

	ACCREDITATION DOCUMENT	F-06/02 Issue Date: 18/08/20 Rev. No: 09 LAB 190
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Accreditation No: LAB 190
Awarded to

Hexon, Quality Assurance Laboratory, Plot No. 10, Industrial Estate, Phase 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 **24-01-2020** 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 **23-01-2023**.

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

Director General



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Testing Laboratory.

Accreditation Scope of **Hexon, Quality Assurance Laboratory, Plot No. 10, Industrial Estate, Phase II, Multan-Pakistan.**

Permanent laboratory premises

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
<p>Pesticide <i>(Finished/Formulated Products)</i> Imidacloprid, Acetamiprid , Chlorpyrifos, Pyriproxyfen, Fipronil, Clodinofof propargyl, Lufenuron, Chlorfenapyr, Pendimethalin, Metolachlor, Bifenthrin, Diafenthiuron, Lambda Cyhalothrin, Buprofezin, Clothianidian, Azoxystrobin,</p> <p>Fertilizer <i>(Finished/Formulated Products)</i> Potash(K₂O), Phosphorous (P₂O₅),Sulfer, Nitrogen, Humic Acid, Iron (Fe), Zinc (Zn), Manganese (Mn)</p>	Physical Testing	Qualitative determination of p H	(HEXON/QAL/TM/014) Verified Method based on CIPAC Hand Book, Volume F, and Method No. MT75, Pg. 205 pH meter
<p>Pesticide <i>(Liquid Finished/Formulated Products)</i> Imidacloprid, Acetamiprid , Chlorpyrifos, Pyriproxyfen, Fipronil, Clodinofof propargyl, Lufenuron, Chlorfenapyr, Pendimethalin, Metolachlor, Bifenthrin, Diafenthiuron, Lambda Cyhalothrin, Buprofezin, Clothianidian, Azoxystrobin,</p> <p>Fertilizer <i>(Liquid Finished/Formulated Products)</i> Potash(K₂O), Phosphorous (P₂O₅),Sulfer, Nitrogen, Humic Acid, Iron (Fe), Zinc (Zn), Manganese (Mn)</p>		Qualitative determination of Density	(HEXON/QAL/TM/0012) Verified Method based on CIPAC Hand Book, Volume F, and Method No. MT3.3, Pg. 13 (Pyknometer method)
<p>Pesticides <i>(Finished & Formulated, WP, SP,</i></p>			

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<p>WDG/WG and SC Products) Imidacloprid, Acetamiprid , Chlorpyrifos, Pyriproxyfen, Fipronil, Clodinofof propargyl, Lufenuron, Chlorfenapyr, Pendimethalin, Metolachlor, Bifenthrin, Diafenthiuron, Lambda Cyhalothrin, Buprofezin, Clothianidian, Azoxystrobin</p>	<p style="text-align: center;">Physical Testing</p>	<p style="text-align: center;">Quantitative determination of Suspensibility</p>	<p style="text-align: center;">(HEXON/QAL/TM/0016) Verified Method based on CIPAC Hand Book, Volume k, and Method No. MT 184, Pg. 142-145 Gravimetric</p>
<p>Pesticides <i>(Finished & Formulated EC,SL,EW & OD Products)</i> Imidacloprid, Acetamiprid , Chlorpyrifos, Pyriproxyfen, Fipronil, Clodinofof propargyl, Lufenuron, Chlorfenapyr, Pendimethalin, Metolachlor, Bifenthrin, Diafenthiuron, Lambda Cyhalothrin, Buprofezin, Clothianidian, Azoxystrobin,</p>		<p style="text-align: center;">Qualitative determination of Emulsion</p>	<p style="text-align: center;">(HEXON/QAL/TM/013) Verified Method based on CIPAC Hand Book, Volume F, and Method No. MT 36, Pg. 108-114 Physical Appearance</p>
<p>Pesticide Formulation /Finished product & Technical (Solid & Liquid) (Imidacloprid, Acetamiprid, Chlorpyrifos, Pyriproxyfen, Fipronil, Clodinafof-Propargyl, Lufenuron, Chlorfenpyr, Pendimethalin, Metolachlor, Bifenthrin, Diafenthiuron, Lambda Cyhalothrin Buprofezin, Clothianidian, Azoxystrobin)</p>	<p style="text-align: center;">Chemical Testing of Pesticide</p>	<p>Quantitative determination of Imidacloprid (Active Ingredient)</p>	<p style="text-align: center;">(HEXON/QAL/TM/006) In-House Modified & validated Method Based on CIPAC Volume K , Page No. 70-72 (HPLC Technique)</p>
		<p>Quantitative determination of Acetamiprid (Active Ingredient)</p>	<p style="text-align: center;">(HEXON/QAL/TM/001) In-House Modified & Validated Method based on CIPAC Vol L page # 4-7 (HPLC Technique)</p>
		<p>Quantitative determination of Chlorpyrifos (Active Ingredient)</p>	<p style="text-align: center;">(HEXON/QAL/TM/003) In-House Modified & validated Method based on CIPAC Vol 1C page # 2028, (HPLC Technique)</p>
		<p>Quantitative determination of Pyriproxyfen (Active Ingredient)</p>	<p style="text-align: center;">(HEXON/QAL/TM/009) In-House Modified & validated Method based on CIPAC Vol M page # 180-183 (HPLC Technique)</p>
		<p>Quantitative determination of Fipronil (Active Ingredient)</p>	<p style="text-align: center;">(HEXON/QAL/TM/005) In-House Modified & validated Method based on CIPAC Vol J page # 61 (HPLC Technique)</p>
		<p>Quantitative determination of Clodinofof propargyl (Active Ingredient)</p>	<p style="text-align: center;">(HEXON/QAL/TM/004) In-House Modified & Validated Method based on CIPAC Vol M page # 26-29 (HPLC Technique)</p>
		<p>Quantitative determination of Lufenuron (Active Ingredient)</p>	<p style="text-align: center;">(HEXON/QAL/TM/007) In-house Modified & Validated Method based on CIPAC Vol M page # 106 -109 (HPLC Technique)</p>

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		Quantitative determination of Chlorfenapyr (Active Ingredient)	(HEXON/QAL/TM/002) In-house Modified & Validated Method based on CIPAC Vol O page # 22-26 (HPLC Technique)
		Quantitative determination of Pendimethalin (Active Ingredient)	(HEXON/QAL/TM/008) In- House Modified & Validated Method based on CIPAC Vol M page # 149 (HPLC Technique)
		Quantitative determination of Metolachlor (Active Ingredient)	(HEXON/QAL/TM/025) In-house Modified & validated method based on NLA South Africa (HPLC Technique)
		Quantitative determination of Bifenthrin (Active Ingredient)	(HEXON/QAL/TM/020) In-House developed and validated method based on International Journal of Advance Research (Volume 5, Issue 6) (HPLC Technique)
		Quantitative determination of Diafenthiuron (Active Ingredient)	(HEXON/QAL/TM/023) In-House developed and validated Method based on Ciba-Geigy (HPLC Technique)
		Quantitative determination of Lambda Cyhalothrin (Active Ingredient)	(HEXON/QAL/TM/024) In-House developed and validated Method based on University of China qingdgo, (HPLC Technique)
		Quantitative determination of Buprofezin (Active Ingredient)	In-House developed and validated Method (HEXON/QAL/TM/022) based on Korean Journal of Environmental Agriculture, (HPLC Technique)
		Quantitative determination of Clothianidin (Active Ingredient)	(HEXON/QAL/TM/0021) In-House Modified & Validated Method based on CIPAC Handbook Volume N page 14 (HPLC Technique)
		Quantitative determination of Azoxystrobin (Active Ingredient)	(HEXON/QAL/TM/019) In-House developed and validated Method based on J. Braz. Chem. Soc., Vol. 19, No. 1, 60-63, 2008 (HPLC Technique)
<p align="center">Fertilizer (Formulation/Finished & Technical) (Solid & Liquid) Potash (K₂O), Phosphorous (P₂O₅), Sulfur, Humic Acid, Iron (Fe) Zinc (Zn),</p>	<p align="center">Chemical Testing of Fertilizer</p>	Quantitative determination of K ₂ O (Active Ingredient)	(HEXON/QAL/TM/010) Verified Method for fertilizers Food And Agricultural Materials Inspection Center (FAMIC), Japan, 2013 Flame Photometer Technique)
		Quantitative determination of P ₂ O ₅ (Active Ingredient)	(HEXON/QAL/TM/011) Verified Method Pakistan standard for Single Super Phosphate (2nd edition) PS: 67-1996. PSQCA. Karachi (Titration Method)



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Manganeze (Mn)	Quantitative determination of Sulfur (Active Ingredient)	(HEXON/QAL/TM/026) Verified Method of AOAC 15 th edition page 34 method No. 980.02 (Gravimetric Titration)
	Quantitative determination of Nitrogen (Ammonical, Uric, and Total nitrogen) (Active Ingredient)	(HEXON/QAL/TM/027) Verified Method of AOAC 18 th edition (Kjeldahl method)
	Quantitative determination of Humic Acid (Active Ingredient)	(HEXON/QAL/TM/028) Verified Method http://www.humates.com/methodology.html MVH Humic Acid Methodology (Spectrophotometer Method)
	Quantitative determination of Acid Soluble Iron (Fe) (Active Ingredient)	(HEXON/QAL/TM/030) HACH Kit Method USEPA 8008 (Ferrover Method) (Spectrophotometer Method)
	Quantitative determination of Water Soluble Zinc (Zn) (Active Ingredient)	(HEXON/QAL/TM/029) Verified HACH Kit Method USEPA 8009 (Spectrophotometer Method)
	Quantitative determination of Acid Soluble Manganese (Mn) (Active Ingredient)	(HEXON/QAL/TM/031) Spectrophotometric Method/AOAC Method

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