Name of Laboratory : Laboratory of The Center for Scientific and Technological Equipment, Suranaree University of Technology

: 111 University Avenue, Tambon Suranaree, Amphoe Mueang, Address

Changwat Nakhon Ratchasima 30000

Accreditation Number: Testing - 0023

Contact Person : Mr. Arwut Intarachuen

Phone: 0-4422-3263

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: 10th July 2008 Initial Issue Date

Issue Date

Expired date

: 7th March 2024

: 6th March 2028

Standard : ISO/IEC 17025:2017

Reference No. : 0303/3472

Scope of Laboratory Accreditation

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Suranaree University of Technology

Address : 111 University Avenue, Tambon Suranaree, Amphoe Mueang,

Changwat Nakhon Ratchasima 30000

Accreditation Number : Testing - 0023

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

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Total hardness	Standard Methods for the Examination
		(Calculated as CaCO ₃)	of Water and Wastewater, APHA,
		5 mg/L to 1 000 mg/L	AWWA & WEF, 24 th ed., 2023,
			part 2340 C
		- рН	In - house method : TE-504-01-08
		6.0 to 10.0	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 24 th ed., 2023,
			part 4500-H ⁺ B
		- COD	In - house method : TE-504-01-11
		5 mg/L to 500 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 24 th ed., 2023,
			part 5220 B

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Scope of Laboratory Accreditation

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Suranaree University of Technology

Address : 111 University Avenue, Tambon Suranaree, Amphoe Mueang,

Changwat Nakhon Ratchasima 30000

Accreditation Number : Testing - 0023

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	- Arsenic	In - house method : TE-504-01-02	
(cont.)		0.001 mg/L to 0.050 mg/L	based on Standard Methods for the	
		- Cadmium	Examination of Water and Wastewater,	
		0.001 mg/L to 0.050 mg/L	APHA, AWWA & WEF, 24 th ed., 2023,	
		- Lead	part 3125 B	
		0.004 mg/L to 0.050 mg/L		
		- Manganese		
		0.004 mg/L to 0.050 mg/L		
		- Total coliforms	Standard Methods for the Examination	
		MPN/100 mL	of Water and Wastewater, APHA,	
		WEIW 100 HIL	AWWA & WEF, 24 th ed., 2023,	
		- E. coli	AWWA & WEF, 24 ed., 2023, part 9223 B	
		- <i>E. Coli</i> MPN/100 mL	part 9223 b	
		INITIN TOO THE		
		- Salmonella spp.	AOAC Official Methods of Analysis,	
		Detected or not detected/100 mL	22 nd ed., 2023, method 2016.01	

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Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

	Laboratory Status : Le Fermanient Le Site Le remporary Le Mobile				
Item	Test Material /	Test Item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
2	Wastewater	- рН	In - house method : TE-504-01-08		
		4.0 to 10.0	based on Standard Methods for the		
			Examination of Water and Wastewater,		
			APHA, AWWA & WEF, 24 th ed., 2023,		
			part 4500-H ⁺ B		
		COD	In house mosthed TF FO4 O1 11		
		- COD	In - house method : TE-504-01-11		
		50 mg/L to 500 mg/L	based on Standard Methods for the		
			Examination of Water and Wastewater,		
			APHA, AWWA & WEF, 24 th ed., 2023,		
			part 5220 B		
3	Concrete				
			TIS 100 0010		
	- Cube concrete	- Compressive strength	TIS 409 : 2019		
	specimens	Load range 200 kN to 1 800 kN	exclude item 2.1, 3.2, 3.3 and 3.4		

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Item	Test Material /	Test item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
4	Steel bars for			
	reinforced concrete			
	- Round bars	- Tensile strength	TIS 20-2016	
		- Yield strength	Refer to TIS 244 part 4-1982	
		- Elongation		
		Load range 40 kN to 220 kN		
	- Deformed bars	- Tensile strength	TIS 24-2016	
		- Yield strength	Refer to TIS 244 part 4-1982	
		- Elongation		
		Load range 40 kN to 220 kN		

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Item	Test Material /	Test item /	Test Method /
Number	Product	Range of Testing	Technique Used
5	Aquatic animals and	- Arsenic	In - house method : TE-504-01-06
	products	0.10 mg/kg to 6.25 mg/kg	based on AOAC Official Methods
	- Freshwater fish	- Lead	of Analysis, 22 nd ed., 2023,
	- Freshwater shrimp	0.10 mg/kg to 6.25 mg/kg	method 2013.06
	- Seawater fish	- Copper	
	- Canned products	0.30 mg/kg to 6.25 mg/kg	
		- Mercury	
		0.03 mg/kg to 6.25 mg/kg	
6	Feed	- Moisture	AOAC Methods of Analysis,
		3.0 g/100 g to 23.0 g/100 g	22 nd ed., 2023, method 930.15
		- Ash	AOAC Methods of Analysis,
		6.5 g/100 g to 18.0 g/100 g	22 nd ed., 2023, method 942.05

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Item	Test Material /	Test item /	Test Method /
Number	Product	Range of Testing	Technique Used
7	Foods		
	- Starch and products	- Moisture	In - house method : TE-504-01-57
	- Instant noodle	2.5 g/100 g to 18.7 g/100 g	based on AOAC Methods of Analysis,
	- Instant rice porridge		22 nd ed., 2023, method 925.10
	- Powdered chlorophyll	- Water activity	In - house method : TE-504-01-56
	- Powdered milk	0.30 to 0.90	based on AOAC Methods of Analysis,
	- Starch		22 nd ed., 2023, method 978.18
	- Chilli paste		
	- Dipping sauce		

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