



## EGAT Hydropower Manufacturer Lists

Electricity Generating Authority of Thailand (EGAT) hereby announces the EGAT Hydropower Manufacturer Lists for Hydro Power plant projects with the unit output of not less than 70 MW.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

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## EGAT Hydropower Manufacturer Lists

Rev. June 2021

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

No.	System/ Equipment	Manufacturer/ Country	Remark
<b>Hydropower <math>\geq</math> 70 MW</b>			
<b>Common Equipment</b>			
<b>1.</b>	<b>Instrument</b>		
1.1	Temperature Element and Transmitter	WIKA Alexander Wiegand SE & Co. KG / Germany (WIKA)	
		NESSTECH INC. / Japan (NESS)	
		SUKEGAWA ELECTRIC CO., LTD. / Japan (NIMBLOX)	
1.2	Pressure Element and Transmitter	WIKA Alexander Wiegand SE & Co. KG / Germany (WIKA)	
		NESSTECH INC. / Japan (NESS)	
		Kyowa Electronic Instruments Co., Ltd. / Japan (KYOWA)	
1.3	Differential Pressure and Transmitter	WIKA Alexander Wiegand SE & Co. KG / Germany (WIKA)	Not eligible
		TOKYO RYUKI KOGYO CO., LTD. / Japan (TOKYO KEISO)	
1.4	Level Element and Transmitter	WIKA Alexander Wiegand SE & Co. KG / Germany (WIKA)	
		RITTMAYER AG / Switzerland (RITTMAYER)	
		TOKYO KEISO CO., LTD. / Japan (TOKYO KEISO)	
		NOHKEN INC. / Japan (NOHKEN)	
		CHUO ELECTRIC WORKS,LTD. / Japan (CEW)	
1.5	Flow Element and Transmitter	RITTMAYER AG / Switzerland (RITTMAYER)	
		TOKYO RYUKI KOGYO CO., LTD. / Japan (RYUKI)	
		TOKYO KEISO CO., LTD. / Japan (TOKYO KEISO)	
1.6	Water Contamination in Oil	NOHKEN INC. / Japan (NOHKEN)	Not eligible
1.7	Position Sensor / Displacement Sensor / Stoke Sensor	Applied Electronics Corporation / Japan (AEC)	Not eligible
1.8	Speed Sensor and Creep Detector	-	Not eligible
<b>2.</b>	<b>Programmable Logic Controller (PLC)</b>		
2.1	PLC	Toshiba Energy Systems & Solutions Corporation / Japan (TOSHIBA)	Not eligible

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<b>Electrical Equipment</b>			
1	<b>Generator and Auxiliary Equipment</b>		
1.1	Generator	GE / France (GE)	
		Toshiba Energy Systems & Solutions Corporation / Japan (TOSHIBA)	
		Hitachi Mitsubishi Hydro Corporation / Japan (HM HYDRO)	
		ANDRITZ Hydro GmbH / Austria (ANDRITZ)	
1.2	Fire Extinguishing System for Generator	Antifire Co., Ltd. / Thailand (ANTIFIRE)	Not eligible
		Minimax GmbH / Germany (MINIMAX)	
1.3	Air Gap Monitoring System	-	Not eligible
1.4	Vibration Monitoring System	Applied Electronics Corporation / Japan (AEC)	Not eligible
2.	<b>Excitation System</b>		
2.1	Excitation Transformer	Hitachi Mitsubishi Hydro Corporation / Japan (HM HYDRO)	Not eligible
3.	<b>Medium Voltage Switchgear</b>		
3.1	Generator Circuit Breaker	Grid Solutions SAS / France (GE)	Not eligible
3.2	Medium Voltage Circuit Breaker	Grid Solutions SAS / France (GE)	Not eligible
3.3	Disconnecting Switch	Grid Solutions SAS / France (GE)	Not eligible
4.	<b>Control, Metering and Protection System</b>		
4.1	Distribution Control System (DCS) and Human Machine Interface (HMI)	Emerson Co.,Ltd / Thailand (EMERSON)	Not eligible
		Toshiba Energy Systems & Solutions Corporation / Japan (TOSHIBA)	
4.2	Supervisory Control and Data Acquisition (SCADA)	-	Not eligible
4.3	Automatic Synchronization	Toshiba Energy Systems & Solutions Corporation / Japan (TOSHIBA)	Not eligible
4.4	Protection for Generator and Main Transformer	GE Multilin / Canada (GE)	Not eligible
		Toshiba Energy Systems & Solutions Corporation / Japan (TOSHIBA)	
5.	<b>Station Service System</b>		
5.1	Battery	BAE Batterien GmbH / Germany (BAE)	Not eligible
5.2	Charger and Inverter	BENNING / Singapore (BENNING)	Not eligible

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Hydropower $\geq$ 70 MW			
Mechanical Equipment			
1	Turbine		
1.1	Turbine	GE / France (GE)	
		Toshiba Energy Systems & Solutions Corporation / Japan (TOSHIBA)	
		Hitachi Mitsubishi Hydro Corporation / Japan (HM HYDRO)	
		ANDRITZ Hydro GmbH / Austria (ANDRITZ)	
2.	Mechanical Auxiliary		
2.1	Valve	MISUZU SEIKO CO.,LTD. / Japan (MISUZU SEIKO)	Not eligible
2.2	Strainer	MISUZU SEIKO CO.,LTD. / Japan (MISUZU SEIKO)	Not eligible
2.3	Cyclone/ Sand Separator	-	Not eligible

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