Name of Laboratory : Laboratory of HVE Co., Ltd.

Address : 603 Soi Jarunsanitwong 46, Jarunsanitwong Road

Bangyeekhan, Bang phlat, Bangkok 10700

: Testing - 0090

Contact Person : Miss Thirawan Chuwongvan

Fax: 0-2883-4956

Phone: 0-2883-4956-7

E-mail: hv_eng@hotmail.com

: 18th September 2012 Initial Issue Date : 14th September 2023 Issue Date

: 21st November 2025 Expired date

Standard : ISO/IEC 17025:2017

Reference No. : 0303/15080

Accreditation Number

Scope of Laboratory Accreditation

Laboratory Name : Laboratory of HVE Co., Ltd.

Address : 603 Soi Jarunsanitwong 46, Jarunsanitwong Road,

Bangyeekhan, Bang Phlat, Bangkok 10700

Accreditation Number : Testing - 0090

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Laboratory	r Status : 🖭 Perma	anent 🗀 Site 🗀 Tempora	ary <u>u</u> Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- pH	In – house method : WI-LA-003
		6.0 to 9.0	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 4500-H ⁺ B
		- Copper	In – house method : WI-LA-036
		0.1 mg/L to 1.5 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3111 B, 3030 E
		- Copper	In – house method : WI-LA-160
		0.03 mg/L to 0.5 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3120 B, 3030 E

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Scope of Laboratory Accreditation

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Bangyeekhan, Bang Phlat, Bangkok 10700

Accreditation Number : Testing - 0090

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Manganese	In – house method : WI-LA-037
(cont.)		0.02 mg/L to 0.4 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3111 B, 3030 E
		- Manganese	In – house method : WI-LA-161
		0.03 mg/L to 0.5 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3120 B, 3030 E
		- Zinc	In – house method : WI-LA-038
		0.2 mg/L to 0.9 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3111 B, 3030 E

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Scope of Laboratory Accreditation

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Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Zinc	In – house method : WI-LA-162
(cont.)		0.03 mg/L to 0.5 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3120 B, 3030 E
		- Mercury	In – house method : WI-LA-042
		2 μ/L to 8 μ/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3112 B
		- Aluminium	In – house method : WI-LA-048
		0.2 mg/L to 10 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3111 D, 3030 E

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Scope of Laboratory Accreditation

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Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

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Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Aluminium	In – house method : WI-LA-164
(cont.)		0.03 mg/L to 0.5 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3120 B, 3030 E
		- Arsenic	In – house method : WI-LA-049
		2 μg/L to 10 μg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3114 C
		- Arsenic	In – house method : WI-LA-165
		0.03 mg/L to 0.5 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3120 B, 3030 E

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Scope of Laboratory Accreditation

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Accreditation Number : Testing - 0090

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Laboratory	r Status : 🖭 Perma	anent 🗀 Site 🗀 Lempor	ary <u>u</u> Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Selenium	In – house method : WI-LA-050
(cont.)		1 μg/L to 10 μg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3114 C
		- Selenium	In – house method : WI-LA-166
		0.01 mg/L to 0.1 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3120 B, 3030 E
		- Barium	In – house method : WI-LA-051
		0.2 mg/L to 1.5 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3111 D, 3030 E

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Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

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Item	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
1	Water	- Barium	In – house method : WI-LA-167	
(cont.)		0.03 mg/L to 0.5 mg/L	based on Standard Methods for the	
			Examination of Water and Wastewater,	
			APHA, AWWA & WEF, 23 rd ed., 2017,	
			part 3120 B, 3030 E	
		- Cadmium	In – house method : WI-LA-052	
		0.005 mg/L to 0.5 mg/L	based on Standard Methods for the	
			Examination of Water and Wastewater,	
			APHA, AWWA & WEF, 23 rd ed., 2017,	
			part 3111 B, 3030 E	
		- Cadmium	In – house method : WI-LA-168	
		0.001 mg/L to 0.1 mg/L	based on Standard Methods for the	
			Examination of Water and Wastewater,	
			APHA, AWWA & WEF, 23 rd ed., 2017,	
			part 3120 B, 3030 E	

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Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Chromium	In – house method : WI-LA-053
(cont.)		0.05 mg/L to 0.9 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3111 B, 3030 E
		- Chromium	In – house method : WI-LA-169
		0.03 mg/L to 0.5 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3120 B, 3030 E
		- Iron	In – house method : WI-LA-054
		0.05 mg/L to 0.4 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3111 B, 3030 E

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Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Iron	In – house method : WI-LA-170
(cont.)		0.03 mg/L to 0.5 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3120 B, 3030 E
		- Lead	In – house method : WI-LA-055
		0.02 mg/L to 0.09 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3113 B, 3030 E
		- Lead	In – house method : WI-LA-171
		0.03 mg/L to 0.5 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3120 B, 3030 E

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Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

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Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Silver	In – house method : WI-LA-056
(cont.)		0.02 mg/L to 0.45 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3111 B, 3030 E
		- Silver	In – house method : WI-LA-172
		0.03 mg/L to 0.5 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3120 B, 3030 E
		- Cyanide	Standard Methods for the Examination
		0.05 mg/L to 0.16 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 4500-CN C, E

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Bangyeekhan, Bang Phlat, Bangkok 10700

Accreditation Number : Testing - 0090

Laboratory Status : $oxed{oldsymbol{\square}}$ Permanent $oxed{oxed}$ Site $oxed{oxed}$ Temporary $oxed{oxed}$ Mobile

	Laboratory states . In remarking In site . In remporary . In works			
Item	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
1	Water	- Turbidity	In – house method : WI-LA-040	
(cont.)		1 NTU to 800 NTU	based on Standard Methods for the	
			Examination of Water and Wastewater,	
			APHA, AWWA & WEF, 23 rd ed., 2017,	
			part 2130 B	
		- Color	In – house method : WI-LA-044	
		5 CU to 30 CU	based on Standard Methods for the	
			Examination of Water and Wastewater,	
			APHA, AWWA & WEF, 23 rd ed., 2017,	
			part 2120 C	
		- Odor	Standard Methods for the Examination	
		Odor or Odorless	of Water and Wastewater, APHA,	
			AWWA & WEF, 23 rd ed., 2017,	
			part 2150 B	

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Accreditation Number : Testing - 0090

Laboratory Status : $oxed{oldsymbol{\square}}$ Permanent $oxed{oxed}$ Site $oxed{oxed}$ Temporary $oxed{oxed}$ Mobile

Laboratory States			
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Phenol	In – house method : WI-LA-045
(cont.)		1 μg/L to 150 μg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 5530 C
		- MBAS	Standard Methods for the Examination
		(Calculated as LAS)	of Water and Wastewater, APHA,
		0.16 mg/L to 0.3 mg/L	AWWA & WEF, 23 rd ed., 2017,
			part 5540 C
		- Total solids	Standard Methods for the Examination
		dried from 103 °C to 105 °C	of Water and Wastewater, APHA,
		85 mg/L to 500 mg/L	AWWA & WEF, 23 rd ed., 2017,
			part 2540 B

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Accreditation Number : Testing - 0090

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Laboratory	r Status : 🖭 Permi	anent 🗀 Site 🗀 Tempor	ary <u>u</u> Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Total hardness	Standard Methods for the Examination
(cont.)		(Calculated as CaCO ₃)	of Water and Wastewater, APHA,
		17 mg/L to 300 mg/L	AWWA & WEF, 23 rd ed., 2017,
			part 2340 C
		- Chloride	Standard Methods for the Examination
		4.5 mg/L to 150 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 4500-Cl ⁻ B
		- Fluoride	Standard Methods for the Examination
		0.15 mg/L to 1.6 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 4500-F ⁻ D

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Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Nitrate	Standard Methods for the Examination
(cont.)		0.2 mg/L to 5 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 4500-NO ₃ E
		- Sulfate	Standard Methods for the Examination
		8 mg/L to 40 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 4500-SO ₄ ²⁻ E
		- Total coliform	Standard Methods for the Examination
		MPN/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 23rd ed., 2017,
			part 9221 B, C

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Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Laboratory	Laboratory Status . De Permanent De Site De Temporary De Mobile			
ltem	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
1	Water	- E. coli	Standard Methods for the Examination	
(cont.)		Detected or not detected/100 mL	of Water and Wastewater, APHA,	
			AWWA & WEF, 23 rd ed., 2017,	
			part 9221 B, F	
		- Clostridium perfringens	Standing Committee of Analysts,	
		Detected or not detected/100 mL	Methods for the Examination of	
			Waters and Associated Materials,	
			The Microbiology of Drinking Water	
			(2021), Part 6	
		- Salmonella spp.	ISO 19250 : 2010	
		Detected or not detected/100 mL		

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Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Staphylococcus aureus	In – house method : WI-LA-508
(cont.)		Detected or not detected/100 mL	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 9213 B
2	Ice	- Chlorine	Standard Methods for the Examination
		(Calculated as Cl ₂)	of Water and Wastewater, APHA,
		0.29 mg/L to 1.0 mg/L	AWWA & WEF, 23 rd ed., 2017,
			part 4500-Cl B
3	Wastewater	- pH	In – house method : WI-LA-003
		4.0 to 9.0	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 4500-H [†] B

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Laboratory Status : lacktriangledown Permanent \Box Site \Box Temporary \Box Mobile

Laboratory Status : Permanent Li Site Li Temporary Li Mobile			
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
3	Wastewater	Pesticide residues	In – house method : WI-LA-159
(cont.)		Organochlorine group :	based on Standard Methods for the
		- α - BHC	Examination of Water and Wastewater,
		- Heptachlor	APHA, AWWA & WEF, 23 rd ed., 2017,
		- Heptachlor epoxide (Isomer A)	part 6630 B
		- Heptachlor epoxide (Isomer B)	
		- Endosulfan I	
		- Endosulfan II	
		- Aldrin	
		- Dieldrin	
		- Endrin	
		- 4,4'-DDE	
		- 4,4'-DDD	
		Detected or not detected	

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Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

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ltem	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
3	Wastewater	Pesticide residues	In – house method : WI-LA-159	
(cont.)		Pyrethroid group :	based on Standard Methods for the	
		- Bifenthrin	Examination of Water and Wastewater,	
		- Lambda-Cyhalothrin	APHA, AWWA & WEF, 23 rd ed., 2017,	
		- Permethrin	part 6630 B	
		- Cyfluthrin		
		- Cypermethrin		
		- Esfenvalerate		
		- Deltamethrin		
		Detected or not detected		
		Organophosphorus group :	In – house method : WI-LA- 159	
		- Chlorthiophos	based on EPA method 8141B (2007)	
		- Chlorpyrifos	Revision 2	
		- Profenofos		
		- Ethion		
		- EPN		
		Detected or not detected		

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Laboratory Status . E. Permanent L. Site L. Temporary L. Mobile			
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
3	Wastewater	Pesticide residues	In – house method : WI-LA-158
(cont.)		Carbamate group :	based on Standard Methods for the
		- Aldicarb Sulfoxide	Examination of Water and Wastewater,
		- Aldicarb Sulfone	APHA, AWWA & WEF, 23 rd ed., 2017,
		- Oxamyl	part 6610 B
		- Methomyl	
		- 3-Hydroxy-Carbofuran	
		- Aldicarb	
		Detected or not detected	

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ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
3	Wastewater	Pesticide residues	In – house method : WI-LA-158
(cont.)		Carbamate group :	based on Standard Methods for the
		- Propoxur	Examination of Water and Wastewater,
		- Carbofuran	APHA, AWWA & WEF, 23 rd ed., 2017,
		- Carbaryl	part 6610 B
		- Naphthol	
		- Methiocarb	
		- BDMC	
		Detected or not detected	

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