

Name of Laboratory : Laboratory of HVE Co., Ltd.  
Address : 603 Soi Jarunsanitwong 46, Jarunsanitwong Road  
Bangyeekhan, Bang phlat, Bangkok 10700  
Accreditation Number : Testing – 0090  
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Initial Issue Date : 18<sup>th</sup> September 2012  
Issue Date : 14<sup>th</sup> September 2023  
Expired date : 21<sup>st</sup> November 2025  
Standard : ISO/IEC 17025:2017  
Reference No. : 0303/15080

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Laboratory Status :  Permanent  Site  Temporary  Mobile

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

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

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

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

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1 (cont.)	Water	- Selenium 1 µg/L to 10 µg/L	In – house method : WI-LA-050 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 3114 C
		- Selenium 0.01 mg/L to 0.1 mg/L	In – house method : WI-LA-166 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 3120 B, 3030 E
		- Barium 0.2 mg/L to 1.5 mg/L	In – house method : WI-LA-051 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 3111 D, 3030 E

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

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

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

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1 (cont.)	Water	- Silver 0.02 mg/L to 0.45 mg/L	In – house method : WI-LA-056 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 3111 B, 3030 E
		- Silver 0.03 mg/L to 0.5 mg/L	In – house method : WI-LA-172 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, 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, 23 <sup>rd</sup> ed., 2017, part 4500-CN <sup>-</sup> 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, 23 <sup>rd</sup> ed., 2017, part 2130 B  In – house method : WI-LA-044 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 2120 C  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 2150 B

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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, 23 <sup>rd</sup> ed., 2017, part 5530 C  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 5540 C  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, 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 <sub>3</sub> ) 17 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, 23 <sup>rd</sup> ed., 2017, part 2340 C  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 4500-Cl <sup>-</sup> B  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 4500-F <sup>-</sup> D

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1 (cont.)	Water	- Nitrate 0.2 mg/L to 5 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 4500-NO <sub>3</sub> <sup>-</sup> E
		- Sulfate 8 mg/L to 40 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 4500-SO <sub>4</sub> <sup>2-</sup> E
		- Total coliform MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 9221 B, C

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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 &amp; WEF, 23<sup>rd</sup> ed., 2017, 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, 23 <sup>rd</sup> ed., 2017, part 9213 B
2	Ice	- Chlorine (Calculated as Cl <sub>2</sub> )  0.29 mg/L to 1.0 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 4500-Cl B
3	Wastewater	- pH  4.0 to 9.0	In – house method : WI-LA-003  based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 4500-H <sup>+</sup> B

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3 (cont.)	Wastewater	Pesticide residues Organochlorine group : - $\alpha$ - 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, 23 <sup>rd</sup> ed., 2017, part 6630 B

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

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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, 23 <sup>rd</sup> ed., 2017, 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, 23 <sup>rd</sup> ed., 2017, part 6610 B

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