

ภาคผนวกที่ 5
เอกสารสอบเทียบเครื่องมือตรวจวัด

ภาคผนวกที่ 5-1

เอกสารสอบเทียบเครื่องมือตรวจวัดคุณภาพน้ำทิ้ง



Ref No. : 0303/16972

CERTIFICATE OF TESTING LABORATORY ACCREDITATION

This is to certify that

Laboratory of HVE Co., Ltd.

*603 Soi Jarunsanitwong 46, Jarunsanitwong Road,
Bangyeekhan, Bang Phlat, Bangkok 10700*

has successfully undergone assessment according to ISO/IEC 17025 : 2017
and under the Bureau of Laboratory Accreditation, Department of Science Service
for the requirements, regulations and criteria for the competence of testing laboratories

LABORATORY ACCREDITATION
Accreditation Number TESTING - 0090
BLA-DSS

The scope of accreditation is as annexed hereto

Issue date : 26th November 2024

Expired date : 25th November 2028

Signature : *Chantararat Vorasapavit*
(Mrs. Chantararat Vorasapavit)

Director of Bureau of Laboratory Accreditation

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

Scope of Laboratory Accreditation

Laboratory Name : Laboratory of HVE Co., Ltd.

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Bangyeekhan, Bang Phlat, Bangkok 10700

Accreditation Number : Testing - 0090

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1	Water	<p>- pH 6.0 to 9.0</p> <p>- Copper 0.1 mg/L to 1.5 mg/L</p> <p>- Copper 0.03 mg/L to 0.5 mg/L</p>	<p>Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-H⁺ B</p> <p>Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3111 B, 3030 E</p> <p>Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 E</p>

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- Manganese 0.02 mg/L to 0.4 mg/L - Manganese 0.03 mg/L to 0.5 mg/L - Zinc 0.2 mg/L to 0.9 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3111 B, 3030 E Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B, 3030 E Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3111 B, 3030 E

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1 (cont.)	Water	- Zinc 0.03 mg/L to 0.5 mg/L - Mercury 2 µg/L to 8 µg/L - Aluminium 0.2 mg/L to 10 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B, 3030 E Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3112 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3111 D, 3030 E

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1 (cont.)	Water	- Aluminium 0.03 mg/L to 0.5 mg/L - Arsenic 2 µg/L to 10 µg/L - Arsenic 0.03 mg/L to 0.5 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B, 3030 E In – house method : WI-LA-049 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3114 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B, 3030 E

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1 (cont.)	Water	- Selenium 1 µg/L to 10 µg/L - Selenium 0.01 mg/L to 0.1 mg/L - Barium 0.2 mg/L to 1.5 mg/L	In – house method : WI-LA-050 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3114 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B, 3030 E Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3111 D, 3030 E

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1 (cont.)	Water	- Barium 0.03 mg/L to 0.5 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B, 3030 E
		- Cadmium 0.005 mg/L to 0.5 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3111 B, 3030 E
		- Cadmium 0.001 mg/L to 0.1 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B, 3030 E

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1 (cont.)	Water	- Chromium 0.05 mg/L to 0.9 mg/L - Chromium 0.03 mg/L to 0.5 mg/L - Iron 0.05 mg/L to 0.4 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3111 B, 3030 E Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B, 3030 E Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3111 B, 3030 E

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1 (cont.)	Water	- Iron 0.03 mg/L to 0.5 mg/L - Lead 0.02 mg/L to 0.09 mg/L - Lead 0.03 mg/L to 0.5 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B, 3030 E Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3113 B, 3030 E Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B, 3030 E

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1 (cont.)	Water	- Silver 0.02 mg/L to 0.45 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3111 B, 3030 E
		- Silver 0.03 mg/L to 0.5 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B, 3030 E
		- Cyanide 0.05 mg/L to 0.16 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-CN ⁻ C, E

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1 (cont.)	Water	- Turbidity 1 NTU to 800 NTU - Color 5 CU to 30 CU - Odor Odor or Odorless	In – house method : WI-LA-040 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2130 B In – house method : WI-LA-044 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2120 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2150 B

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- Phenol 1 µg/L to 150 µg/L - MBAS (Calculated as LAS) 0.16 mg/L to 0.3 mg/L - Total solids dried from 103 °C to 105 °C 85 mg/L to 500 mg/L	In – house method : WI-LA-045 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 5530 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 5540 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 B

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- Total hardness (Calculated as CaCO_3) 13 mg/L to 300 mg/L - Chloride 4.5 mg/L to 150 mg/L - Fluoride 0.15 mg/L to 1.6 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2340 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500- Cl^- B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500- F^- D

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- Nitrate 0.2 mg/L to 5 mg/L - Sulfate 8 mg/L to 40 mg/L - Total coliform MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-NO ₃ ⁻ E Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-SO ₄ ²⁻ E Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9221 B, C

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	<p>- <i>E. coli</i> Detected or not detected/100 mL</p> <p>- <i>Clostridium perfringens</i> Detected or not detected/100 mL</p> <p>- <i>Salmonella</i> spp. Detected or not detected/100 mL</p>	<p>Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, F</p> <p>Standing Committee of Analysts, Methods for the Examination of Waters and Associated Materials, The Microbiology of Drinking Water (2021), Part 6</p> <p>ISO 19250 : 2010</p>

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- <i>Staphylococcus aureus</i> Detected or not detected/100 mL	In – house method : WI-LA-508 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9213 B
2	Ice	- Chlorine (Calculated as Cl ₂) 0.29 mg/L to 1.0 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-Cl B
3	Wastewater	- pH 4.0 to 9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-H ⁺ B

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3 (cont.)	Wastewater	- Total suspended solids dried from 103 °C to 105 °C 23 mg/L to 100 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 D
		- Total dissolved solids dried at 180 °C 134 mg/L to 500 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 C
		- Total dissolved solids dried from 103 °C to 105 °C 132 mg/L to 500 mg/L	In – house method : WI-LA-026 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 C

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3 (cont.)	Wastewater	- Settleable solids 0.5 mL/L to 500 mL/L - Sulfide 0.6 mg/L to 2.0 mg/L - Total kjeldahl nitrogen 18 mg/L to 50 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 F Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-S ²⁻ F In – house method : WI-LA-012 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-N _{org} B

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3 (cont.)	Wastewater	- BOD 15 mg/L to 500 mg/L - Oil and grease 7 mg/L to 50 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 5210 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 5520 B

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3 (cont.)	Wastewater	Pesticide residues Organochlorine group : - α - BHC - Heptachlor - Heptachlor epoxide (Isomer A) - Heptachlor epoxide (Isomer B) - Endosulfan I - Endosulfan II - Aldrin - Dieldrin - Endrin - 4,4'-DDE - 4,4'-DDD Detected or not detected	In – house method : WI-LA-159 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 6630 B

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
3 (cont.)	Wastewater	Pesticide residues Carbamate group : - Aldicarb Sulfoxide - Aldicarb Sulfone - Oxamyl - Methomyl - 3-Hydroxy-Carbofuran - Aldicarb Detected or not detected	In – house method : WI-LA-158 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 6610 B

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3 (cont.)	Wastewater	Pesticide residues Carbamate group : - Propoxur - Carbofuran - Carbaryl - Naphthol - Methiocarb - BDMC Detected or not detected	In – house method : WI-LA-158 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 6610 B

Issue Date : 26th November 2024Signature : *Chantararat Vorasapavit*
(Mrs. Chantararat Vorasapavit)

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