Accreditation No: LAB 110

Awarded to

Suncrop (Pvt.) Ltd. Laboratory,
8-B, Industrial Estate,
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 **16-08-2016** 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 **15-08-2025.**

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

18-05-2023
Date

SD
Director General

Testing Laboratory.

Accreditation Scope of SUNCROP (Pvt.)Ltd. LABORATORY, 8-B Industrial Estate,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
Pesticide and Fertilizer (Finished / Formulated)	Physical Testing	Appearance (Finished/Formulated Product)	Standard colours / Visual
Pesticide Emulsifiable Concentrate (Finished / Formulated)		Emulsion (Finished/Formulated Product)	**SUNCROP/WI-02** Standard method CIPAC Hand Book Volume F (2007) MT 36 / Water Bath
Pesticide Wettable Powder and water Dispersible granules (Finished / Formulated)		Suspensibility (Finished/Formulated Product)	**SUNCROP/WI-04** CIPAC Hand Book Volume F (2007) MT 15 / Water Bath
Pesticide and Fertilizer (Finished / Formulated)		pH	**SUNCROP/WI-03** Standard method CIPAC Hand Book Volume F (2007)/ MT 75 /pH Meter
Pesticide Suspension Concentrates (Finished / Formulated)		Viscosity (Finished/Formulated Product)	**SUNCROP/WI-06** Standard method CIPAC Hand Book Volume L (2006) MT 192 / Viscometer
Pesticide and Fertilizer Finished and Formulated		Density (Finished/Formulated Product)	**SUNCROP/WI-01** (based on Standard method CIPAC Hand Book Volume F (2007) MT

18-05-2023
Date

Sd
Director

Pesticide Wettable Powder (Finished / Formulated)		Wettability	**SUNCROP/WI-05** Standard method CIPAC Hand Book Volume F (2007) MT 53 / Stop watch
Acephate Formulations & Technical	Chemical Testing	Quantitative analysis of active Ingredient (Acepate)	**SUNCROP/WI-07** NLA-PT-T-P-07-04, Based on Reference: Inhouse Validation/HPLC
Pyriproxifen Formulations & Technical		Quantitative analysis of active Ingredient (Pyriproxifen)	**SUNCROP/WI-16** PT NLA-PT-T-P-07-04, Based on reference:715/EC/M,CIPAC Volume M,2009.(HPLC)
Fipronil Formulations & Technical		Quantitative analysis of active Ingredient (Fipronil)	**SUNCROP/WI-13** Based on reference: 581/TC/M/ CIPAC Volume-J, 2000. HPLC
Atrazine Formulations & Technical		Quantitative analysis of active Ingredient (Atrazine)	**SUNCROP/WI-09** NLA-PT-T-P-07-04, Based on Reference: Inhouse Validation/HPLC
Benfuracarb Formulations & Technical		Quantitative analysis of active Ingredient (Benfuracarb)	**SUNCROP/WI-10** NLA-PT-T-P-07-04, Based on reference:501/TC/M,CIPAC Volume H,2008.(HPLC)
CartapHydrochloride Formulations & Technical		Quantitative analysis of active Ingredient (Cartap Hydrochloride)	**SUNCROP/WI-11** Based on Reference: 387/TC/M/ CIPAC Volume D, 1988. Spectrophotometer
Sulphur Formulations & Technical		Quantitative analysis of active Ingredient (Sulphur)	**SUNCROP/WI-17** Based on Reference: /TC/M/ CIPAC Volume E,(1993)/Gravimetric Method
Lambdacyhalothrin Formulations & Technical		Quantitative analysis of active Ingredient (Lambda Cyhalothrin)	**SUNCROP/WI-14** NLA-PT-T-P-07-04 Based on Reference: Inhouse Validation/HPLC
Acetamiprid Formulations & Technical		Quantitative analysis of active Ingredient (Acetamiprid)	**SUNCROP/WI-08** NLA-PT-T-P-06-06 Based on reference:649/TC/M,CIPAC Volume L,2006.(HPLC)

18-05-2023
Date

_____Sd____
Director

Mancozeb Formulation & Technical		Quantitative analysis of active Ingredient (Mancozeb)	**SUNCROP/WI-15** Based on Reference:61/TC/M/ CIPAC Volume "E" Page 116 (1993)/Gravimetric method
Clothianidin Formulation & Technical		Quantitative analysis of active Ingredient (Clothianidin)	**SUNCROP/WI-12** NLA-PT-T-P-07-04 Based onReference:738/TC/M/CIPAC Volume , N, (2012) HPLC
Lufenuron Formulation & Technical		Quantitative analysis of active Ingredient (Lufenuron)	**SUNCROP/WI-18** NLA-PT-T-P-07-04, Based onReference:704/EC/M,CIPAC Volume M (2009). HPLC
Thiophenate Methyl Formulation & Technical		Quantitative analysis of active Ingredient (Thiophenate Methyl)	**SUNCROP/WI-19** NLA-PT-T-P-06-06, Based onReference:262/TC/M,CIPAC Volume D (1988). HPLC
MCPA Formulation & Technical		Quantitative analysis of active Ingredient (MCPA)	**SUNCROP/WI-21** PT-T-P-07-04 Based on Reference: 2/TC/M3 , CIPAC, Volume C
Bifenthrin Formulation & Technical		Quantitative analysis of active Ingredient (Bifenthrin)	**SUNCROP/WI-22** NLA-PT-T-P-07-04, Based on Reference: Inhouse Validation HPLC
Carbofuron Formulation & Technical		Quantitative analysis of active Ingredient (Carbofuron)	**SUNCROP/WI-23** PT-T-P-06-06 Based onReference:276/TC/M,CIPAC Volume D (1988). HPLC
Pendimethalin Formulation & Technical		Quantitative analysis of active Ingredient (Pendimethalin)	**SUNCROP/WI-25** PT-T-P-07-04, Based onReference:357/TC/M,CIPAC Volume M (2009). HPLC

18-05-2023
Date

Sd
Director

Dinotefuron Formulation & Technical		Quantitative analysis of active Ingredient (Dinotefuran)	**SUNCROP/WI-26** PT-T-P-06-06 Based onReference:749/TC/M,CIPAC Volume L 2006. HPLC
Chlorfenapyr Formulation & Technical		Quantitative analysis of active Ingredient (Chlorfenapyr)	**SUNCROP/WI-28** PT-T-P-07-04, Based on Reference: Inhouse Validation HPLC
Thiamethoxam Formulation & Technical		Quantitative analysis of active Ingredient (Thiamethoxam)	**SUNCROP/WI-30** PT-T-P-07-04, Based on Reference: Inhouse Validation HPLC
Spirotetramate Formulation & Technical		Quantitative analysis of active Ingredient (Spirotetramate)	**SUNCROP/WI-29** PT-T-P-07-04 Based on Reference: Inhouse Validation HPLC
Metolachlor Formulation & Technical	Chemical Testing	Quantitative analysis of active Ingredient (METOLACHLOR)	**SUNCROP/WI-36** NLA-PT-T-P-07-04 (20), Based on Reference: Inhouse Verification HPLC
Mesosulfuron Methyl Formulation & Technical		Quantitative analysis of active Ingredient (MESOSULFURON METHYL)	**SUNCROP/WI-31** NLA-PT-T-P-06-07 (20), Based on Reference: Inhouse Verification HPLC
Flonicamid Formulation & Technical		Quantitative analysis of active Ingredient (FLONICAMID)	**SUNCROP/WI-20** NLA-PT-T-P-07-04 (20), Based on Reference: Inhouse Verification
Iodosulfuron Methyl Sodium Formulation & Technical		Quantitative analysis of active Ingredient (IODOSULPHURON METHYL SODIUM)	**SUNCROP/WI-32** PT-T-P-06-07 (20), Based on Reference: Inhouse Verification
Imidacloprid Formulation & Technical		Quantitative analysis of active Ingredient (IMIDACLOPRID)	**SUNCROP/WI-37** NLA-PT-T-P-07-04 (20), Based on Reference:582/TC/M,CIPAC Volume H 2008. HPLC

18-05-2023
Date

Sd
Director

Metalaxyl Formulation & Technical		Quantitative analysis of active Ingredient (METALAXYL)	**SUNCROP/WI-27** NLA-PT-T-P-07-04 (20), Based on Reference:365/TC/M,CIPAC Volume E 1993. GC
Nitrogen Fertilizer Formulation & Technical		Quantitative Determination of Active Ingredient. **Ammonical Nitrogen** Quantitative Determination of Active Ingredient. **Nitrate Nitrogen** Quantitative Determination of Active Ingredient. **Total Nitrogen** Quantitative Determination of Active Ingredient. **Uric Nitrogen**	**SUNCROP/WI-33** Based on Reference: Official Methods of Analysis of AOAC International 21st Edition 2019, Volume I, Current through Revision 2019. Method No. 2.4.0.5 (AOAC Official Method 978.02), Fertilizer Chapter 2 Page 14-15 (Kjeldhal,s distillation apparatus)
Phosphorous Fertilizer Formulation & Technical		Quantitative analysis of active Ingredient citrate soluble and Total Phosphorous (P_2O_5)	**SUNCROP/WI-34** Based on: Pakistan Standard for Single Super Phosphate (2nd edition) PS: 67-1996 PSQCA.Karachi. (Titrimetric Method)
Potassium Fertilizer Formulation & Technica		Quantitative analysis of active Ingredient Water soluble Potassium (K_2O)	**SUNCROP/WI-35** Richards.L.A 1954. Diagonosis and improvement of saline and alkali soil.USDA, agric, Handbook 60, Washington.D.C. ii) standard operating Manual of Flame photometer.
Humic Acid Formulation & Technical		Quantitative analysis of active Ingredient HUMIC ACID	**SUNCROP/WI-38** John Husler, Uni of new Mexico, Dept. of geology, Albuquerque, New Maxico. A.L, page, Metod of soil analysis, Part2, American Socity of Agronomy, Inc, Madison, Wisconsin, 1982(Gravimetric Method)
Zinc Fertilizer Formulation & Technical		Quantitative analysis of active Ingredient ZINC (Water Soluble and Acid soluble)	**SUNCROP/WI-39** Instrument Manufacturing Method HACH

18-05-2023
Date

Sd
Director

Iron Fertilizer Formulation & Technical		Quantitative analysis of active Ingredient IRON (Water Soluble and Acid soluble)	**SUNCROP/WI-40** Instrument Manufacturing Method HACH
Manganese Fertilizer Formulation & Technical		Quantitative analysis of active Ingredient MANGANESE (Water Soluble and Acid soluble)	**SUNCROP/WI-41** Instrument Manufacturing Method HACH
Copper Fertilizer **Formulation** **&** **Technical**		**Quantitative analysis of active Ingredient Copper** **(Water Soluble and Acid soluble)**	**SUNCROP/WI-57** **Instrument Manufacturing Method** **HACH**
Paraquate **Formulation** **&** **Technical**		Quantitative analysis of active Ingredient (Paraquat)	SUNCROP/WI-24 Based on: 56/ SL/ M,CIPAC Volume M 1993, Page# 166 - 168. Spectrophotometer Technique
Mesotrione **Formulation** **&** **Technical**		Quantitative analysis of active Ingredient (Mesotrione)	**SUNCROP/WI-42** NLA-PT-T-P-23-02 , Based on Reference: Inhouse Verification HPLC
Difenconazole **Formulation** **&** **Technical**		Quantitative analysis of active Ingredient (Difenconazole)	**SUNCROP/WI-43** NLA-PT-T-P-07-04 , Based on Reference: Inhouse Verification HPLC
Azoxystrobin **Formulation** **&** **Technical**		Quantitative analysis of active Ingredient (Azoxystrobin)	**SUNCROP/WI-44** NLA-PT-T-P-06 - 08, Based on Reference: Inhouse Verification HPLC
Chlorpyriphos **Formulation** **&** **Technical**		Quantitative analysis of active Ingredient (Chlorpyriphos)	**SUNCROP/WI-45** NLA-PT-T-P-07-04 , Based on Reference: Inhouse Verification HPLC

18-05-2023
Date

Sd
Director

Diafenthiuron Formulation & Technical		Quantitative analysis of active Ingredient (Diafenthiuron)	**SUNCROP/WI-46** NLA-PT-T-P-07-04 , Based on Reference: Inhouse Verification HPLC
Nitenpyram Formulation & Technical		Quantitative analysis of active Ingredient (Paraquat)	SUNCROP/WI-53 NLA-PT-T-P-23-03 , Based on Reference: Inhouse Verification HPLC
Chloronil Formulation & Technical		Quantitative analysis of active Ingredient (Chloronil)	**SUNCROP/WI-54** NLA-PT-T-P-23-03 , Based on Reference: Inhouse Verification HPLC
Quizalofop-P-Ethyl Formulation & Technical		Quantitative analysis of active Ingredient (Quizalofop-P-Ethyl)	**SUNCROP/WI-55** NLA-PT-T-P-07-04 , Based on Reference: Inhouse Verification HPLC
Chlorantraniliprole Formulation & Technical		Quantitative analysis of active Ingredient (Chlorantraniliprole)	**SUNCROP/WI-56** NLA-PT-T-P-23-03 , Based on Reference: Inhouse Verification HPLC

18-05-2023
Date

Sd
Director

Toxicology Studies	**Physical Testing**	**Acute Dermal Irritation Test**	**SUNCROP/WI-50 OECD(2015) Test no 404: Acute Dermal Irritation/Corrosion, OECD Publishing, Paris.**
Toxicology Studies	**Physical Testing**	**Acute Eye Irritation Test**	**SUNCROP/WI-51 OECD(2021) Test no 405: Acute Eye Irritation/Corrosion, OECD Publishing, Paris.**
Toxicology Studies	**Physical Testing**	**Acute Dermal Toxicity Test**	**SUNCROP/WI-48 OECD(2017) Test no 402: Acute Dermal Toxicity, OECD Publishing, Paris.**
Toxicology Studies	**Physical Testing**	**Acute Oral Toxicity Test**	**SUNCROP/WI-47 OECD(2001) Test no 423: Acute Oral Toxicity, OECD Publishing, Paris.**
Toxicology Studies	**Physical Testing**	**Skin SensitizationToxicity Test**	**SUNCROP/WI-52 OECD (2021) Test no 406: Acute Oral Toxicity, OECD Publishing, Paris.**

18-05-2023
Date

Sd
Director