



## Cancellation of EGAT Accepted Hydropower Manufacturer Lists

Electricity Generating Authority of Thailand (EGAT) hereby announces the cancellation of EGAT Accepted Hydropower Manufacturer Lists for

- Hydropower ( $\geq 70$  MW)
- Pumped Storage Hydropower ( $\geq 150$  MW)
- Hydropower ( $\geq 70$  MW) and Pumped Storage Hydropower ( $\geq 150$  MW)

ELECTRICITY GENERATING AUTHORITY OF THAILAND

September 15 , 2023

(Mrs. Mayudee Jotisuta)

Chief,

International Procurement Department - Generation,  
Power Plant Development and Renewable Energy - Segment  
Procurement and Inventory Management Division

EGAT Accepted Hydropower Manufacturer Lists

Rev. Jan. 2022

(Note: In case that there are at least three (3) accepted manufacturers, only those in the list will be eligible for EGAT's procurement.)

1) Hydropower (≥ 70 MW)

Item	Equipment	Manufacturer / Country	Remark
1.1 Generator and Turbine	1.1.1 Generator	ANDRITZ Hydro GmbH (ANDRITZ) / Austria	
		GE Hydro France (GE) / France	
		Hitachi Mitsubishi Hydro Corporation (HM HYDRO) / Japan	
		Toshiba Energy Systems & Solutions Corporation (TOSHIBA) / Japan	
		Voith Hydro GmbH&Co. KG (Voith) / Germany	
	1.1.2 Turbine	ANDRITZ Hydro GmbH (ANDRITZ) / Austria	
		GE Hydro France (GE) / France	
		Hitachi Mitsubishi Hydro Corporation (HM HYDRO) / Japan	
		Toshiba Energy Systems & Solutions Corporation (TOSHIBA) / Japan	
		Voith Hydro GmbH&Co. KG (Voith) / Germany	

2) Pumped Storage Hydropower (≥ 150 MW)

Item	Equipment	Manufacturer / Country	Remark
2.1 Generator and Turbine	2.1.1 Generator-Motor	ANDRITZ Hydro GmbH (ANDRITZ) / Austria	
		GE Hydro France (GE) / France	
		Hitachi Mitsubishi Hydro Corporation (HM HYDRO) / Japan	
		Toshiba Energy Systems & Solutions Corporation (TOSHIBA) / Japan	
		Voith Hydro GmbH&Co. KG (Voith) / Germany	
	2.1.2 Reversible Pump-Turbine	ANDRITZ Hydro GmbH (ANDRITZ) / Austria	
		GE Hydro France (GE) / France	
		Hitachi Mitsubishi Hydro Corporation (HM HYDRO) / Japan	
		Toshiba Energy Systems & Solutions Corporation (TOSHIBA) / Japan	
		Voith Hydro GmbH&Co. KG (Voith) / Germany	

3) Hydropower (≥ 70 MW) and Pumped Storage Hydropower (≥ 150 MW)  
Common Equipment

Item	Equipment	Manufacturer / Country	Remark
3.1 Instrument	3.1.1 Temperature Element and Transmitter	Emerson (Thailand) Limited (Emerson) / Thailand	
		NESSTECH INC. (NESS) / Japan	
		SUKEGAWA ELECTRIC CO., LTD. (NIMBLOX) / Japan	
		WIKA Alexander Wiegand SE & Co. KG (WIKA) / Germany	
		3.1.2 Pressure Element and Transmitter	
	Emerson (Thailand) Limited (Emerson) / Thailand		
	Kyowa Electronic Instruments Co., Ltd. (KYOWA) / Japan		
	NESSTECH INC. (NESS) / Japan		
	WIKA Alexander Wiegand SE & Co. KG (WIKA) / Germany		
	3.1.3 Differential Pressure and Transmitter	DRUCK Limited (Druck) / UK	
		Emerson (Thailand) Limited (Emerson) / Thailand	
		TOKYO RYUKI KOGYO CO., LTD. (TOKYO KEISO) / Japan	
		WIKA Alexander Wiegand SE & Co. KG (WIKA) / Germany	
	3.1.4 Level Element and Transmitter	CHUO ELECTRIC WORKS,LTD. (CEW) / Japan	
		DRUCK Limited (Druck) / UK	
		Emerson (Thailand) Limited (Emerson) / Thailand	
		NOHKEN INC. (NOHKEN) / Japan	
		RITTMAYER AG (RITTMAYER) / Switzerland	
		TOKYO KEISO CO., LTD. (TOKYO KEISO) / Japan	
		WIKA Alexander Wiegand SE & Co. KG (WIKA) / Germany	

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3) Hydropower (≥ 70 MW) and Pumped Storage Hydropower (≥ 150 MW)  
Common Equipment

Item	Equipment	Manufacturer / Country	Remark
3.1 Instrument	3.1.5 Flow Element and Transmitter	Emerson (Thailand) Limited (Emerson) / Thailand	
		RITTMEYER AG (RITTMEYER) / Switzerland	
		TOKYO KEISO CO., LTD. (TOKYO KEISO) / Japan	
		TOKYO RYUKI KOGYO CO., LTD. (RYUKI) / Japan	
	3.1.6 Water Contamination in Oil	NOHKEN INC. (NOHKEN) / Japan	Not eligible
3.1.7 Position Sensor / Displacement Sensor / Stroke Sensor	Applied Electronics Corporation (AEC) / Japan	Not eligible	
	Meggitt SA (Meggitt) / Switzerland		
3.2 Programmable Logic Controller (PLC)	3.2.1 PLC	ABB Automation (Thailand) Co., Ltd. (ABB) / Thailand	
		Emerson (Thailand) Limited (Emerson) / Thailand	
		Hitachi Mitsubishi Hydro Corporation (HM HYDRO) / Japan	
		Nexus Controls LLC (Nexus Controls) / United States	
		Schneider Electric France (Schneider) / France	
		Toshiba Energy Systems & Solutions Corporation (TOSHIBA) / Japan	

3) Hydropower (≥ 70 MW) and Pumped Storage Hydropower (≥ 150 MW)  
Electrical Equipment

Item	Equipment	Manufacturer / Country	Remark
3.3 Electrical Auxiliary Equipment	3.3.1 Fire Extinguishing System for Generator	Antifire Co., Ltd. (ANTIFIRE) / Thailand	
		Macron Safety Systems (UK) Limited. (Hygood) / United Kingdom	
		Minimax GmbH (MINIMAX) / Germany	
	3.3.2 Air Gap Monitoring System	ANDRITZ Hydro GmbH (ANDRITZ) / Austria	
		Bently Nevada, LLC (Bently Nevada) / United States	
		Brüel & Kjær Vibro GmbH (Brüel & Kjær Vibro) / Germany	
		IRIS Power LP (IRIS Power) / Canada	
		Meggitt SA (Meggitt) / Switzerland	
		VibroSystem Inc. (VibroSystem) / Canada	
	3.3.3 Vibration Monitoring System	ANDRITZ Hydro GmbH (ANDRITZ) / Austria	
		Applied Electronics Corporation (AEC) / Japan	
		Bently Nevada, LLC (Bently Nevada) / United States	
		Brüel & Kjær Vibro GmbH (Brüel & Kjær Vibro) / Germany	
		Emerson (Thailand) Limited (Emerson) / Thailand	
		Meggitt SA (Meggitt) / Switzerland	
VibroSystem Inc. (VibroSystem) / Canada			
3.4 Excitation System	3.4.1 Excitation Transformer	Hitachi Energy Korea Ltd. (ABB) / Korea	
		Hitachi Mitsubishi Hydro Corporation (HM HYDRO) / Japan	
		Eurocast International Co., Ltd. (Eurocast) / Thailand	
		RISHO KOGYO CO., LTD. (RISHO) / Japan	
3.5 Medium Voltage Switchgear	3.5.1 Generator Circuit Breaker	Grid Solutions SAS (GE) / France	
		Hitachi Energy Switzerland AG (ABB) / Switzerland	
		Siemens AG Mozartstr (Siemens) / Germany	
	3.5.2 Medium Voltage Circuit Breaker	Grid Solutions SAS (GE) / France	Not eligible
		Siemens AG Mozartstr (Siemens) / Germany	
	3.5.3 Disconnecting Switch	Grid Solutions SAS (GE) / France	
Siemens AG Mozartstr (Siemens) / Germany			
Societe Dauphinoise De Constructions Electro Mecaniques (S.D.C.E.M.) / France			

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3) Hydropower ( $\geq 70$  MW) and Pumped Storage Hydropower ( $\geq 150$  MW)

## Electrical Equipment

Item	Equipment	Manufacturer / Country	Remark
3.6 Control, Metering and Protection System	3.6.1 Distribution Control System (DCS)	ABB Automation (Thailand) Co., Ltd. (ABB) / Thailand	
		ANDRITZ Hydro GmbH (ANDRITZ) / Austria	
		Emerson (Thailand) Limited (Emerson) / Thailand	
		Hitachi Mitsubishi Hydro Corporation (HM HYDRO) / Japan	
		Nexus Controls LLC (Nexus Controls) / United States	
		Toshiba Energy Systems & Solutions Corporation (TOSHIBA) / Japan	
	3.6.2 Supervisory Control and Data Acquisition (SCADA)	ABB Automation (Thailand) Co., Ltd. (ABB) / Thailand	
		ANDRITZ Hydro GmbH (ANDRITZ) / Austria	
		Emerson (Thailand) Limited (Emerson) / Thailand	
		Hitachi Mitsubishi Hydro Corporation (HM HYDRO) / Japan	
		Nexus Controls LLC (Nexus Controls) / United States	
	3.6.3 Automatic Synchronization	ABB Automation (Thailand) Co., Ltd. (ABB) / Thailand	
		ANDRITZ Hydro GmbH (ANDRITZ) / Austria	
		Basler Electric Company (Basler Electric) / United States	
		Hitachi Mitsubishi Hydro Corporation (HM HYDRO) / Japan	
		Toshiba Energy Systems & Solutions Corporation (TOSHIBA) / Japan	
3.6.4 Protection for Generator & Main Transformer	ABB Automation (Thailand) Co., Ltd. (ABB) / Thailand		
	ANDRITZ Hydro GmbH (ANDRITZ) / Austria		
	Basler Electric Company (Basler Electric) / United States		
	GE Multilin (GE) / Canada		
	Hitachi Mitsubishi Hydro Corporation (HM HYDRO) / Japan		
	Toshiba Energy Systems & Solutions Corporation (TOSHIBA) / Japan		
3.7 Station Service System	3.7.1 Battery	BAE Batterien GmbH (BAE) / Germany	
		FIAMM Energy Technology S.p.A. (FIAMM) / Italy	
		GS Yuasa International Ltd. (GS Yuasa) / Japan	
	3.7.2 Charger and Inverter	BENNING Power Electronics Pte Ltd. (BENNING) / Singapore	
		Gutor Electronic Asia Pacific Sdn Bhd (Gutor) / Malaysia	
		STATRON ASIA PACIFIC SDN. BHD. (Statron) / Malaysia	
		Statron AG (Statron) / Switzerland	

3) Hydropower ( $\geq 70$  MW) and Pumped Storage Hydropower ( $\geq 150$  MW)

## Mechanical Equipment

Item	Equipment	Manufacturer / Country	Remark
3.8 Mechanical Auxiliary Equipment	3.8.1 Valve	MISUZU SEIKO CO.,LTD. (MISUZU SEIKO) / Japan	Not eligible
	3.8.2 Strainer	MISUZU SEIKO CO.,LTD. (MISUZU SEIKO) / Japan	Not eligible
	3.8.3 Cyclone / Sand Separator	-	Not eligible

■ : EGAT Hydropower Manufacturer Lists Rev. June 2021

■ : updated as per EGAT Accepted Hydropower Manufacturer Lists Rev. January 2022

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