

Laboratory	Insecticides (India) Limited, Test Lab, E-443 and E-444, RIICO Industrial Area, Chopanki, Bhiwadi, Rajasthan Location 1: E-443 and E-444, RIICO Industrial Area, Chopanki, Bhiwadi, Rajasthan Location 2: E-442, RIICO Industrial Area, Chopanki, Bhiwadi, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	26.11.2014
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
Location 1				
I. PESTICIDES				
1. Pesticides Formulation				
a.	Profenophos + Cypermethrin-EC	Profenophos	IS 15236: 2002 (RA 2009)	25 % to 50 %
		Cypermethrin	(A-0 GC Method)	1 % to 50 %
		Cold test	IS 6940: 1982 (RA 2007)	Qualitative Test
		Flash Point	IS 1448 (Part 20) (RA 2008)	Above 24.5 °C
		Emulsion stability	IS 6940: 1982 (RA 2007)	0.1 ml to 5 ml
		Acidity	IS 6940: 1982 (RA 2007)	0.005 % to 4 %
b.	Monocrotophos SL	Active ingredient	IS 8074: 1990 (RA 2007) IS 8025: 1990 (Anx. B) (RA 2007) (UV Spectrophotometrically)	25 % to 50 %
		Free aceto-acetic acid mono methyl amide content	IS 8025: 1990 (RA 2007)	0.5 % to 6 %
		Cold test	IS 6940:1982 (RA 2007)	Qualitative Test
		Flash point	IS 1448 (Part 20) (RA 2008)	Above 24.5 °C
		Acidity	IS 6940: 1982 (RA 2007)	0.02 % to 4 %
		c.	Chlorpyrifos Emulsifiable Concentrate	Active ingredient
Cold test	IS 6940: 1982 (RA 2007)			Qualitative Test
Flash Point	IS 1448 (Part 20) (RA 2008)			Above 24.5°C
Emulsion stability	IS 6940: 1982 (RA 2007)			0.1 ml to 5 ml
Acidity	IS 6940: 1982 (RA 2007)			0.002 % to 4 %

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Location 1				
d.	Cypermethrin EC	Active ingredient	IS 12016: 1987 (RA 2007) IS 12015: 1987 (RA 2007) (A-2 GC Method)	2 % to 50 %
		Cold test	IS 6940: 1982 (RA 2007)	Qualitative Test
		Flash Point	IS 1448 (Part 20) (RA 2008)	Above 24.5 °C
		Emulsion stability	IS 6940: 1982 (RA 2007)	0.1 ml to 5 ml
		Acidity	IS 6940: 1982 (RA 2007)	0.002 % to 4 %
e.	Profenophos EC	Active ingredient	IS 15240: 2002 (RA 2009) IS 15238: 2002 (RA 2009) (GC Method)	25 % to 60 %
		Cold test	IS 6940: 1982 (RA 2007)	Qualitative Test
		Flash Point	IS 1448 (Part 20) (RA 2008)	Above 24.5°C
		Emulsion stability	IS 6940: 1982 (RA 2007)	0.1 ml to 5 ml
		Acidity	IS 6940: 1982 (RA 2007)	0.005 % to 4 %
f.	Dichlorvos EC	Active ingredient	IS 5277: 1978 (RA 2007) (A-1 Mercaptometric method)	50 % to 85 %
		Cold test	IS 6940:1982 (RA 2007)	Qualitative Test
		Flash Point	IS 1448 (Part 20) (RA 2008)	Above 24.5°C
		Emulsion stability	IS 6940: 1982 (RA 2007)	0.1ml to 5 ml
		Acidity	IS 6940: 1982 (RA 2007)	0.002 % to 4 %
g.	Mancozeb WP	Active ingredient	IS 8708 : 2006 (RA 2010) IS 8707 : 1978 (RA 2009) (Anx. A Hydrolysis Method)	50 % to 85 %

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Location 1				
h.	Butachlor Emulsifiable Concentrates	Active ingredient	IS 9356: 1980 (RA 2007) IS 9355: 1980 (RA 2007) (A-1 GC Method)	10 % to 60 %
		Cold test	IS 6940: 1982 (RA 2007)	Qualitative Test
		Flash Point	IS 1448 (Part 20) (RA 2008)	Above 24.5 °C
		Emulsion Stability	IS 6940: 1982 (RA 2007)	0.1 ml to 5 ml
		Acidity/ Alkalinity	IS 6940: 1982 (RA 2007)	0.002 % to 4 %
i.	Pendimethalin EC	Active ingredient	IS 12751: 1989 (RA 2009) IS 12685: 1989 (RA 2009) (GC Method)	20 % to 40 %
		Cold test	IS 6940: 1982 (RA 2007)	Qualitative Test
		Flash Point	IS 1448 (Part 20) (RA 2008)	Above 24.5°C
		Emulsion stability	IS 6940: 1982 (RA 2007)	0.1 ml to 5 ml
		Acidity/ Alkalinity	IS 6940: 1982 (RA 2007)	0.002 % to 4 %
j.	2,4-D Ethyl Ester EC	Active ingredient	IS 10243:1993(RA 2007) (Anx. B, GC Method)	25 % to 50 %
		Cold Test	IS 6940: 1982 (RA 2007)	Qualitative Test
		Flash Point	IS 1448 (Part 20) (RA 2008)	Above 24.5 °C
		Emulsion stability	IS 6940: 1982 (RA 2007)	0.1 ml to 5 ml
		Free 2,4D	IS 7233: 1991 (RA 2009)	0.5 % to 7 %
k.	2,4-Dimethyl Amine Salt SL	Active ingredient	IS 1827: 1989 (RA 2009) (Anx. B)	25 % to 70 %
		Melting Point of the extracted acid	IS 6940: 1982 (RA 2007) IS 1827: 1989 (RA 2004)	135 °C to 145 °C
		Alkalinity	IS 6940: 1982 (RA 2007)	0.002 % to 4 %

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Location 2				
I. PESTICIDES				
1. Pesticides Technical				
a.	Atrazine	Active ingredient	IS 12932: 1990 (RA 2007) (B-3 HPLC Method)	25 % to 100 %
		Moisture content	IS 6940: 1982 (RA 2007) (Karl Fischer)	0.01% to 1.0 %
		Melting point	IS 6940: 1982 (RA 2007)	160 °C to 180 °C
		Ionic chloride	IS 12932: 1990 (RA 2007)	0.1 % to 2 %
b.	Glyphosate	Active ingredient	IS 12502:1988 (RA 2009) (A-1 Spectrophotometrically)	25 % to 100 %
		Extra acidity	IS 12502: 1988 (RA 2009)	0.2 % to 4 %
		Moisture content	IS 6940: 1982 (RA 2007) (Karl Fischer)	0.1 % to 1.0 %
		Chloride	IS 12502: 1988 (RA 2009)	0.1 % to 2 %
c.	Chlorpyrifos	Active ingredient	IS 8963: 2006 (RA 2010) (A-1 GC Method)	25 % to 100 %
		Water content	IS 6940:1982 (RA 2007) (Karl Fischer)	0.01 % to 1.0 %
		Acidity	IS 6940: 1982 (RA 2007)	0.002 % to 4 %
		Material insoluble in acetone	IS 6940: 1982 (RA 2007)	0.002 % to 4 %

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Location 2				
d.	Cypermethrin	Active ingredient	IS 12015: 1987 (RA 2007) (A-2 GC Method)	25 % to 100 %
		Acidity	IS 6940: 1982 (RA 2007)	0.002 % to 4 %
		Moisture Content	IS 6940: 1982 (RA 2007) (Karl Fischer)	0.005 % to 1.0 %
		Cis-trans ratio	IS 12015: 1987 (RA 2007)	Cis Min 40 %, trans Max 60 %
e.	Dichlorvos	Active ingredient	IS 4929: 1978 (RA 2007) (A-1 Iodometrically)	50 % to 100 %
		Acidity	IS 6940: 1982 (RA 2007)	0.01 % to 5 %
		Material insoluble in acetone	IS 6940: 1982 (RA 2007)	0.001 % to 1.0%
		Moisture Content	IS 6940: 1982 (RA 2007) (Karl Fischer)	0.005 % to 1.0 %
f.	Imidacloprid	Active ingredient	IS 15443: 2004 (RA 2009) (A-1 HPLC Method)	25 % to 100 %
		Moisture content	IS 6940: 1982 (RA 2007) (Karl Fischer)	0.02 % to 1.0 %
		Acidity/ Alkalinity	IS 6940: 1982 (RA 2007)	0.002 % to 4 %
g.	Lambda- Cyhalothrin Technical	Active ingredient	IS 14509: 1997 (RA 2007) (A-2 HPLC Method)	25 % to 100 %
		Moisture content	IS 6940: 1982 (RA 2007) (Karl Fischer)	0.005 % to 1.0 %
		Acidity	IS 6940: 1982 (RA 2007)	0.002 % to 4 %

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
Location 2				
h.	Thiophanate Methyl	Active ingredient	IS 14551: 1998 (RA 2009) (A-2 HPLC Method)	50 % to 100 %
		Moisture content	IS 6940: 1982 (RA 2007) (Karl Fischer)	0.005 % to 1.0 %
		Acidity	IS 6940: 1982 (RA 2007)	0.002 % to 4 %
		Material insoluble in acetone	IS 6940: 1982 (RA 2007)	0.005 % to 4 %

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