

Name of Laboratory : Indorama Petrochem Co., Ltd. Laboratory
Address : 4 Moo 2, Asia Industrial Estate, Tambon Banchang,
Amphoe Banchang, Changwat Rayong 21130
Accreditation Number : Testing - 0117
Contact Person : Mr. Punya Jantornkhajornrat
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Initial Issue Date : 26th January 2015
Issue Date : 7th March 2024
Expired date : 6th March 2028
Standard : ISO/IEC 17025:2017
Reference No. : 0303/3469

Scope of Testing Laboratory Accreditation

Laboratory Name : Indorama Petrochem Co.Ltd. Laboratory

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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	Wastewater	<p>- pH 4.0 to 10.0</p> <p>- Total suspended solids dried at 103 °C to 105 °C 10 mg/L to 10 000 mg/L</p> <p>- Total dissolved solids dried at 180 °C 50 mg/L to 20 000 mg/L</p>	<p>In - house method : IRPL-WI-QCD-004(E) based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-H⁺ B</p> <p>Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D</p> <p>Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C</p>

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1 (cont.)	Wastewater	- COD (ST-COD) 30 mg/L to 10 000 mg/L	In - house method : IRPL-WI-QCD-012 based on ISO 15705 : 2002, Annex D
2	Terephthalic acid	- Acid number 673 mg KOH/g to 677 mg KOH/g - Moisture 0.10 % to 1.0 % - 4-Carboxybenzaldehyde 5 mg/L to 40 mg/L - p-Toluic acids 60 mg/L to 320 mg/L	In - house method : IRPL-WI-QCD-101 based on ASTM D8031-16 ASTM E203-16 ASTM D7882-13 ASTM D7882-13

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2 (cont.)	Terephthalic acid	- Colour 1.0 Hazen unit to 15.0 Hazen unit	ASTM D5386-16
		- b* value 0.40 to 1.20	ASTM E1347-06 (Reapproved 2015)
		- Millipore 0.10 to 0.99	ASTM E1331-15
		- Millipore by reflectance 0.10 to 0.99	In - house method : IRPL-WI-QCD-102 based on ASTM E1331-15
		- Ash 4.0 mg/kg to 10.0 mg/kg	ISO 3451-1

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2 (cont.)	Terephthalic acid	<ul style="list-style-type: none"> - Cobalt - Chromium - Molybdenum - Manganese - Nickel - Titanium 0.05 mg/kg to 4.00 mg/kg	In - house method : IRPL-WI-QCD-123(E) based on Inductive coupled plasma technique
		<ul style="list-style-type: none"> - Median particle size 50 µm to 125 µm	ISO 13320-1
		<ul style="list-style-type: none"> - Appearance Color, suspended solids	In - house method : IRPL-WI-QCD-001(E) based on ASTM E1347-06 (Reapproved 2015)

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