Name of Laboratory : C.E.M. Technology (Thailand) Co., Ltd.

Address : 219/43 Moo 12, Petchkasem Road., Tambon Omnoi, Amphoe Kathum Baen, Changwat Samut Sakhon 74130

Accreditation Number: Testing - 0169

Contact Person : Mr. Apichat sae-laung

Phone: 02-441-7147-58

Fax: 02-441-7176

E-mail: cemtechnology@outlook.co.th : 20th June 2018

: 28th September 2022 Issue Date

Initial Issue Date

: 24th January 2025 Expired date

Standard : ISO/IEC 17025:2017

Reference No. : 0303/14622

Scope of Testing Laboratory Accreditation

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Amphoe Kathum Baen, Changwat Samut Sakhon 74130

Accreditation Number : Testing - 0169

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Laboratory Status : Let Permanent Let Site Let Temporary Let Mobile			
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Air	- Total suspended particulate	In – house method : WP-AP-01
	- Ambient air	10 mg/filter to 1 000 mg/filter	based on U.S. Environmental
			ProtectionAgency 40 CFR, method 50,
			Appendix B (Exclude sampling)
		- Particulate matter (PM-10)	In – house method : WP-AP-02
		3 mg/filter to 800 mg/filter	based on U.S. Environmental
			ProtectionAgency 40 CFR, method 50,
			Appendix J (Exclude sampling)

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Scope of Testing Laboratory Accreditation

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Accreditation Number : Testing - 0169

Laboratory Status : $oxed{oldsymbol{arDelta}}$ Permanent $oxed{oldsymbol{arDelta}}$ Site $oxed{oxed}$ Temporary $oxed{oxed}$ Mobile

ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
2	Noise in ambient and	- Equivalent sound level	In - house method : WP-AP-20
	indoor environment	L _{eq,1 hr.} , L _{eq,24 hr.}	based on notification of National
		35 dB (A) to 120 dB (A)	Environment Board Issue 15
		- Maximum sound level	
		L _{max,1 hr.} , L _{max,24 hr.}	
		35 dB (A) to 120 dB (A)	
		- Minimum sound level	
		L min,1 hr., L min,24 hr.	
		35 dB (A) to 120 dB (A)	
		- Percentile level 90	
		L _{90,1 hr.} , L _{90,24 hr.}	
		35 dB (A) to 120 dB (A)	

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Accreditation Number : Testing - 0169

Laboratory Status : Permanent Site Temporary Mobile

Laboratory Status : Let Permanent Let Site Let Temporary Let Mobile			
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
3	Annoyance noise	- Sound level	In - house method : WP-AP-21
		L _{eq,T}	based on notification of Pollution
		35 dB (A) to 120 dB (A)	Control Committee
		- Noise level without annoyance	
		L _{eq,T}	
		35 dB (A) to 120 dB (A)	
		- Sound basic level	
		L _{90,T}	
		35 dB (A) to 120 dB (A)	
		- Annoyance level value	
		0 dB (A) to 85 dB (A)	

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Accreditation Number : Testing - 0169

Laboratory Status : 🗹 Permanent 🗹 Site 🗆 Temporary 🗖 Mobile

Laborato	Laboratory Status . Le Fermanient Le Site Le Temporary Le Mobile			
Item	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
4	Noise in workplace	- Sound level	In - house method : WP-AP-22	
		L _{eq,T hr}	based on notification of Department	
		35 dB (A) to 120 dB (A)	of Labour Protection and Walfare	
		- Time weighted average		
		(TWA)		
		35 dB (A) to 120 dB (A)		
5	Heat	- Wet Bulb Globe Temperature	Notification of Department of Labour	
		Indoor (WBGT _{in})	Protection and Walfare Published in the	
		13.0 ℃ to 38.0 ℃	Royal Government Gazette, Volume 135	
			special part 57 D, date March 12 th , 2018	
		- Wet Bulb Globe Temperature		
		Outdoor (WBGT _{out})		
		27.0 ℃ to 34.0 ℃		

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Accreditation Number : Testing - 0169

Laborato	Laboratory Status . La Fermanent La Site La Temporary La Mobile				
Item	Test Material /	Test Item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
6	Water	- pH	In - house method : WP-WW-03		
		4.0 to 10.0	based on Standard Methods for the		
			Examination of Water and Wastewater,		
			APHA, AWWA & WEF, 23 rd ed., 2017,		
			part 4500 - H [†] B		
		- COD	In - house method : WP-WW-08		
		20 mg/L to 500 mg/L	based on Standard Methods for the		
			Examination of Water and Wastewater,		
			APHA, AWWA & WEF, 23 rd ed., 2017,		
			part 5220 D		
		- Cadmium	In - house method : WP-WW-01		
		0.20 mg/L to 4.00 mg/L	based on Standard Methods for the		
		- Copper	Examination of Water and Wastewater,		
		0.20 mg/L to 4.00 mg/L	APHA, AWWA & WEF, 23 rd ed., 2017,		
			part 3111 B		

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Accreditation Number : Testing - 0169

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

	Laboratory Status . D. Fermanent D. Site D. Femporary D. Mobile				
Item	Test Material /	Test Item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
6	Water	- Nickel	In - house method : WP-WW-01		
(cont.)		0.20 mg/L to 4.00 mg/L	based on Standard Methods for the		
		- Manganese	Examination of Water and Wastewater,		
		0.20 mg/L to 4.00 mg/L	APHA, AWWA & WEF, 23 rd ed., 2017,		
			part 3111 B		
		- Total dissolved solids	Standard Methods for the Examination		
		dried at 180 °C	of Water and Wastewater, APHA,		
		30 mg/L to 6 000 mg/L	AWWA & WEF, 23 rd ed., 2017,		
			part 2540 C		
		- Total suspended solids	Standard Methods for the Examination		
		dried at 103 °C to 105 °C	of Water and Wastewater, APHA,		
		10 mg/L to 1 000 mg/L	AWWA & WEF, 23 rd ed., 2017,		
			part 2540 D		

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Accreditation Number : Testing - 0169

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

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
7	Wastewater	- pH	In - house method : WP-WW-03
		4.0 to 10.0	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 4500 - H [†] B
		- COD	In - house method : WP-WW-08
		20 mg/L to 500 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 5220 D
		- Cadmium	In - house method : WP-WW-01
		0.20 mg/L to 4.00 mg/L	based on Standard Methods for the
		- Copper	Examination of Water and Wastewater,
		0.20 mg/L to 4.00 mg/L	APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3111 B
1			

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Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Laborato	Laboratory Status . Let remialient Let Site Let remporary Let Mobile			
Item	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
7	Wastewater	- Nickel	In - house method : WP-WW-01	
(cont.)		0.20 mg/L to 4.00 mg/L	based on Standard Methods for the	
		- Manganese	Examination of Water and Wastewater,	
		0.20 mg/L to 4.00 mg/L	APHA, AWWA & WEF, 23 rd ed., 2017,	
			part 3111 B	
		- Total dissolved solids	Standard Methods for the Examination	
		dried at 180 °C	of Water and Wastewater, APHA,	
		30 mg/L to 6 000 mg/L	AWWA & WEF, 23 rd ed., 2017,	
			part 2540 C	
		- Total suspended solids	Standard Methods for the Examination	
		dried at 103 °C to 105 °C	of Water and Wastewater, APHA,	
		10 mg/L to 1 000 mg/L	AWWA & WEF, 23 rd ed., 2017,	
			part 2540 D	

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Accreditation Number : Testing - 0169

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

- I remidden - I r			
: Method /			
nique Used			
d : WP-WW-16			
d Methods for the			
ater and Wastewater,			
/EF, 23 rd ed., 2017,			

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