Laboratory	**Central Institute of Plastics Engineering & Technology, EPIP Complex, Hajipur Industrial Area, Hajipur, Vaishali, Bihar**		
Accreditation Standard	**ISO/IEC 17025: 2005**		
Certificate Number	**TC-6356** ***(in lieu of T-0765 & T-0766)***	**Page 1 of 12**	
Validity	**23.09.2017 to 22.09.2019**	**Last Amended on 27.09.2017**	

CHEMICAL TESTING

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	**PLASTICS AND RESINS**			
1.	**PLASTICS PIPES & ACCESSORIES**			
a.	**UPVC Pipes for Portable Water Supplies**	Vicat Softening Temp.	IS 12235 (Part 2): 2004 (RA 2009)	0.1 °C to 3 00 °C
		Sulphated Ash Content	IS 4985:2000 (RA 2010)	0.01 % to 90 %
		K value of PVC resin	IS 4669:1968 (RA 2008)	0.01 to 100
		Effect on Water Test	IS 12235 (Part 4, Part 10 & Part 11): 2004 (RA 2009)	0.001 mg/l to 100.0 mg/l
b.	**UPVC Screen and Casing Pipes for Bore / Tube Well**	K value of PVC resin	IS 4669:1968 (RA 2008)	0.01 to 100
		Vicat Softening Temp.	IS 12235 (Part 2): 2004 (RA 2009)	0.1 °C to 300 °C
		Effect on Water Test	IS 12235 (Part 4, Part 10 & Part 11): 2004 (RA 2009)	0.001 mg/l to 100.0 mg/l
c.	**RPVC Pipes for Use as Underground Cable Conduits In Concrete/Sand Encasement DOT Specification**	Stress Relief Test	IS 12235 (Part 6): 2004 (RA 2009)	Qualitative
d.	**High Density PE Pipes for Potable Water Supplies**	Carbon Black Content	IS 2530:1963 (RA 2008)	0.01 % to 90 %
		Carbon Black Dispersion	IS 2530:1963 (RA 2008)	Qualitative
		Migration Test	IS 9845:1998 (RA 2010)	0.001 mg/l to 100 mg/l 0.001 mg/dm^2 to 100 mg/dm^2
e.	**UPVC Pipe for**	K value of PVC resin	IS 4669:1968 (RA 2008)	0.01 to 100

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Soil and Waste Discharge System Inside & Outside Building Including Ventilation and Rain Water System	Resistance to Sulphuric Acid	IS 12235 (Part 7): 2004 (RA 2009)	0.0001 gm to 10 gm
		Vicat Softening Temp	IS 12235 (Part 2): 2004 (RA 2009)	1 °C to 300 °C
		Resistance to dichloromethane at specified temp.	IS 12235 (Part 11): 2004 (RA 2009)	Qualitative
f.	**Polyethylene Pipes for Irrigation Laterals Specification**	Carbon Black Content	IS 2530:1963 (RA 2008)	0.01 % to 90 %
		Carbon Black Dispersion	IS 2530:1963 (RA 2008)	Qualitative
		Susceptibility to environmental Stress Cracking	IS 12786:1989 (RA 2009)	Qualitative
g.	**Quick Coupled Pipe & Fittings**	Carbon Black Content	IS 14151 (Part 1): 1999 (RA 2009) & IS 2530:1963 (RA 2008)	0.01 % to 90 %
		Carbon Black Dispersion	IS 14151 (Part 1): 1999 (RA 2009) & IS 2530:1963 (RA 2008)	Qualitative
		Quick Coupled Fittings (HDPE Coupler)		
		Carbon Black Content	IS 14151 (Part 1): 1999 (RA 2009) & IS 2530:1963 (RA 2008)	0.01 % to 90 %
		Carbon Black Dispersion	IS 14151 (Part 1): 1999 (RA 2009) & IS 2530:1963 (RA 2008)	Qualitative
h.	**Irrigation Equipment Sprinkler Pipe – Specification Polyethylene Pipe**	Carbon Black Content	IS 14151 (Part 1): 1999 (RA 2009) & IS 2530:1963 (RA 2008)	0.01 % to 90 %
		Carbon Black Dispersion	IS 14151(Part 1): 1999 (RA 2009) & IS 2530:1963 (RA 2008)	Qualitative
i.	**CPVC Pipes for**	Effect on Water Test	IS 4985:2000 (RA 2010) &	0.001 mg/l to 100.0 mg/l

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	portable Hot and Cold Water Distribution Supply		15778:2007	
2.	**Packaging & Container**			
a.	**High Density Polyethylene (HDPE) Crates for Milk Satchets**	Resistance to Stress	IS 11584:1986 (RA 2009)	Qualitative
b.	**Containers for Packaging of Natural Mineral Water and Packaged Drinking Water**	Migration Test	IS 9845:1998	0.01 mg/l to 100 mg/l 0.01 mg/dm^2 to 100 mg/dm^2
3.	**Plastics Films**			
a.	**Low-Density Polyethylene Films**	Carbon Black Content	IS 2530:1963 (RA 2008)	0.01 % to 90 %
		Carbon Black Dispersion	IS 2530:1963 (RA 2008)	Qualitative
		Migration Test	IS 9845:1998 (RA 2010)	0.001 mg/l to 100 mg/l 0.001 mg/dm^2 to 100 mg/dm^2
b.	**Polyethylene Pouches for Packaging Liquid Milk-Specification**	Ink Adhesion Test (Printing Requirement)	IS 11805:2007	Qualitative
4.	**Moulded Component**			
a.	**Rotational Moulded Polyethylene Water Storage Tanks**	Carbon Black Content	IS 2530:63 (RA 2008)	0.01 % to 90 %
		Carbon Black Dispersion	IS 2530:63 (RA 2008)	Qualitative
		Migration Test in Distilled Water	IS 9845:1998 (RA 2010)	0.001 mg/l to 100 mg/l 0.001 mg/dm^{2}to 100 mg/dm^2
b.	**Injection Moulded**	Effect on Water Test	IS 7834 (Part-1):1987 (RA-	0.001 mg/l to 100.0 mg/l

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	PVC Fittings with Solvent Cement Joints for Water Supplies		2006)	

MECHANICAL TESTING

I.	**PLASTICS AND PLASTIC PRODUCTS**			
1.	**Plastics Pipes & Accessories**			
a.	**Unplasticized PVC Pipes for Portable Water Supplies**	Dimension	IS 12235 (Part 1): 2004 (RA 2009)	0.1 mm to 400 mm
		Visual appearance	IS 4985:2000 (RA 2010)	Qualitative
		Opacity	IS 12235 (Part 3): 2004	0.001 % to 100 %
		Density	IS 12235 (Part 14): 2004 (RA 2009)	0.1 g/cc to 2.0 g/cc
		Reversion Test	IS 12235 (Part 5): 2004 (RA 2009)	0.1 % to 100 %
		Hydrostatic Characteristics (Acceptance & Type test)	IS 12235 (Part 8): 2004 (RA 2009)	Qualitative
		Resistance to External Blow at 0°C (Free Fall)	IS 4985:2000 (RA 2010)	Qualitative
b.	**Unplasticized PVC Screen and Casing Pipe for Bore/Tube Well**	Visual appearance	IS 12818:2010	Qualitative
		Colour	IS 12818:2010	Qualitative
		Dimension	IS 12235 (Part 1): 2004 (RA 2009)	0.1 mm to 400 mm
		Internal diameter	IS 12818-2010	33 mm to 236 mm
		Density	IS 12235 (Part 14): 2004 (RA 2009)	0.1 g/cc to 2.0 g/cc
		Resistance to external blow at 0^0C (Free Fall)	IS 12235 (Part 9): 2004 (RA 2009)	Qualitative

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Tensile Strength	IS 12235 (Part 13): 2004 (RA 2009)	0.1 MPa to 1000 MPa
		Thread Checking	IS 12818:2010	40 mm to 400 mm
		Dimension of seal ring	IS 12818:2010	40 mm to 400 mm
		Hardness of seal ring	IS 12818:2010	1 to 100
3.	**RPVC Pipes for Use as Underground Cable Conduits In Concrete/ Sand Encasement DOT Specification G/CDS-03/02Oct. 9**	Dimension	IS 4985:2000 (RA 2010)	0.01 mm to 110 mm
		Load Deformation	ASTM D 2412	0.1 kN to 10 kN
		Impact Resistance (Free Fall)	IS 12235 (Part 9): 2004 (RA 2009)	Qualitative
		Reversion Test	IS 12235 (Part 5): 2004 (RA 2009)	0.1 % to 100 %
4.	**High Density Polyethylene Pipes for Potable Water Supplies**	Colour	IS 4984:1995 (RA 1995)	Qualitative
		Dimension	IS 4984:2016	16 mm to 400 mm
		Length of pipe	IS 4984:2016	1 mm to 10000 mm
		Visual Appearance	IS 4984:2016	Qualitative
		Performance Requirement (acceptance and Type test)	IS 4984:2016	Qualitative
		Reversion Test	IS 4984:2016	0.1 % to 100 %
		Density	IS 7328:1992 (RA 2008)	0.1 g/cc to 2.0 g/cc
		Melt Flow Index	IS 2530:1963 (RA 2008)	0.001 g/10 min. to 50 g/10 min.
5.	**UPVC Pipe for Soil and Waste Discharge System Inside and Outside Building Including Ventilation and Rain Water**	Colour	IS 13592:2013	Qualitative
		Dimension of Pipe	IS 13592:2013	16 mm to 400 mm
		Length of pipe	IS 13592:2013	1 mm to 10000 mm
		Dimension of Grooved Socket	IS 13592:2013	16 mm to 400 mm
		Visual Appearance	IS 13592:2013	Qualitative
		Reversion Test	IS 12235 (Part 5) (RA 2009)	0.1 % to 100 %
		Stress relief test	IS 12235 (Part 6) (RA 2009)	Qualitative

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	System	Effect on Sunlight	IS 13592:2013	0.5 MPa to 180 MPa
		Resistance to external blow at 0 °C	IS 12235 (Part 9) (RA 2009)	Qualitative
		Tensile Strength	IS 12235 (Part 13) (RA 2009)	0.05 MPa to 180 MPa
		Axial Shrinkage	IS 13592:2013	0.01 % to 50 %
		Water tightness of Joint	IS 13592:2013	Qualitative
6.	**Quick Coupled Pipe & Fittings**	Dimension	IS 14151 (Part 1): 1999 (RA 2009)	40 mm to 200 mm
		Visual Appearance	IS 14151 (Part 1): 1999 (RA 2009)	Qualitative
		Hydraulic characteristics Acceptance Test & Quality Test)	IS 14151 (Part 1): 1999 (RA 2009)	Qualitative
		Reversion	IS 14151 (Part 1): 1999 (RA 2009)	0.1 % to 100 %
		Tensile Strength	IS 14151 (Part 1): 1999 (RA 2009)	0.05 MPa to 180 MPa
		Elongation at break	IS 14151 (Part 1): 1999 (RA 2009)	0.1 % to 1000 %
		Fusion Compatibility (Acceptance Test & Quality Test)	IS 14151 (Part 1): 1999 (RA 2009)	Qualitative
		Density	IS 14151 (Part 1): 1999 (RA 2009)	0.1 kg/m^3 to 2000.00 kg/m^3
		Melt Flow Index	IS 14151 (Part 1): 1999 (RA 2009)	0.1 g/10 min. to 50 g/10 min.
		Quick Coupled Fittings (HDPE Coupler)		
		Density	IS 14151 (Part 1): 1999 (RA 2009)	0.1 kg/m^3 to 2000.00 kg/m^3
		MFI	IS 14151 (Part 1): 1999 (RA 2009)	0.1 g/10 min. to 50 g/10 min.
		Workmanship &	IS 14151 (Part 2): 2008	Qualitative

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Appearance		
		Holding attachments for coupler parts	IS 14151 (Part 2): 2008	Qualitative
		Shore Hardness before ageing	IS 14151 (Part 2): 2008	0.1 to 100
		Shore hardness after ageing	IS 14151 (Part 2): 2008	0 .1 to 100
7.	**Irrigation Equipment Sprinkler Pipe – Specification Polyethylene Pipe**	Dimension	IS 14151 (Part 1): 1999 (RA 2009)	40 mm to 200 mm
		Visual Appearance	IS 14151 (Part 1): 1999 (RA 2009)	Qualitative
		Hydraulic Characteristics Acceptance Test & Quality Test)	IS 14151 (Part 1): 1999 (RA 2009)	Qualitative
		Reversion	IS 14151 (Part 1): 1999 (RA 2009)	0.1 % to 100 %
		Tensile Strength	IS 14151 (Part 1): 1999 (RA 2009)	0.05 MPa to 180 MPa
		Elongation at break	IS 14151 (Part 1): 1999 (RA 2009)	0.1 % to 1000 %
		Fusion Compatibility (Acceptance Test & Quality Test)	IS 14151 (Part 1): 1999 (RA 2009)	Qualitative
		Density	IS 7328:1992 (RA 2008)	1 kg/m^3 to 2000.00 kg/m^3
		Melt Flow Index	IS 14151(Part 1): 1999 (RA-2009	0.01 g/10 min. to 50 g/10 min.
8.	**Irrigation Equipment- Polyethylene Pipes for Irrigation Laterals Specification**	Dimension	IS 12786:1989 (RA 2009)	0.1 mm to100 mm
		Visual Appearance	IS 12786:1989 (RA 2009)	Qualitative
		Hydrostatic Characteristics (Quality Test & Acceptance Test)	IS 12786:1989 (RA 2009)	Qualitative

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Reversion Test	IS 12786:1989 (RA 2009)	0.1 % to 100 %
		Tensile Strength	IS 12786:1989 (RA 2009)	0.1 MPa to 180 MPa
2.	**Packaging & Container**			
a.	**Textile-Woven Sacks for Packing Cement High Density Poly Ethylene (HDPE)/ Poly Propylene (PP)**	Seam	IS 11652:2000 (RA 2010)	0.1 N to 10000 N
		Dimension	IS 11652:2000 (RA 2010)	1 mm to 5000 mm
		Ends Per dm	IS 11652:2000 (RA 2010)	1 Nos to100 Nos
		Picks per dm	IS 11652:2000 (RA 2010)	1 Nos to 100 Nos
		Mass of Sack	IS 11652:2000 (RA 2010)	0.01g to 200 g
		Average breaking strength of fabric, N (Kgf), Min.(Ravelled strip method) (20 mm x 200 mm)	IS: 1969 -1985(RA-2010)	0.01 N to10000 N
		Elongation at break of fabric (Ravelled strip method)	IS 1969:1985 (RA 2010)	0.1 % to 1000 %
b.	**High Density Polyethylene (HDPE) Crates for Milk sachets**	Density	IS 7328:1992 (RA 2008)	0.001 Kg/m^3 to 2000.0 Kg/m^3
		Shape & Dimension	IS 11584:1996 (RA 2009)	0.5 mm to 1000 mm
		Mass	IS 11584:1996 (RA 2009)	0.1 g to 6000 g
		Appearance & Surface Finish	IS 11584:1996 (RA 2009)	Qualitative
		Resistance to applied load	IS 11584:1996 (RA 2009)	Qualitative
		Resistance to drop (Free Fall)	IS 11584:1996 (RA 2009)	Qualitative
		Resistance to low temperature drop	IS 11584:1996 (RA 2009)	Qualitative.
		Dimensional Stability	IS 11584:1996 (RA 2009)	0.01 % to 100.0 %

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
c.	**Plastics Bottles/ Containers for Packaged Natural Mineral Water and Packaged Drinking Water**	Material Identification	IS 13360 (Part 6 & Sec 10): 2013 (RA 2003) ISO 3451-I (Part 1) Method A	Qualitative
		Manufacture, Workmanship, Finish & Appearance	IS 15410:2003 (RA 2009)	Qualitative
		Capacity	IS 2798:1998 (RA 2009) (Clause 5)	0.1 ml to 50000 ml
		Wall Thickness	IS 2798:1998 (RA 2009) (Clause 4.5)	0.01 mm to 25 mm
		Transparency	IS 15410:2003	0.001 % to 100 %
		Leakage Test	IS 2798:1998 (RA 2009)	Qualitative
		Drop Test	IS 2798:1998 (RA 2009) (Clause 8)	Qualitative
		Water Potability	IS 15410:2003 (RA-2009)	Qualitative
d.	**Textile High Density Polyethylene (HDPE)/ Polypropylene (PP) Woven Sack for packaging 10kg, 20kg, 25kg & 30 kg Food Grains- Specification**	Dimension of Fabric	IS 16208:2015	0.01 mm to 1000 mm
		Liner Density	IS 16208:2015	0.1 denier to 900 denier
		Dimension of Woven Sack	IS 16208:2015	0.01 mm to 1000 mm
		Ends per dm	IS 16208:2015	1 Nos to 100 Nos
		Pick per dm	IS 16208:2015	1 Nos to 100 Nos
		Mass of sack	IS 16208:2015	0.1 g to 600 g
		Average Breaking Strength of fabrics	IS 1969 (Part 1): 2009	0.1 kgf to 1000 kgf
		Elongation at break of fabric	IS 1969 (Part 1): 2009	0.1 % to 1000 %
		Minimum Breaking Strength of Bottom Seam	IS 1969 (Part 1): 2009	0.1 kgf to 1000 kgf
		Ash content	IS 16208:2015	0.1 % to 100 %
e.	**Textile- High Density**	Dimension of Fabric	IS 14252:2015	0.01 mm to 1000 mm
		Liner Density	IS 14252:2015	0.1 denier to 900 denier

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Polyethylene (HDPE)/ Polypropylene (PP) Woven Sacks for filling sand Specification	Dimension of Woven Sack	IS 14252:2015	0.01 mm to 1000 mm
		Ends per dm	IS 14252:2015	1 Nos to 100 Nos
		Pick per dm	IS 14252:2015	1 Nos to 100 Nos
		Mass of sack	IS 14252:2015	0.1 g to 600 g
		Average Breaking Strength of fabrics	IS 1969 (Part 1): 2009	0.1 kgf to 1000 kgf
		Elongation at break of fabric	IS 1969 (Part 1): 2009	0.1 % to 1000 %
		Minimum Breaking Strength of Bottom Seam	IS 1969 (Part 1): 2009	0.1 kgf to 1000 kgf
		Ash content	IS 14252:2015	0.1 % to 100 %
f.	**Textile- High Density Polyethylene (HDPE)/ Polypropylene (PP) Woven sacks for packaging 50kg/25kg food grains**	Dimension of Fabric	IS 14887:2014	0.01 mm to1000 mm
		Liner Density	IS 14887:2014	0.1 denier to 900 denier
		Dimension of Woven Sack	IS 14887:2014	0.01 mm to 1000 mm
		Ends per dm	IS 14887:2014	1 Nos to 100 Nos
		Pick per dm	IS 14887:2014	1 Nos to 100 Nos
		Mass of sack	IS 14887:2014	0.1 g to 600 g
		Average Breaking Strength of fabrics	IS 1969 (Part 1): 2009	0.1 kgf to 1000 kgf
		Elongation at break of fabric	IS 1969 (Part 1): 2009	0.1 % to 1000 %
		Minimum Breaking Strength of Bottom Seam	IS 1969 (Part 1): 2009	0.1 kgf to 1000 kgf
		Ash content	IS 14887:2014	0.1 % to 100 %
3.	**Plastics Films**			
a.	**Low Density Polyethylene films**	Density	IS 2508:2016	0.001 g/ml to 2.0 g/ml
		Melt Flow Rate	IS 2508:2016	0.01 g/10min. to 50 g/10min.
		Thickness	IS 2508:2016	1to 1000 micron

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Width	IS 2508:2016	0.5 mm to 10000 mm
		Tensile Strength & Elongation at Break	IS 2508:2016	0.01 kgf/cm^2 to 1000 kgf/cm^2 0.1 % to1000 %
		Gloss	IS 2508:2016	1 % to 100 %
		Haze	IS 2508:2016	1 % to 100 %
		Dart Impact Resistance	IS 2508:2016	1 g to 1000 g
		Slip	IS 2508:2016	0.1 to 100
b.	**Polyethylene Pouches for Packaging Liquid Milk Specification**	Odour	IS 11805:2007	Qualitative
		Thickness	IS 11805:2007	1 micron to 1000 micron
		Width	IS 11805:2007	1 mm to 10000 mm
		Tensile Strength & Elongation at break	IS 2508:2016	0.01 kgf/cm^2 to1000 kgf/cm^2 0.1 % to1000 %
		Dart Impact Resistance (Free Fall)	IS 2508:2016	1 g to 1000 g
		Slip	IS 2508:2016	0.1 to 100
		Leak test	IS 11805:2007	Qualitative
		Drop test	IS 11805:2007	Qualitative
4.	**Moulded Component**			
a.	**Injection Moulded PVC Fitting with Solvent Cement Joints for Water Supplies**	Dimension	IS 7834:1987 (RA 2008)	0.1 mm to 400 mm
		Opacity	IS 7834:1987 (RA 2008)	0.001 % to 100 %
		Short Term Hydraulic Test	IS 7834:1987 (RA 2008)	Qualitative
		Stress Relief Test	IS 7834:1987 (RA 2008)	Qualitative
b.	**Fabricated PVC Fittings for Potable Water Supplies**	Dimension	IS 10124 (Part 1): 98 (RA 2009)	0.1 mm to 400 mm
		Opacity	IS 10124 (Part 1): 98 (RA 2009)	0.001 % to 100 %
		Short Term Hydraulic Test	IS 10124 (Part 1): 98 (RA 2009)	Qualitative
c.	**Rotational Moulded Polyethylene**	Dimension (For vertical & loft tank)	IS 12701:1996 (RA 2017)	0.01 mm to 20000 mm
		Net /Gross Capacity	IS 12701:1996 (RA 2017)	0.1 l to 20000 l

Laboratory	**Central Institute of Plastics Engineering & Technology, EPIP Complex, Hajipur Industrial Area, Hajipur, Vaishali, Bihar**	
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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	water storage tanks	Height, Diameter (Overall & Manhole)	IS 12701:1996 (RA 2017)	0.1 mm to 5000 mm
		Internal dia of man hole/ head hole	IS 12701:1996 (RA 2017)	1 mm to 500 mm
		Wall Thickness	IS 12701:1996 (RA 2017)	0.01 mm to 25 mm
		Weight	IS 12701:1996 (RA 2017)	0.5 kg to 600 kg
		Finish	IS 12701:1996 (RA 2017)	Qualitative
		Resistance to Impact (Free Fall)	IS 12701:1996 (RA 2017)	Qualitative
		Resistance to Deformation	IS 12701:199 (RA 2017)	0.01 % to 10.0 %
		Top Load Resistance	IS 12701:1996 (RA 2017)	Qualitative
		Tensile Strength	IS 8543 (Part 5 & Sec 1): 1984	0.1 N/mm^2 to 10000 N/mm^2
		Flexural Modulus	IS 13360 (Part 5 & Sec 7): 2017	0.1 N/mm^2 to 10000 N/mm^2
		Melt Flow Rate	IS 2530:2008	0.01 g/10 min. to 50 g/10 min.
		Density	IS 7328:2008	0.1 kg/m^3 to 2000.0 kg/m^3

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