

Laboratory Coromandel Innovation Centre (A Division of Coromandel International Limited) Lab No. 8A & 8B, Phase-2, IKP Knowledge Park, Genome Valley, Turkapally, Shameerpet, Hyderabad, RR District, Telangana

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6477

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Validity 03.11.2017 to 02.11.2019

Last Amended on 03.11.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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CHEMICAL TESTING

I.	PESTICIDE FORMUALTIONS			
A.	Technical Concentrates (TK)			
1.	Cyproconazole Technical	Physical Appearance	OPPTS 830.6303/6302/6304.1996	Qualitative
		pH	CIPAC MT 75.3, (Vol J 2000)	4.0 to 7.0
		Solubility in Organic Solvents.	CIPAC MT 181 (Vol H 1998)	Acetone: 300 to 500 g/L, Methanol: 350 to 500 g/L
		Active Content	CIPAC 600/TC/M (Vol J 2000).	80 to 99.9%
2.	Temephos Technical	Physical Appearance	OPPTS 830.6303/6302/6304.1996	Qualitative
		Solubility in Organic Solvents	CIPAC MT 181 (Vol H-1998)	Dichloromethane: 900 to 1000 g/L, Methanol: 900 to 1000 g/L
		Active Content	CIPAC 340/TC/M (Vol 1C 1985)	80 to 99.9%
3.	Monocrotophos Technical	Physical Appearance	OPPTS 830.6303/6302/6304.1996	Qualitative
		pH	CIPAC MT 75.3 (Vol J 2000)	2.0 to 4.0
		Active Content	IS 8025-1990 RA 2017	70 to 80%
4.	Acetamiprid technical	Physical Appearance	OPPTS 830.6303/6302/6304.1996	Qualitative
		Active Content	IS 15981-2013	80 to 99.9%

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5.	Tolfenpyrad technical	Physical Appearance	OPPTS 830.6303/6302/6304.1996	Qualitative
		pH	CIPAC MT 75.3 (Vol J 2000)	4.0 to 7.0
		Active Content	In-house Method (TFP-01/17)	80 to 99.9%
		Density	CIPAC MT 3.2 (Vol F 1995)	0.1to 1.0 g/mL
		Solubility in Organic Solvents	CIPAC MT 181 (Vol H-1998)	Acetone: 300to 400 g/L, Methanol: 45to 65 g/L.
B.	Granules (GR)			
1.	Temephos 1% GR	Physical Appearance	OPPTS 830.6303/6302/6304.1996	Qualitative
		Bulk Density	CIPAC MT 186 (Vol K 2003)	1.0 to 1.60 g/mL
		Nominal Size Range	CIPAC MT 58 (Vol F 2007)	1 to 100%
		Active Content	CIPAC 340/GR/M (Vol 1C, 1985)	0.5 to 5.0%
C.	Wettable Powders (WP)			
1.	Mancozeb 80 % WP	Physical Appearance	OPPTS 830.6303/6302/6304.1996	Qualitative
		Active Content	CIPAC MT 34/WP/M3 (Vol H 1998)	70 to 90%
		pH	CIPAC MT 75.3 (Vol J 2000)	6.0 to 9.0
		Bulk Density	CIPAC MT 186 (Vol K 2003)	0.30 to 0.50 g/mL
		Wet Sieve Test	CIPAC MT 185 (Vol K 2003)	90 to 100%

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		Suspensibility	IS 6940: 1982 RA 2017	50 to 100%
2.	Mancozeb 46.5 %+ Cymoxanil 4 % WP	Physical Appearance	OPPTS 830.6303/ 6302/6304.1996	Qualitative
		pH	CIPAC MT 75.3 (Vol J 2000)	6.5 to 8.5
		Bulk Density	CIPAC MT 186 (Vol K 2003)	0.20 to 0.40 g/mL
		Wet Sieve Test	CIPAC MT 185 (Vol K 2003)	1 to 100%
		Suspensibility	IS 6940: 1982 RA 2017	50 to 100%
		Active Content	Inhouse Method (MNZ46.5CYM04-01/16)	1 to 60%
3.	Mancozeb 60% + Metalxyl 10% WP	Active Content	In-house method (MNZ60MET10-03/16)	1to 80 %
		Wet Sieve Test	CIPAC MT 185 (Vol K 2003)	99.0 to 100.0
		Suspensibility	IS 6940: 1982 RA 2017	10 to 100%
		pH	CIPAC MT 75.3 (Vol J 2000)	5.0 to 9.0
D. Soluble powders(SP)				
1.	Acephate75%SP	Physical Appearance	OPPTS 830.6303/ 6302/6304.1996	Qualitative
		pH	CIPAC MT 75.3 (Vol J 2000)	3.0 to 5.0
		Bulk Density	CIPAC MT 186 (Vol K 2003)	0.20 to 0.80 g/mL
		Wet Sieve Test	CIPAC MT 185 (Vol K 2003)	90 to 100%

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		Active Content	In-house Method (ACP-02/17)	70 to 100%
E. Aqueous Suspension Concentrates (SC)				
1.	Mancozeb 33 % SC	Physical Appearance	OPPTS 830.6303/6302/6304.1996	Qualitative
		pH	CIPAC MT 75.3 (Vol J 2000)	5.0 to 9.0
		Active Content	MT34/SC/M/3 (Vol H 1998)	10 to 50%
		Manganese and Zinc Content	CIPAC MT 34/WP/M/4 (Vol H 1998)	1 to 5% 1 to 25%
		Persistent Foam	CIPAC MT 47.2 (Vol F 2007)	1 to 80 mL
		Pourability	CIPAC MT 148.1 (Vol F 2007)	50 to 99%
		Suspensibility	CIPAC MT 184 (Vol K 2003)	10 to 99%
		Spontaneity of Dispersion	CIPAC MT 160 (Vol F 2007)	90.0 to 100.0%
		Wet Sieve Test	CIPAC MT 185 (Vol K 2003)	70 to 100%
2.	Azoxystrobin 20 % + Cyproconazole 8 % SC	Physical Appearance	OPPTS 830.6303/6302/6304.1996	Qualitative
		pH	CIPAC MT 75.3 (Vol J 2000)	6.0 to 8.0
		Density	CIPAC MT 3.2 (Vol F 2007)	1.0 to 1.2 g/mL
		Active Content	Inhouse Method (AZY20CYP-04/16)	1 to 40%
		Pourability (Rinsed Residue)	CIPAC MT 148.1 (Vol F 2007)	1 to 10%

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		Suspensibility	CIPAC MT 184 (Vol K 2003)	50 to 100%
		Spontaneity of Dispersion	CIPAC MT 160 (Vol F 2007)	84 to 88%
		Wet Sieve Test	CIPAC MT 185 (Vol K 2003)	70 to 100%
		Persistent Foam	CIPAC MT 47.2 (Vol F 2007)	1 to 80 mL
3.	Tolfenpyrad 15%SC	Physical Appearance	OPPTS 830.6303/6302/6304.1996	Qualitative
		pH	CIPAC MT 75.3 (Vol J 2000)	6.0 to 8.0
		Density	CIPAC MT 3.2 (Vol F 2007)	0.90 to 1.2 g/mL
		Active Content	In-house Method (TFP-01/17)	10 to 20%
		Pourability (Rinsed Residue)	CIPAC MT 148.1 (Vol F 2007)	1 to 10%
		Suspensibility	CIPAC MT 184 (Vol K 2003)	50 to 100%
		Spontaneity of Dispersion	CIPAC MT 160 (Vol F 2007)	50 to 100%
		Wet Sieve Test	CIPAC MT 185 (Vol K 2003)	70 to 100%
		Flash Point	CIPAC MT 12.1 (Vol F 1995)	45 to 55°C
		Persistent Foam	CIPAC MT 47.2 (Vol F 2007)	1 to 60 mL
F. Emulsifiable Concentrates (EC)				
1.	Phenthoate 50 % EC	Physical Appearance	OPPTS 830.6303/6302/6304.1996	Qualitative

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		Flash Point	CIPAC MT 12.1 (Vol F 1995)	30 to 70%
		Emulsion Stability	CIPAC MT 36.1 (Vol F 1995)	2 ml max. cream or sediment after 24hr
		Active Content	In-house method (PHN-03/17)	10 to 100%
2.	Chlorpyrifos 44.9 % EC	Active Content	CIPAC 221.b/TC/M/3. (Vol 1C 1985)	1 to 60%
3.	Tolfenpyrad 15%EC	Physical Appearance	OPPTS 830.6303/6302/6304.1996	Qualitative
		Active Content	In-house Method (TFP-01/17)	10 to 20%
		Flash Point	CIPAC MT 12.1 (Vol F 1995)	45 to 55°C
		Emulsion Stability	CIPAC MT 36.1 (Vol F 1995)	2 ml max. cream or sediment after 24hr
G. Soluble Concentrates (SL)				
1.	Monocrotophos 55% SL	Physical Appearance	OPPTS 830.6303/6302/6304.1996	Qualitative
		Active Content	IS 8025-1990	40 to 70%
2.	Cyproconazole 8.8% SL	Physical Appearance	OPPTS 830.6303/6302/6304.1996	Qualitative
		Acidity	CIPAC MT 31 (Vol F 1995)	0.1 to 0.5 %
		Active Content	CIPAC 600/TC/M (Vol J 2000)	1 to 20%
H. Ultra-Low Volume Liquids (UL)				
1	Malathion 96 % ULV	Active Content	MALA96ULV-02/16	80 to 99.9%
		Flash Point	CIPAC MT 12.1 (Vol F 1995)	30 to 120° C