

Name of Laboratory : The laboratory of Saha Farms Co., Ltd. (Lopburi) Section water quality testing
Address : 99 Moo 8, Tambon Huayhin, Amphoe Chai Badan,
Changwat Lop Buri 15130
Accreditation Number : Testing – 0091
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Initial Issue Date : 18th September 2012
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Standard : ISO/IEC 17025:2017
Reference No. : 0303/9837

Scope of Laboratory Accreditation

Laboratory Name : The laboratory of Saha Farms Co., Ltd. (Lopburi) Section water quality testing

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Accreditation Number : Testing - 0091

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>- Chloride 10 mg/L to 500 mg/L</p> <p>- Total hardness (Calculated as CaCO₃) 5 mg/L to 500 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>In – house method : TMLCH 010-1 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl⁻ B</p> <p>Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2340 C</p>

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1 (cont.)	Water	- Sulfate 10 mg/L to 500 mg/L	In – house method : TMLCH 012-1 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-SO ₄ ²⁻ E
		- Iron 0.2 mg/L to 2.0 mg/L	In – house method : TMLCH 013-1 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3500-Fe B
		- Total solids dried from 103 °C to 105 °C 10 mg/L to 600 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 B

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2	Wastewater	<p>- pH 4.0 to 9.0</p> <p>- Total suspended solids dried from 103 °C to 105 °C 20 mg/L to 2 000 mg/L</p> <p>- Total dissolved solids dried at 180 °C 110 mg/L to 5 000 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 2540 D</p> <p>Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C</p>

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2 (cont.)	Wastewater	- COD 60 mg/L to 2 500 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 5220 C
3	Effluent water	- pH 4.0 to 9.0 - Total suspended solids dried from 103 °C to 105 °C 20 mg/L to 2 000 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-H ⁺ B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 D

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3 (cont.)	Effluent water	- Total dissolved solids dried at 180 °C 110 mg/L to 5 000 mg/L - COD 60 mg/L to 380 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 5220 C

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