Laboratory		astics Engineering & Tech ndustrial Area, Chikalthan		
Accreditation Standard	ISO/IEC 17025: 2005			
Discipline	Mechanical Testing	Is	ssue Date	25.07.2014
Certificate Number	T-1756	V	/alid Until	24.07.2016
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S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are	-	e of Testing / s of Detection

performed

I. PLASTICS, RUBBER AND LEATHER

1.	UPVC pipe for Potable Water Supplies , UPVC Screen and casing Pipes for Bore/Tube Well, UPVC Pipes for Soil and Waste Discharge System inside buildings including ventilation and Rain Water System, High Density Polyethylene Pipes for Potable Water Supplied,	Reversion Test	IS: 12235 -2004 (Pt.5) IS: 3076-85 / IS:4984:95 Annex C(RA2008)/ IS:12235(Pt-5)-2004(RA2009)/ IS: 12786-89(RA2009)/ IS: 13592-92 (RA2008)/ IS: 14151(Pt-1)-99(RA2009)/ IS: 14333-96 Annex C (RA2007)/ IS:14885-2001 Annex C (RA 2007)/ IS:14787-2000(RA2010)/ IS: 15328 :2003(RA 2008)/ IS :15778 : 2007 IS: 15801: 2008	0.1 to 10%
	Water Supplied, Polyethylene pipes for Irrigation Laterals Quick Coupled Polyethylene, Rotational Moulded Polyethylene Water Storage tanks, Low Density Polyethylene Films. LDPE Pipes for potable water	Dimensions Thickness Diameter Length Width	IS: 4985-2000(RA 2005)/ IS:4984 -1995 (RA 2002)/ IS:12701-96 (RA 2002)/ IS:14151 (PT-1)-99(RA2009) / IS: 14151(Part 2) :2008/ IS: 2508-84 (RA 2003) / IS:13592-92 (RA 2002)/ IS: 12818-2010/ IS:14787:2000 (RA 2005) / IS: 14885 -2001 (RA 2007) / IS:14735 00 (RA 2004) /	0.01 to 50mm 0.01 to 200mm 0.01 to 300mm 1 to 600mm 1 to 500mm
	supplies UPVC single walled corrugated pipe for drainage, PE Pipes for Irrigation Laterals Irrigation		IS:14735-99 (RA 2004) / IS:13488-2008 / IS:12231-87 (RA 2003) IS: 3076-85/ IS: 9271-04(RA2009)/ IS: 12786-89(RA2009)/ IS:13487-92(RA2009)/	

Labo	oratory		astics Engineering & Tech ndustrial Area, Chikalthan		
Accr	editation Standard	ISO/IEC 17025: 2005			
Disc	ipline	Mechanical Testing	ls	ssue Date	25.07.2014
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection
	Equipments – Emitters, HDPE Pipes for Sewerage, PE microtubes for drip irrigation, UPVC Pipes & Fittings for Telecommunication PE Pipes for Gaseous Fuel UPVC non pressure Pipes for SWR System PE/AI/PE composite pipe Chlorinated Polyvinyl Chloride, PipesPolypropylene Random Copolymer pipes for hot and		IS: 14333-96(RA2007)/ IS: 14482-97(RA 2009)/ IS: 14787-2000 IS: 14885-2001(RA2007)/ IS: 15328-03(RA2008)/ IS: 15450-04/ IS: 15450-04/ IS: 15778-07/ IS: 15801-08/ IS: 12235(Pt-1)-2004(RA2009)/ IS: 10124(Pt-1 to13)-8(RA200 IS: 7834 (Pt-1 to 8)-87(RA200 IS: 14887-2000 (RA2006)/ IS: 7903:2011 (RA2010)/ IS: 15907:2010 IS:10889 -1984(RA2003)/ IS:11805 -1989(RA2004)	0.01 to 0.01 to 1 to 60 1 to 50 9)/	
	cold water supplies, Fabricated PVC fittings, Injection Moulded PVC Fittings UPVC Injection Moulded Fittings for SWR, Containers for	Visual Appearance	IS: 4985-2000(RA 2005) / 4984-1995(RA 2002)/ IS:12701-96/ IS:14151 (Pt-1)-99(RA2009) IS:14151 (Pt-2)-2008/ IS:2508-84(RA 2003) / IS:13592-92 /	Qualit /	ative

IS:12818-10

IS:14787:2000 (RA 2005)/

IS:14735-99 (RA 2004) / IS:7903-2011 IS: 3076-85/ IS: 9271-04(RA2009)/

IS: 14885 (RA 2007) /

Packaging of

Natural Mineral

Drinking Water

Water and Packaged

Laboratory		Central Institute of Plastics Engineering & Technology (CIPET), Plot No. J-3/2, MIDC Industrial Area, Chikalthana, Aurangabad, Maharashtra			
Acci	reditation Standard	ISO/IEC 17025: 2005			
Disc	ipline	Mechanical Testing	ls	sue Date	25.07.2014
Cert	ificate Number	T-1756	Va	alid Until	24.07.2016
Last	Amended on	-	Pa	age	3 of 9
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection
	Fabricated PVC fittings, Injection Moulded PVC Fittings UPVC Injection Moulded Fittings for SWR, Containers for Packaging of Natural Mineral Water and Packaged Drinking Water	Visual Appearance	IS:12786-89(RA2009)/ IS:13487-92(RA2009)/ IS:13488-2008 (RA2009)/ IS:14333-96(RA2007)/ IS:14482-97(RA 2009)/ IS:14787-2000(RA 2010)/ IS:14885 2001(RA2007)/ IS:15328-03(RA 2008)/ IS:15450-04/ IS:15778-07/ IS:15801-08 IS:10889 -1984(RA2003)/ IS:11805	Qualit	ative
2.	UPVC pipe for Potable Water Supplies , UPVC Screen and casing Pipes for Bore/Tube Well, UPVC Pipes for Soil and Waste Discharge System inside buildings including ventilation and Rain Water System, High Density Polyethylene Pipes for Potable Water Supplied, Polyethylene pipes for Irrigation Laterals	Opacity Hydraulic Characteristics (Acceptance & Type)	IS: 12235-2004 (Pt. 3) IS: 12235-2004 (Pt. 8)/ IS: 4984-95(RA 2005)/ IS:14151 (Pt-1)-99(RA2009) / IS:14151 (Pt-2)-2008 IS: 3076-85/ IS:4984:95 Annex B(RA2008)/ IS: 12786-89(RA2009)/ IS: 13487-92(RA2009)/ IS: 13488-2008(RA2009)/ IS: 13592-92 (RA 2008)/ IS: 14151(Pt-1)-99 (RA2009) / IS: 14151(Pt-2)-2008(RA2009) IS: 14333-96 Annex. B(RA200) IS: 14885-2001 Annex A(RA20) IS: 15778 : 2007/IS-15801 : 200	/ Qualit)/)7)/ 007)	ative

Laboratory	Central Institute of Plastics Engineering & Technology (CIPET), Plot No. J-3/2, MIDC Industrial Area, Chikalthana, Aurangabad, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	25.07.2014
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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
	Polyethylene, Rotational Moulded Polyethylene Water Storage tanks, Low	Resistance to External Blow at 0°C	IS:4985- 2000(RA 2005)/ IS:12818-2010/ IS:14787:2003(RA 2005)/ IS:14885 : 2001(RA 2007)	Qualitative
	Density Polyethylene Films. LDPE Pipes for potable water supplies UPVC single walled corrugated pipe for drainage, PE Pipes for Irrigation Laterals Irrigation	Density /Specific Gravity	IS:13360-95 Pt.3/Sec1) (RA 2003) IS:8543-1978 (RA 1999) (Part-III/Sec-2) IS:7328- 92(RA2008)/ IS : 12235 (Part 4) 2004(RA2009)/ASTM D792 -13 IS: 2508-1984 (RA2003)/ IS: 10889 -1984(RA2003)/ IS: 11805 -1989(RA2004)	Max : 3.0 g/cc
	Equipments – Emitters, HDPE Pipes for Sewerage, PE microtubes for drip irrigation, UPVC Pipes & Fittings for Telecommunication PE Pipes for Gaseous Fuel UPVC non pressure Pipes for SWR System PE/AI/PE composite pipe Chlorinated Polyvinyl Chloride, Pipes Polypropylene Random Copolymer pipes for hot and	Tensile Strength & Elongation	IS:8543-84 (Pt. 4 Sec-1) (RA2003) IS: 3076-85/ IS:12235(Pt-5)-2004(RA2009)/ IS:12235(Pt-13)-2004(RA2009)/ IS:12786-89/(RA1998) IS:13592-92 (RA2008)/ IS: 14151(Pt-1)-99(RA2009)/ IS:14333-96(RA2007)/ IS:14885-2001AnnexJ(RA2007)/ IS:15450:2004Annex.E(RA2009)/ IS:15478: 2007 ASTM- D-638-10 IS: 2508-1984 (RA2003)/ IS: 10889 -1984(RA2003)/ IS: 11805 -1989(RA2004)	0.01N to 10000 N & 0.1 to 2000%

Labo	oratory	Central Institute of Plastics Engineering & Technology (CIPET), Plot No. J-3/2, MIDC Industrial Area, Chikalthana, Aurangabad, Maharashtra			
Accı	reditation Standard	ISO/IEC 17025: 2005			
Disc	ipline	Mechanical Testing		Issue Date	25.07.2014
Cert	ificate Number	T-1756		Valid Until	24.07.2016
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specificat against which tests are performed		e of Testing / s of Detection
	supplies, Fabricated PVC fittings, Injection Moulded PVC Fittings UPVC Injection Moulded Fittings for SWR, Containers for Packaging of Natural Mineral Water and Packaged Drinking Water	Effect on Sunlight Water Tightness of Joint	IS:13592:1992(RA 2002) IS:13592:1992(RA 2002)	Qualit Qualit	
3.	UPVC Injection Moulded Fittings for	Fusion compatibility test	IS:14151-1999 (Pt.1) (RA2	, -	
	SWR	Fusion Compatibility test	IS:15801 : 2008	Qualit	ative
	Chlorinated Polyvinyl Chloride Pipes UPVC single walled	Hardness (Shore – A)	IS:14151-2008 (Pt.2) IS: 12818:2010/ IS: 5382:1986(RA2008)/ IS: 14151(Part 2)2008(RA2	1 to 10 2009)	00
	corrugated pipe for drainage UPVC non pressure	Leakage Test	IS:14151-2008 (Pt. 2) IS: 2798-1998(RA2009)	Qualit	ative
	Pipes for SWR	Weldability test	IS:14151-2008(Pt. 2) (RA2	.009) Qualit	ative
	System Sealing Ring Multilayered Cross	Net/Gross Capacity	IS:12701-1996(RA 2002)	1 to10	0,000 litres
	Laminated Sheet & Tarpaulins	Resistance to deformation	IS:12701-1996(RA 2002)	Qualit	ative
	Thermoplastic	Top load deformation	IS:12701-1996(RA 2002)	Qualit	ative.
	Fumigation Cover Textile - HDPE	Resistance to Impact	IS:12701-1996(RA 2002)	Qualit	ative
	Tarpaulin HDPE Woven Beds for Vermiculture	Impact Resistance	IS:2508 – 84(RA 2003)		

Vermiculture

Laboratory	Central Institute of Plastics Engineering & Technology (CIPET), Plot No. J-3/2, MIDC Industrial Area, Chikalthana, Aurangabad, Maharashtra		
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6.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	HDPE/ PP/ Woven Sacks	Flexural Modulus	IS:13360 – 95 (Pt. 5/Sec.7) ASTM D790-10	0.001N to 100000N
	UPVC pipe casing for Tube well/Bore well Irrigation Equipment - Sprinkler Pipes PE Pipes	Stress relief test	IS:13592-92(RA2008)/ IS: 7834-87 (Pt-1) 87Annex A. (RA2008)/ IS: 12235(Pt-6)-2004 (RA2009)// IS:14787-2000 (RA2010)/ IS:14735-99(RA2009)	Qualitative
		Resistance to External blows at 0°C / Impact Strength at 0°C	IS: 12235 (Pt-9)-2004/ (RA2009)/ IS:14735-99 Annex. C(RA2009)/ IS:15778 : 2007/IS 9271 :2004 Annex B(RA2009)/ IS: 15328 :2003 Annex B(RA2008)/	Qualitative
		Thermal Stability for 8760 Hrs	IS:15778 : 2007/ IS: 12235 :2004(Part 8/Sec 1) RA2009)/ IS: 15801 : 2008	Qualitative
		Flattening Test	IS 12235 (Part 19) :2004 (RA2009)/	Qualitative
		Charpy Impact Strength	IS: 15801 Annex B IS: 13360 (Part 5/ Sec.5)	0.001J to 25J
		Aging of Rubber Ring	IS: 12818: 2010/IS 5382:1986(RA2008)/ IS: 14151 (Part2)2008(RA2009) IS: 14151(Pt-2)-2008/(RA2009) IS: 7016 -1975(Part 8) (RA2006)/	Qualitative

Lab	oratory	Central Institute of Plastics Engineering & Technology (CIPET), Plot No. J-3/2, MIDC Industrial Area, Chikalthana, Aurangabad, Maharashtra			
Acc	reditation Standard	ISO/IEC 17025: 2005			
Disc	ipline	Mechanical Testing	ls	ssue Date	25.07.2014
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / of Detection
4.	Irrigation Equipments – Emitters & Emitting Pipes	Uniformity of emission Rate	IS: 13487-92(RA2009)/ IS:13488-2008(RA2009)/	0.1 to1	6 LPH
		Emission Rate as a function of Inlet Pressure	IS: 13487-92(RA2009)/ IS:13488-2008(RA2009)/	0.1 to1	6 LPH
		Determination of emitting unit exponent	IS:13488-2008(RA2009)/ IS:13487-92(RA2009)/ IS:13488-2008(RA2009)/	Qualita	tive
		Emitter pull out test	IS: 13487-92 (RA2009)/	40 N	
		Resistance to tension at	IS: 13488-2008(RA2009)/	Qualita	tive
		elevated temperature			
		Resistance to pull out of joints	IS: 13488-2008 (RA2009)/	Qualita	tive
5.	UPVC Pipes for	in the fitting emitting pipe Axial shrinkage	IS: 13592-92	Upto 5	0/
5.	SWR System	Axiai shi hikage	Annex A(RA2008)	0000	70
6.	UPVC Plain Screen and Casing pipes	Test for internal dia	IS: 12818-2010	33- 390)mm DN
7.	Multilayered Cross Laminated Sheet & Tarpaulins Thermoplastic Fumigation Cover	Water Repellency Test Water Proofness test	IS: 14611-98 (RA2008)/IS:13217-91(RA20 IS : 7016 -2008(Part 7) IS: 7940-1976 (RA2004)/ IS: 7941-1976 (RA2004)	Qualita 006)/	tive
	Textile - HDPE Tarpaulin HDPE Woven Beds for Vermiculture HDPE/ PP/ Woven Sacks	Welded seam strength	IS: 14611-98/ (RA2008)/IS:13217-91 IS : 7903:2011 (RA2010)/ IS :1969-1985(RA1999)/ IS: 7016 -1975(Part 8) (RA2006)/IS 15907-2010 IS: 9030 -1979 (RA2008)		o 100000 N
		Tear Strength Puncture Strength	IS: 7016 -1981(Part 3) (RA20 IS : 15907:2010 Annex C		o 100000 N o 100000 N
		- motore Strongui	12 · 10/07/2010 / miles C	0.001 (5 10000011

Labo	oratory		stics Engineering & Tech dustrial Area, Chikalthan		
Acci	reditation Standard	ISO/IEC 17025: 2005			
Disc	ipline	Mechanical Testing	ls	ssue Date	25.07.2014
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection
8.	Multilayered Cross Laminated Sheet & Tarpaulins Thermoplastic Fumigation Cover Textile - HDPE Tarpaulin HDPE Woven Beds for Vermiculture HDPE/ PP/ Woven Sacks Shade Net HDPE/ PP/ Woven Sacks	Mass of sack Avg. breaking strength of fabric / bottom Elongation at break of fabric Burst Pressure test Ends and Picks	IS:14887-2000/ IS : 15907:2010 IS : 1964 -2001(RA2006) IS :1969-1985(RA1999) IS :1969-1985(RA1999) IS 1966 -2009/ IS 7016 IS : 1954 :1990(RA2007)/	0.001 0.001	1 to 1000 g/m ² to 100000 N to1000% o 100 Kg/cm ²
9.	Containers for Packaging of Natural Mineral Water and Packaged Drinking Water	Workmanship/ finish/appearance/ Wall thickness Capacity Drop Test	IS:15410-2003(RA2009) IS: 2798-1998(RA2009) IS: 2798-1998(RA2009) IS: 2798-1998(RA2009)		to 75mm - 50000 litres
10.	Polyamide multifilament Ropes (Hawser laid and Plaited) Polyethylene Ropes - Textiles - High Strength Polyolefins Co-Polymers Ropes Poly propyl +N+ Ropes (3-stand Hawser laid & 8 Strand Plaited) Polyester & Poly propylene composite Ropes	Mass per coil Pitch / Length Linear Density Breaking Force	IS : 4572 – 1992 (RA2008) IS : 8674:1989 (RA2005) IS : 7071 (Part -2) 989(RA200 IS: 14929 : 2001/ IS: 5175 : 1992 (RA2003)/ IS : 7071 (Part 3) 1989, (RA20 IS : 7071 (Part 2) 1989 (RA20 IS : 7071 (Part 4) 1986 (RA20 IS: 14928-2001	0.001 003)/ 003)/	

Labo	oratory		stics Engineering & Tech dustrial Area, Chikalthana		
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection
S.No.		Specific Test Performed Compressive strength of rigid Plastics	against which tests are	Limit	