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SCOPE OF LABORATORY ACCREDITATION

Certificate Ref No.: **PTCCB067/LA/2023/CERT16-1**

Initial Date of Granting	30/11/2023	**Grant Date of Current Cycle**	30/11/2023
Current Accreditation Cycle	**01**	**Expiration Date**	29/11/2027

PESTICIDES AND TOXIC CHEMICALS LABORATORY

NAREI Compound, Agriculture Road, Mon Repos, East Coast Demerara

FIELD: CHEMISTRY (PESTICIDES and FERTILISERS)

#	PRODUCT/ MATERIAL	TEST *(parameter/ characteristics)*	TEST METHOD	UNITS	LIMIT OF CAPABILITY
1	Pesticides Formulations	2,4- D	Determination of 2,4-D: QCU/LC/TM-704	%	1%
2		Acetamiprid	Determination of Acetamiprid: QCU/LC/TM-709	%	1%
3		Carbaryl	Determination of Carbaryl: QCU/LC/TM-712	%	1%
4		Imidacloprid	Determination of Imidacloprid: QCU/LC/TM-707	%	1%

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#	PRODUCT/ MATERIAL	TEST (parameter/ characteristics)	TEST METHOD	UNITS	LIMIT OF CAPABILITY
5	Pesticides Formulations	Fipronil	Determination of Fipronil: QCU/LC/TM-708	%	1%
6		Carbendazim	Determination of Carbendazim: QCU/LC/TM-710	%	1%
7		Asulam	Determination of Asulam: QCU/LC/TM-701	%	1%
8		Metsulfuron-methyl	Determination of Metsulfuron-methyl: QCU/LC/TM-703	%	1%
9		Hexazinone	Determination of Hexazinone: QCU/LC/TM-702	%	1%
10	Fertilizers	Phosphorus	Phosphorus Spectrophotometric Molybdovanadophosphate Method-QCU/F/TM-703	%	0.8
11		Potassium	Determination of Total Potassium by Flame Atomic Absorption Spectrometry Method-QCU/F/TM-702	%	4.8

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#	PRODUCT/ MATERIAL	TEST *(parameter/ characteristics)*	TEST METHOD	UNITS	LIMIT OF CAPABILITY	GRANT DATE
1	Fertiliser Formulations	Nitrogen	Determination of nitrogen by Total Organic Carbon Unit with nitrogen analyzer. (QCUFTM701)	%	0.0519	June 26, 2025
2		Cobalt	Determination of total cobalt by FAAS method (QCUFTM708)	%	0.0361	June 26, 2025
3		Copper	Determination of total copper by FAAS method (QCUFTM704)	%	0.0458	June 26, 2025
4		Magnesium	Determination of total magnesium by FAAS method (QCUFTM707)	%	0.0506	June 26, 2025
5		Manganese	Determination of total manganese by FAAS method (QCUFTM706)	%	0.0881	June 26, 2025
6		Zinc	Determination of total zinc by FAAS method (QCUFTM705)	%	0.0891	June 26, 2025
7		Calcium	Determination of total calcium by FAAS method (QCUFTM709)	%	0.0862	June 26, 2025
8	Pesticide Residues in Rice	Imidacloprid	Modified Quechers Extraction Technique and Triple Quadrupole LC-Ms/MS in HESI mode	mg/kg	0.0699	June 26, 2025
9		Thiamethoxam	Modified Quechers Extraction Technique and Triple Quadrupole LC-Ms/MS in HESI mode	mg/kg	0.0795	June 26, 2025

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10	Pesticide Residues in Rice	Acetamiprid	Modified Quechers Extraction Technique and Triple Quadrupole LC-Ms/MS in HESI mode	mg/kg	0.0540	June 26, 2025
11		Azoxystrobin	Modified Quechers Extraction Technique and Triple Quadrupole LC-Ms/MS in HESI mode	mg/kg	0.0555	June 26, 2025
12		Isoprothiolane	Modified Quechers Extraction Technique and Triple Quadrupole LC-Ms/MS in HESI mode	mg/kg	0.0911	June 26, 2025
13		Triazophos	Modified Quechers Extraction Technique and Triple Quadrupole LC-Ms/MS in HESI mode	mg/kg	0.0992	June 26, 2025
14		Diazinon	Modified Quechers Extraction Technique and Triple Quadrupole LC-Ms/MS in HESI mode	mg/kg	0.0652	June 26, 2025
15	Formulated Products	Diuron	Test Method of Formulated Product: Diuron (QCU/LC/TM-716)	%	0.285	June 26, 2025
16		Imazapyr	Test Method of Formulated Product: Imazapyr (QCU/LC/TM-713)	%	0.111	June 26, 2025
17		Bispyribac	Test Method of Formulated Product Bispyribac-Sodium (QCU/LC/TM-715)	%	0.085	June 26, 2025
18		Triazophos	Test Method of Formulated Product Triazophos (QCU/LC/TM-717)	%	0.207	June 26, 2025
19		Chlorpyrifos	Chlorpyrifos Modified AOAC Test Method (QCU/LC/-718)	%	0.110	June 26, 2025

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FIELD: CHEMISTRY (WATER ANALYSIS)

#	PRODUCT/ MATERIAL	TEST *(parameter/ characteristics)*	TEST METHOD	UNITS	LIMIT OF CAPABILITY	GRANT DATE
1	Water	pH (Hach Multimeter HQ440d)	QCU/W/TM-910	-	0-14	2026/08/10
2	Water	Nitrate-Nitrogen HR (H-8039)	QCU/W/TM-906	mg/L NO_3^--N	0.3-30	2026/08/10
3	Water	Nitrate-Nitrogen LR (H-8192)	QCU/W/TM-909	mg/L NO_3^--N	0.01-0.5	2026/08/10
4	Water	Chloride TNTplus879 (H-10291)	QCU/W/TM-901	mg/L Cl^-	1-1000	2026/08/10
5	Water	Turbidity (HACH Turbidity meter 2100Q)	QCU/W/TM-914	NTU	0-1000	2026/08/10
6	Water	Electrical Conductivity (EC) (Hach Multimeter HQ440d)	QCU/W/TM-902	µS/cm mS/cm	0.01 µS/cm to 200.0 mS/cm	2026/08/10
7	Water	Total Dissolved Solids (TDS) (Hach Multimeter HQ440d)	QCU/W/TM-902	mg/L	0-50,000	2026/08/10
8	Water	Total Chlorine (H-8167)	QCU/W/TM-911	mg/L Cl_2	0.02-2	2026/08/10
9	Water	Free Chlorine (H-8021)	QCU/W/TM-905	mg/L Cl_2	0.02-2	2026/08/10