

Name of Laboratory : Laboratory of S.P.S. Consulting Service Company Limited
Address : 7 Soi Phahon Yothin 24, Phahon Yothin Road, Jompol,
Chatuchak, Bangkok 10900
Accreditation Number : Testing – 0054
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Initial Issue Date : 22nd June 2010
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Standard : ISO/IEC 17025:2017
Reference No. : 0303/14623

Scope of Testing Laboratory Accreditation

Laboratory Name : Laboratory of S.P.S. Consulting Service Company Limited

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Chatuchak, Bangkok 10900

Accreditation Number : Testing - 0054

Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1	Water	- COD 40 mg/L to 400 mg/L - COD 10 mg/L to 50 mg/L - Total solids dried at 103 °C to 105 °C 10 mg/L to 10 000 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5220 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5220 B In - house method : T04 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd 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	- Sulfate 5 mg/L to 200 mg/L	In - house method : T05 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - SO ₄ ²⁻ E
		- Ammonia nitrogen 0.40 mg/L to 100 mg/L	In - house method : T19 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - NH ₃ C
		- Phosphate 0.04 mg/L to 10 mg/L	In - house method : T24 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - P E

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1 (cont.)	Water	- Total phosphorus 0.01 mg/L to 3.27 mg/L	In - house method : T24 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - P E
		- Color 5 ADMI to 500 ADMI	In - house method : T130 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2120 F
		- Mercury 0.001 mg/L to 0.05 mg/L	In - house method : T34 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3112 B

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2	Wastewater	- COD 40 mg/L to 400 mg/L - COD 10 mg/L to 50 mg/L - Total solids dried at 103 °C to 105 °C 10 mg/L to 10 000 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5220 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5220 B In - house method : T04 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 B

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2 (cont.)	Wastewater	- Sulfate 5 mg/L to 200 mg/L - Ammonia nitrogen 0.40 mg/L to 100 mg/L - Phosphate 0.04 mg/L ถึง 10 mg/L	In - house method : T05 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - SO ₄ ²⁻ E In - house method : T19 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - NH ₃ C In - house method : T24 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - P E

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2 (cont.)	Wastewater	- Total phosphorus 0.01 mg/L to 3.27 mg/L - Color 5 ADMI to 500 ADMI - Mercury 0.001 mg/L to 0.05 mg/L	In - house method : T24 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - P E In - house method : T130 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2120 F In - house method : T34 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3112 B

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3	Seawater	- Total Petroleum Hydrocarbons 0.05 µg/L to 20 µg/L	In - house method : T87 based on Method of Seawater Analysis, 3 rd ed., 1998, page 467-477
4	Air - Workplace air	- Benzene 0.14 µg/tube to 503 µg/tube - Ethylbenzene 0.14 µg/tube to 504 µg/tube - Toluene 0.14 µg/tube to 502 µg/tube - <i>o</i> -Xylene 0.14 µg/tube to 504 µg/tube - <i>m</i> -Xylene 0.14 µg/tube to 501 µg/tube - <i>p</i> -Xylene 0.14 µg/tube to 500 µg/tube	In - house method : TWA039 based on NIOSH Manual of Analytical Methods (NMAM), 4 th ed., March 2003, method 1501 (Exclude sampling)

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4	Air - Emission from stationary sources	- Total suspended particulate 2 mg/filter to 2 000 mg/filter - Sulfur dioxide 5 mg/L to 1 200 mg/L	In - house method : T-WI 105 based on United States Environmental Protection Agency, 2000, Method 5, (Exclude sampling) In - house method : T-WI 106 based on United States Environmental Protection Agency, 2000, Method 6, (Exclude sampling)
5	Environmental noise	- Sound level $L_{eq,T}$ 30 dB (A) to 120 dB (A) L_{max} 30 dB (A) to 120 dB (A)	In - house method : W913 based on ISO 1996-1 : 2016

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6	Workplace noise	- Sound level $L_{eq,T}$ 30 dB (A) to 120 dB (A) L_{max} 30 dB (A) to 120 dB (A)	In - house method : W914 based on ISO 11202 : 2010

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