UPASI Tea Research Foundation, Regional Centre-Coonoor, Glenview, Coonoor, The Nilgiris, Tamil Nadu Laboratory

Accreditation Standard ISO/IEC 17025: 2005

TC-7682 (in lieu of T-0619) Page 1 of 2 **Certificate Number**

Validity 29.09.2018 to 28.09.2020 Last Amended on --

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

CHEMICAL TESTING

OOD & AGRICUL			
Tea Tea	Total ash	IS 13854:1994 (RA 2014), ISO 1575:1987	1 % to 25 %
	Water soluble ash	IS 13855:1993 (RA 2014), ISO 1576:1988	5% to 80 %
	Acid insoluble ash	IS 13857:1993 (RA 2014), ISO 1577:1987	0.01 % to 10 %
	Alkalinity of water soluble ash	IS 13856:1993 (RA 2014), ISO 1578:1975	0.3% to10 %
	Water extract	IS 13862:1999 (RA 2014), ISO 9768:1994	5 % to 70 %
	Crude fibre	IS 16041:2012 (RA 2017) ISO 15598:1999	2 % to 50 %
		IS 13853:1994 (RA 2014), ISO 1573:1980	0.1 % to 25 %
	Theaflavin	UPASI RC/CNR-03	0.05 % to 3%
	Thearubigin	SOP No. 23 dt.13/10/2014	0.15 % to 20%
	High polymerized substance		0.15 % to 20%
	Total liquor colour		0.1 to 10
	Caffeine	UPASI RC/CNR-03 SOP No. 24 dt.13/10/2014	0.1 % to 7%
	Total Polyphenols	ISO:14502-1:2005	1 % to 40 %
	Total Catechins	UPASI RC/CNR-03 SOP No. 29 dt.04/09/2017	1 % to 30 %
ERTILISERS			
Ammonium Sulphate	Ammoniacal Nitrogen	IS 6092 (Part 2): 1985 (RA 2014)	1 % to 30 %
١	mmonium	ash Water extract Crude fibre Loss of moisture at 103°C Theaflavin Thearubigin High polymerized substance Total liquor colour Caffeine Total Polyphenols Total Catechins EERTILISERS Ammonium Ammoniacal Nitrogen	Alkalinity of water soluble ash IS 13856:1993 (RA 2014), ISO 1578:1975 Water extract IS 13862:1999 (RA 2014), ISO 9768:1994 Crude fibre IS 16041:2012 (RA 2017) ISO 15598:1999 Loss of moisture at 103°C IS 13853:1994 (RA 2014), ISO 1573:1980 Theaflavin UPASI RC/CNR-03 Thearubigin SOP No. 23 dt.13/10/2014 High polymerized substance Total liquor colour Caffeine UPASI RC/CNR-03 SOP No. 24 dt.13/10/2014 Total Polyphenols ISO:14502-1:2005 Total Catechins UPASI RC/CNR-03 SOP No. 29 dt.04/09/2017 ERTILISERS UPASI RC/CNR-03 SOP No. 29 dt.04/09/2017

Rini Narayan	Venugopal C
Convenor	Program Manager

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	Muriate of potash	Potassium	IS 6092(Part 4):1985 (RA 2017)	2 % to 65 %
3.	Zinc sulphate	Zinc	IS:8249 : 1994 (RA 2016)	1 % to 40 %
		Sodium	IS: 260: 2001 (RA 2017)	50 % to 10000 mg/kg
		Iron	FCO, 1985 (Edn. 2018)	100 % to 50000 mg/kg
		рН	IS 8249 : 1994 (RA 2016)	2 to 9
4.	Boric acid	Boron	FCO, 1985 (Edn. 2018)	0.5 % to 20 %
5.	Copper	Copper	IS 1506:1977 (RA 2017)	2 % to 60 %
	oxychloride	Suspensibility	IS 6940:1982 (RA 2017)	5 % to 100 %
		рН	IS 1507:1977 (RA 2017)	3 to 10
6.	Copper sulphate	Copper	IS 261:1982 (RA 2016)	1 % to 40 %
		рН	IS 261:1982 (RA 2016)	2 to 7
7.	Manganese sulphate	Manganese	FCO, 1985 (Edn. 2018)	0.1 % to 40 %
8.	Rock phosphate	Phosphorous	FCO, 1985 (Edn. 2018)	1 % to 40 %

Rini Narayan Convenor