Accreditation No: LAB 193

Awarded to

Agri Force Chemicals, Quality Control Laboratory, Plot Not. 217/218, Phase II, Industrial Estate-II, Multan, Pakistan.

The scope of accreditation is in accordance with the standard specifications outlined in the following page(s) of this document. The accredited scope shall be visible and legible in areas such as customer service, sample-receiving section etc and shall not mislead its users.

The accreditation was first time granted on **26-02-2020** by Pakistan National Accreditation Council.

The laboratory complies with the requirements of **ISO/IEC 17025:2017.**

The accreditation requires regular surveillance, and is valid until **25-02-2023.**

The decision of accreditation made by Pakistan National Accreditation Council implies that the organization has been found to fulfill the requirements for accreditation within the scope.

The organization however, itself is responsible for the results of performed measurements/tests.

PAKISTAN NATIONAL ACCREDITATION COUNCIL

08-03-2021
Date

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Director General

Testing Laboratory.

Accreditation Scope of **Agri Force Chemical, Quality Control Laboratory, Plot No. 217/218, Phase-II, Industrial Estate Phase-II, Multan, Pakistan.**

Permanent laboratory premises X

Materials/Products tested	Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured	Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference
Pesticides *(Finished/Formulated Products)* Acetamiprid, Imidacloprid, Fipronil,Pendimethalin, Pyriproxyfen, Lufeuron, Chlorpyrifos, Clodinofop Propagyl, Lambda Cyhalorthrin, Bifenthrin, Nitenpryam, Atrazine, Mesotrione, Chlorfenapyr, Diafenthuron, Triazophos **Fertilizers** *(Finished/Formulated Products)* Potash (K2O), Phosphorous (P2O5), Humic Acid, Nitrogen, Zinc (water Soluble)	Physical Testing	Quantitative determination of p H	Verified Method (SOP# 002) based on CIPAC, Hand book Volume-1C ,1982-84; Page,2028-2031
Pesticides *(Finished &Formulated EC,SL,EW & OD Products)* Acetamiprid, Imidacloprid, Fipronil,Pendimethalin, Pyriproxyfen, Lufeuron, Chlorpyrifos, Clodinofop Propagyl, Lambda Cyhalorthrin, Bifenthrin, Nitenpryam, Triazophos		Qualitative determination of Emulsion	Verified Method, based on CIPAC Volume F,MT 36, Page # 108, (SOP # 15)

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Director

Pesticides *(Finished/Formulated Products)* Acetamiprid, Imidacloprid, Fipronil,Pendimethalin, Pyriproxyfen, Lufeuron, Chlorpyrifos, Clodinofop Propagyl, Lambda Cyhalorthrin, Bifenthrin, Nitenpryam, Atrazine, Mesotrione, Chlorfenapyr, Diafenthuron, Triazophos **Fertilizers** *(Finished/Formulated Products)* Potash (K2O), Phosphorous (P2O5), Humic Acid, Nitrogen, Zinc (water Soluble),	Physical Testing	Quantitative determination of Density	Verified Method, based on CIPAC Volume F,MT 3, Page # 11-20, (SOP # 16) , (Hydrometric method)
Pesticides *(Finished &Formulated WP,SP,WDG,WG and SC Products)* Acetamiprid, Imidacloprid, Fipronil,Pyriproxyfen, Lufeuron, Chlorpyrifos, Clodinofop Propagyl, Lambda Cyhalorthrin, Bifenthrin, Nitenpryam, Atrazine, Mesotrione, Chlorfenapyr, Diafenthuron,		Quantitative determination of Suspension	Verified Method, based on CIPAC Volume F,MT 15, Page # 45, MT 184 (SOP # 17)
Potash (K2O) (Fertilizer Formulations & Technicals)	Fertilizers Chemical Testing	Quantitive determination of Potash (K2O) (Active Ingredient)	Verified Method for fertilizers, Famic 2013, Japan; Page # 166-172 (SOP # 013) (Flame Photometric Technique)
Phosphorus (P2O5) (Fertilizer Formulations & Technicals)		Quantitive determination of Phosphorus (P2O5) (Active Ingredient)	Verified Method for fertilizers, Famic 2013, Japan; Page # 166-172 (SOP # 013) (Titration Method)
Zinc (water Soluble) (Fertilizer Fertilizer Formulations & Technicals)		Quantitive determination of Zinc (water Soluble) (Active Ingredient)	Validated Method, based on Hach Kit Method # (8009) (AFC/QCL/SOP21) (Spectctrohotometric Techique)

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Humic Acid (Fertilizer Formulations & Technicals)	Pesticides Chemical Testing	Quantitive determination of Humic Acid (Active Ingredient)	Verified Methid, Gravimetric method for Humic acid test,(AFC/QCL/SOP20)
Nitrogen (Fertilizer Formulations & Technicals) (Uric/Ammonical/Total) (Formulations & Technicals)		Quantitive determination of Nitrogen (Active Ingredient)	Verified Method based on Official Methods of analysis of AOAC International,18th Edition. (AFC/QCL/SOP18)
Acetamiprid (Pesticides Formulations & Technicals)	Pesticides Chemical Testing	Quantitive determination of Acetamiprid (Active Ingredient)	Modified & Validated method based on CIPAC Handbook UK, Volume L,2006 , Page 5-12. (SOP # 004) (HPLC Technique)
Fipronil (Pesticides Formulations & Technicals)		Quantitive determination of Fipronil (Active Ingredient)	In-House developed and validated method (SOP # 005) (HPLC Technique)
Imidacloprid (Pesticides Formulations & Technicals)		Quantitive determination of Imidacloprid (Active Ingredient)	Modified & Validated method based on CIPAC Handbook UK, Volume K,2003 , Page 70-76. (SOP # 004) (HPLC Technique)
Pendimethalin (Pesticides Formulations & Technicals)		Quantitive determination of Pendimethalin (Active Ingredient)	Modified & Validated method based on CIPAC Handbook UK, Volume M,2009 , Page 148-154. (SOP # 002A) (HPLC Technique)
Pyriproxyfen (Pesticides Formulations & Technicals)		Quantitive determination of Pyriproxyfen (Active Ingredient)	Modified & Validated method based on CIPAC Handbook UK, Volume M,2009 , Page 180-188. (SOP # 003`) (HPLC Technique)
Lufenuron Formulations & Technicals)		Quantitive determination of Lufenuron (Active Ingredient)	In-House developed and validated method (SOP # 008) (HPLC Technique)
Clodinofop Propagyl (Pesticides Formulations & Technicals)		Quantitive determination of Clodinofop Propagyl (Active Ingredient)	In-House developed and validated method (SOP # 007) (HPLC Technique)
Chlorpyrifos (Pesticides Formulations & Technicals)		Quantitive determination of Chlorpyrifos (Active Ingredient)	Modified & Validated method based on CIPAC Handbook UK, Volume-1C,1982-84 , Page 2028-2031. (SOP # 002) (HPLC Technique)
Lambda Cyhalothrin (Pesticides Formulations & Technicals)		Quantitive determination of Lambda Cyhalothrin (Active Ingredient)	In-House developed & Validated method. (SOP # 022) (HPLC Technique)

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Bifenthrin Formulations & Technicals)	Pesticides Chemical Testing	Quantitive determination of Pyriproxyfen (Active Ingredient)	In-House developed & Validated method. (SOP # 023) (HPLC Technique)
Nitenpyram (Pesticides Formulations & Technicals)		Quantitive determination of Nitenpyram (Active Ingredient)	In-House developed & Validated method. (SOP # 024) (HPLC Technique)
Atrazine (Pesticides Formulations & Technicals)		Quantitive determination of Atrazine (Active Ingredient)	In-House developed & Validated method. (SOP # 025) (HPLC Technique)
Mesotrione (Pesticides Formulations & Technicals)		Quantitive determination of Mesotrione (Active Ingredient)	In-House developed & Validated method. (SOP # 026) (HPLC Technique)
Chlorfenapyr (Pesticides Formulations & Technicals)		Quantitive determination of Chlorfenapyr (Active Ingredient)	In-House developed & Validated method. (SOP # 027) (HPLC Technique)
Diafenthruon (Pesticides Formulations & Technicals)		Quantitive determination of Diafenthuron (Active Ingredient)	In-House developed & Validated method. (SOP # 028) (HPLC Technique)
Triazophos (Pesticides Formulations & Technicals)		Quantitive determination of Triazohphos (Active Ingredient)	In-House developed & Validated method. (SOP # 029) (HPLC Technique)
Carbofuran (Pesticides Formulations & Technicals)		Quantitive determination of Caroburan (Active Ingredient)	In-House developed & Validated method. (SOP # 030) (HPLC Technique)
Monomehypo (Pesticides Formulations & Technicals)		Quantitive determination of Monomehypo (Active Ingredient)	In-House developed & Validated method. (SOP # 031) (HPLC Technique)
Cartap HCl (Pesticides Formulations & Technicals)		Quantitive determination of Cartap HCl (Active Ingredient)	In-House developed & Validated method. (SOP # 032) (HPLC Technique)

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Director