offices	1	set	Ouchibaru Hydro Power Station	Dec-2010	Oct-2011
Process computers for Substations	Interface for Telemeter control, Base frame and I/O frame (25 channels)	1	set	Hita Power System Maintenance Office	Jul-2010	Mar-2013