

Laboratory Drip Irrigation Material Testing Laboratory, Vasantdada Sugar Institute, Manjari (Bk), Tal. Haveli, Dist. Pune, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7883 (in lieu of T-0869)

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Validity 10.09.2018 to 09.09.2020

Last Amended on 26.09.2018

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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MECHANICAL TESTING

I.	PERFORMANCE/DURABILITY/SAFETY TEST			
1.	Irrigation Lateral, Emitter and Emitting pipe	Dimensions Outside diameter Inside diameter Wall thickness	IS 12786-1989 (RA 2015) IS 13488-2008	Upto 25 mm
		Hydraulic characteristics Acceptance and quality tests	IS 12786-1989 (RA 2015)	Upto 20 kg/cm ²
		Carbon Black content	IS 12786-1989 (RA 2015) IS 13488-2008	Upto 5%
		Reversion test	IS 12786-1989 (RA 2015)	Upto 5%
		Tensile strength	IS 12786-1989 (RA 2015)	Upto 30 Mpa
		Elongation at break	IS 12786-1989 (RA 2015)	Upto 1000 %
		E.S.C.R. test	IS 12786-1989 (RA 2015) IS 13488-2008	Qualitative
		Flow path	IS 13487-1992 (RA 2015) IS 13488-2008	Upto 5 mm
		Emission rate as a function of inlet Pressure	IS 13487-1992 (RA 2015) IS 13488-2008	0 to 20 %
		Resistance to hydrostatic pressure at ambient and elevated temperature	IS 13487-1992 (RA 2015) IS 13488-2008	0 to 20 %
		Emitter pull out	IS 13487-1992 (RA 2015)	Qualitative
		Uniformity of emission rate (Cv) & Deviation of mean emission rate from nominal emission rate	IS 13487-1992 (RA 2015) IS 13488-2008	0 to 100%
		Spacing of emitting units	IS 13488-2008	0 to 20 %
		Resistance to tension at elevated Temperature	IS 13488-2008	0 to 20 %

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		Visual Appearance, Construction and workmanship	IS 12786-1989 (RA 2015) IS 13488-2008 IS 13487-1992 (RA 2015)	Qualitative
		Resistance to pull out of joints between fitting and emitting pipe	IS 13488-2008	Qualitative