Name of Laboratory : Laboratory of TEST TECH Co., Ltd.

Address : 30, 32 Soi Rama 2, Soi 63, Rama 2 Road, Samaedam,

Bangkhunthian, Bangkok 10150

Accreditation Number : Testing – 0001

Contact Person : Miss Rewadee Sirimongkol

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Initial Issue Date : 7th July 2004

Issue Date : 19th April 2023

Expired date : 18th April 2027

Standard : ISO/IEC 17025:2017

Reference No. : 0303/6434

Scope of Testing Laboratory Accreditation

Laboratory Name : Laboratory of TEST TECH Co., Ltd.

Address : 30, 32 Rama 2 Soi 63, Rama 2 Road, Samaedam,

Bangkhunthian, Bangkok 10150

Accreditation Number : Testing - 0001

Laboratory Status		: ☑ Permanent ☐ Site ☐	Temporary \square Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Total suspended solids	Standard Methods for the Examination
		dried from 103 °C to 105 °C	of Water and Wastewater, APHA,
		20 mg/L to 5 000 mg/L	AWWA & WEF, 24 th ed., 2023,
			part 2540 D
		- Total dissolved solids	Standard Methods for the Examination
		dried at 180 ℃	of Water and Wastewater, APHA,
		25 mg/L to 8 000 mg/L	AWWA & WEF, 24 th ed., 2023,
			part 2540 C
		- Total dissolved solids	In - house method : TE-24
		dried from 103 °C to 105 °C	based on Standard Methods for the
		25 mg/L to 8 000 mg/L	Examination of Water and Wastewater,
			APHA, AWWA & WEF, 24 th ed., 2023,
			part 2540 C

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Scope of Testing Laboratory Accreditation

Laboratory Name : Laboratory of TEST TECH Co., Ltd.

Address : 30, 32 Rama 2 Soi 63, Rama 2 Road, Samaedam,

Bangkhunthian, Bangkok 10150

Accreditation Number : Testing - 0001

☐ Mobile : **☑** Permanent ☐ Site ☐ Temporary **Laboratory Status** Test Material / Test Item / Test Method / Item Number **Product** Range of Testing Technique Used 1 - COD Standard Methods for the Examination Water 40 mg/L to 2 000 mg/L of Water and Wastewater, APHA, (cont.) AWWA & WEF, 24th ed., 2023, part 5220 C In - house method: TE-19 - pH 4.0 to 9.0 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-H⁺B Standard Methods for the Examination - Turbidity 0.50 NTU to 1 000 NTU of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2130 B

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Scope of Testing Laboratory Accreditation

Laboratory Name : Laboratory of TEST TECH Co., Ltd.

Address : 30, 32 Rama 2 Soi 63, Rama 2 Road, Samaedam,

Bangkhunthian, Bangkok 10150

Accreditation Number : Testing - 0001

Laboratory Status		: $lacktriangledown$ Permanent \qed Site \qed	Temporary \square Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Conductivity	Standard Methods for the Examination
(cont.)		100 μS/cm to 5 000 μS/cm	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 2510 B
		- Cyanide	Standard Methods for the Examination
		0.005 mg/L to 0.200 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 4500-CN C and E
		- Cyanide	Standard Methods for the Examination
		0.005 mg/L to 0.200 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 4500-CN E

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Scope of Testing Laboratory Accreditation

Laboratory Name : Laboratory of TEST TECH Co., Ltd.

Address : 30, 32 Rama 2 Soi 63, Rama 2 Road, Samaedam,

Bangkhunthian, Bangkok 10150

Accreditation Number : Testing - 0001

Laborator	y Status	: ☑ Permanent ☐ Site ☐	Temporary \square Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Surfactant	Standard Methods for the Examination
(cont.)		(Calculated as LAS)	of Water and Wastewater, APHA,
		0.10 mg/L to 30.00 mg/L	AWWA & WEF, 24 th ed., 2023,
			part 5540 C
		- Color	Standard Methods for the Examination
		3.00 Pt-Co unit to 100 Pt-Co unit	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 2120 C
		- Cadmium	Standard Methods for the Examination
		0.10 mg/L to 1.00 mg/L	of Water and Wastewater, APHA,
		- Copper	AWWA & WEF, 24 th ed., 2023,
		0.10 mg/L to 4.00 mg/L	part 3111 B, 3030 E
		- Zinc	
		0.10 mg/L to 2.00 mg/L	

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Scope of Testing Laboratory Accreditation

Laboratory Name : Laboratory of TEST TECH Co., Ltd.

Address : 30, 32 Rama 2 Soi 63, Rama 2 Road, Samaedam,

Bangkhunthian, Bangkok 10150

Accreditation Number : Testing - 0001

Laboratory Status		: ☑ Permanent ☐ Site ☐	Temporary \square Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Manganese	Standard Methods for the Examination
(cont.)		0.10 mg/L to 2.00 mg/L	of Water and Wastewater, APHA,
		- Iron	AWWA & WEF, 24 th ed., 2023,
		0.10 mg/L to 2.00 mg/L	part 3111 B, 3030 E
		- Mercury	Standard Methods for the Examination
		0.0010 mg/L to 0.0500 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 3112 B
		- Arsenic	Standard Methods for the Examination
		0.0020 mg/L to 0.0300 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
		- Selenium	part 3114 C, B
		0.0005 mg/L to 0.0500 mg/L	

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Scope of Testing Laboratory Accreditation

: Laboratory of TEST TECH Co., Ltd. Laboratory Name

Address : 30, 32 Rama 2 Soi 63, Rama 2 Road, Samaedam,

Bangkhunthian, Bangkok 10150

: Testing - 0001 Accreditation Number

Laborato	y Status	: ☑ Permanent ☐ Site ☐	Temporary \square Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Barium	Standard Methods for the Examination
(cont.)		0.02 mg/L to 2.00 mg/L	of Water and Wastewater, APHA,
		- Cadmium	AWWA & WEF, 24 th ed., 2023,
		0.02 mg/L to 2.00 mg/L	part 3120 B, 3030 F
		- Total chromium	
		0.02 mg/L to 2.00 mg/L	
		- Copper	
		0.02 mg/L to 2.00 mg/L	
		- Manganese	
		0.02 mg/L to 2.00 mg/L	
		- Nickel	
		0.02 mg/L to 2.00 mg/L	
		- Lead	
		0.02 mg/L to 2.00 mg/L	

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Address : 30, 32 Rama 2 Soi 63, Rama 2 Road, Samaedam,

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Accreditation Number : Testing - 0001

: **☑** Permanent ☐ Temporary ☐ Site ☐ Mobile **Laboratory Status** Test Item / Test Method / Item Test Material / Number **Product** Range of Testing Technique Used ISO 11731 : 2017 1 Water - Legionella spp. (cont.) cfu/L Detected or not detected / L - Legionella pneumophila cfu/L Detected or not detected / L ISO 19250: 2010 - Salmonella spp. Detected or not detected / 100 mL - Staphylococcus aureus In - house method : TE-11 Detected or not detected / 100 mL based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9213 B

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Scope of Testing Laboratory Accreditation

Laboratory Name : Laboratory of TEST TECH Co., Ltd.

Address : 30, 32 Rama 2 Soi 63, Rama 2 Road, Samaedam,

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Accreditation Number : Testing - 0001

Laboratory Status		: ☑ Permanent ☐ Site ☐	Temporary \square Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Clostridium perfringens	Standing Committee of Analysts,
(cont.)		Detected or not detected / 100 mL	The Microbiology of Drinking Water,
			2021, part 6
		- Pseudomonas aeruginosa	Standard Methods for the Examination
		Detected or not detected / 100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 9213 E
		- Oil and Grease	Standard Methods for the Examination
		3.0 mg/L to 50.0 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 5520 D

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Scope of Testing Laboratory Accreditation

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Bangkhunthian, Bangkok 10150

Accreditation Number : Testing - 0001

Laboratory Status		: ☑ Permanent ☐ Site ☐	Temporary \square Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Oil and Grease	Standard Methods for the Examination
(cont.)		3.0 mg/L to 50.0 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 5520 B
		- Nitrate as Nitrogen	Standard Methods for the Examination
		0.05 mg/L to 10.00 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
		- Nitrate	part 4500-NO ₃ E
		0.22 mg/L to 44.3 mg/L	
		- Nitrite as Nitrogen	Standard Methods for the Examination
		0.02 mg/L to 3.00 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
		- Nitrite	part 4500-NO ₂ B
		0.07 mg/L to 10.00 mg/L	

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Accreditation Number : Testing - 0001

: **☑** Permanent ☐ Site ☐ Mobile ☐ Temporary **Laboratory Status** Test Item / Test Method / Item Test Material / Number **Product** Range of Testing Technique Used 1 Water - Total Kjeldahl Nitrogen Standard Methods for the Examination 2.0 mg/L to 200 mg/L of Water and Wastewater, APHA, (cont.) AWWA & WEF, 24th ed., 2023, part 4500-N_{org} B - Fluoride Standard Methods for the Examination 0.30 mg/L to 1.40 mg/L of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023. part 4500-F D - Fluoride Standard Methods for the Examination 0.30 mg/L to 5.00 mg/L of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-F C

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Scope of Testing Laboratory Accreditation

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Accreditation Number : Testing - 0001

Laborator	y Status	: ☑ Permanent ☐ Site ☐	Temporary \square Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- BOD	Standard Methods for the Examination
(cont.)		2.0 mg/L to 2 000 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 5210 B, part 4500–O G
		- BOD	Standard Methods for the Examination
		2.0 mg/L to 2 000 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 5210 B, part 4500-0 C
		- Sulfate	In – house Method : TE-34
		5.00 mg/L to 200 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 24 th ed., 2023,
			part 4500–SO ₄ ²⁻ E

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Scope of Testing Laboratory Accreditation

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Address : 30, 32 Rama 2 Soi 63, Rama 2 Road, Samaedam,

Bangkhunthian, Bangkok 10150

Accreditation Number : Testing - 0001

Laboratory Status		: \square Permanent \square Site \square	Temporary \square Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Silica	Standard Methods for the Examination
(cont.)		0.10 mg/L to 10.00 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 4500–SiO ₂ C
		- Iron	Standard Methods for the Examination
		0.10 mg/L to 1.50 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 3500–Fe B
		- Manganese	Standard Methods for the Examination
		0.04 mg/L to 2.00 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 3500–Mn B

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Scope of Testing Laboratory Accreditation

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Bangkhunthian, Bangkok 10150

Accreditation Number : Testing - 0001

Laboratory Status		: ☑ Permanent ☐ Site ☐	Temporary \square Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
2	Wastewater	- Total suspended solids	Standard Methods for the Examination
		dried from 103 ℃ to 105 ℃	of Water and Wastewater, APHA,
		20 mg/L to 5 000 mg/L	AWWA & WEF, 24 th ed., 2023,
			part 2540 D
		- Total dissolved solids	Standard Methods for the Examination
		dried at 180 ℃	of Water and Wastewater, APHA,
		25 mg/L to 8 000 mg/L	AWWA & WEF, 24 th ed., 2023,
			part 2540 C
		- Total dissolved solids	In - house method : TE-24
		dried from 103 °C to 105 °C	based on Standard Methods for the
		25 mg/L to 8 000 mg/L	Examination of Water and Wastewater,
			APHA, AWWA & WEF, 24 th ed., 2023,
			part 2540 C

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Scope of Testing Laboratory Accreditation

Laboratory Name : Laboratory of TEST TECH Co., Ltd.

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Accreditation Number : Testing - 0001

Laboratory Status		: ☑ Permanent ☐ Site ☐	Temporary \square Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
2	Wastewater	- COD	Standard Methods for the Examination
(cont.)		40 mg/L to 2 000 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 5220 C
		- pH	Standard Methods for the Examination
		4.0 to 9.0	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 4500-H [†] B
		- Turbidity	Standard Methods for the Examination
		0.50 NTU to 1 000 NTU	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 2130 B

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Accreditation Number : Testing - 0001

Laboratory Status		: ☑ Permanent ☐ Site ☐	Temporary \square Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
2	Wastewater	- Conductivity	Standard Methods for the Examination
(cont.)		100 μS/cm to 5 000 μS/cm	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 2510 B
		- Cyanide	Standard Methods for the Examination
		0.005 mg/L to 0.200 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 4500-CN C and E
		- Surfactant	Standard Methods for the Examination
		(Calculated as LAS)	of Water and Wastewater, APHA,
		0.10 mg/L to 30.00 mg/L	AWWA & WEF, 24 th ed., 2023,
			part 5540 C

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Accreditation Number : Testing - 0001

Laboratory Status		: ☑ Permanent ☐ Site ☐	Temporary \square Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
2	Wastewater	- Color	Standard Methods for the Examination
(cont.)		5 ADMI to 300 ADMI	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 2120 F
		- Cadmium	Standard Methods for the Examination
		0.10 mg/L to 1.00 mg/L	of Water and Wastewater, APHA,
		- Copper	AWWA & WEF, 24 th ed., 2023,
		0.10 mg/L to 4.00 mg/L	part 3111 B, 3030 E
		- Zinc	
		0.10 mg/L to 2.00 mg/L	
		- Manganese	
		0.10 mg/L to 2.00 mg/L	
		- Iron	
		0.10 mg/L to 2.00 mg/L	

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Laboratory Status		: ☑ Permanent ☐ Site ☐	Temporary \square Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
2	Wastewater	- Barium	Standard Methods for the Examination
(cont.)		0.02 mg/L to 2.00 mg/L	of Water and Wastewater, APHA,
		- Cadmium	AWWA & WEF, 24 th ed., 2023,
		0.02 mg/L to 2.00 mg/L	part 3120 B, 3030 F
		- Total chromium	
		0.02 mg/L to 2.00 mg/L	
		- Copper	
		0.02 mg/L to 2.00 mg/L	
		- Manganese	
		0.02 mg/L to 2.00 mg/L	
		- Nickel	
		0.02 mg/L to 2.00 mg/L	
		- Lead	
		0.02 mg/L to 2.00 mg/L	

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Laboratory Status		: ☑ Permanent ☐ Site ☐	Temporary \square Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
2	Wastewater	- Mercury	Standard Methods for the Examination
(cont.)		0.0010 mg/L to 0.0500 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 3112 B
		- Arsenic	Standard Methods for the Examination
		0.0020 mg/L to 0.0300 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
		- Selenium	part 3114 C, B
		0.0005 mg/L to 0.0500 mg/L	
		- Oil and Grease	Standard Methods for the Examination
		3.0 mg/L to 50.0 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 5520 D

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Bangkhunthian, Bangkok 10150

Accreditation Number : Testing - 0001

: **☑** Permanent ☐ Site ☐ Mobile ☐ Temporary **Laboratory Status** Test Item / Test Method / Test Material / Item Number **Product** Range of Testing Technique Used 2 Wastewater - Oil and Grease Standard Methods for the Examination 3.0 mg/L to 50.0 mg/L (cont.) of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B Standard Methods for the Examination - Nitrate as Nitrogen 0.05 mg/L to 10.00 mg/L of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO₃ E - Nitrate 0.22 mg/L to 44.3 mg/L Standard Methods for the Examination - Nitrite as Nitrogen 0.02 mg/L to 3.00 mg/L of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, - Nitrite part 4500-NO₂ B 0.07 mg/L to 10.00 mg/L

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Laboratory Status		: ☑ Permanent ☐ Site ☐	Temporary \square Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
2	Wastewater	- Total Kjeldahl Nitrogen	Standard Methods for the Examination
(cont.)		2.0 mg/L to 200 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 4500-N _{org} B
		- BOD	Standard Methods for the Examination
		2.0 mg/L to 2 000 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 5210 B, part 4500–O G
		- BOD	Standard Methods for the Examination
		2.0 mg/L to 2 000 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 5210 B, part 4500-O C

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Bangkhunthian, Bangkok 10150

Accreditation Number : Testing - 0001

: **☑** Permanent ☐ Site ☐ Temporary ☐ Mobile **Laboratory Status** Test Item / Test Method / Item Test Material / Number **Product** Range of Testing Technique Used 2 Wastewater - Fluoride Standard Methods for the Examination 0.30 mg/L to 1.40 mg/L of Water and Wastewater, APHA, (cont.) AWWA & WEF, 24th ed., 2023, part 4500-F D - Fluoride Standard Methods for the Examination 0.30 mg/L to 5.00 mg/L of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-F C 3 Swimming pool water Standard Methods for the Examination - Staphylococcus aureus Detected or not detected / 100 mL of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9213 B

Initial Issue Date 7th July 2004

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Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

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Scope of Testing Laboratory Accreditation

Laboratory Name : Laboratory of TEST TECH Co., Ltd.

Address : 30, 32 Rama 2 Soi 63, Rama 2 Road, Samaedam,

Bangkhunthian, Bangkok 10150

Accreditation Number : Testing - 0001

: **☑** Permanent ☐ Mobile ☐ Site ☐ Temporary **Laboratory Status** Test Item / Test Method / Item Test Material / Number **Product** Range of Testing Technique Used 3 Swimming pool water - Pseudomonas aeruginosa Standard Methods for the Examination Detected or not detected / 100 mL of Water and Wastewater, APHA, (cont.) AWWA & WEF, 24th ed., 2023, part 9213 E

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