National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

SCOPE OF ACCREDITATION

Laboratory Name	CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY (CIPET), PLOT NO.630, PHASE- IV, AHMEDABAD, GUJARAT, INDIA		
Accreditation Standard	ISO/IEC 17025:2005		
Certificate Number	TC-8164	Page No. :	1 / 11
Validity	30/11/2018 to 29/11/2020	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	CHEMICAL- PLASTIC & RESINS	gas pipes	Resistance to Weathering	IS 14885: 2001	Qualitative
2	CHEMICAL- PLASTIC & RESINS	raw material, products	HDT	ASTM D 648: 2007	40 C to 300 C
3	CHEMICAL- PLASTIC & RESINS	containers	overall migration	IS 15410: 2003	0.001 mg/lit. to 100 mg/lit.
4	CHEMICAL- PLASTIC & RESINS	emitting pipe	Susceptibility to Environmental Stress Cracking	IS 13488: 2008	Qualitative
5	CHEMICAL- PLASTIC & RESINS	film	overall migration	IS 15609: 2005	0. 001 mg/dm2 to 100.0 mg/dm2
6	CHEMICAL- PLASTIC & RESINS	film	transparancy	IS: 15410: 2003	0 % to 100 %
7	CHEMICAL- PLASTIC & RESINS	fittings	Stress Relief Test	IS 7834(Pt,1,3,6,8): 1987	Qualitative
8	CHEMICAL- PLASTIC & RESINS	hdpe pipes	Carbon Black Dispersion	IS 2530: 1963	Qualitative
9	CHEMICAL- PLASTIC & RESINS	hdpe pipes, black master batch	Carbon Black Content	IS 2530: 1963	0.0 % to 70 %
10	CHEMICAL- PLASTIC & RESINS	HDPE pipes, packaging films, containers	overall migration	IS 9845: 1998	0. 01 mg/lit. to 100 mg/lit.
11	CHEMICAL- PLASTIC & RESINS	HDPE pipes, sprinkler and raw material	Melt Flow Index	IS 13360: 2000	0.001 g/10 minute to 60 g/10 minute
12	CHEMICAL- PLASTIC & RESINS	HDPE pipes, sprinkler pipe and raw material	Melt Flow Index	IS 2530: 1963	0.001 g/10 minute to 50 g/10 minute
13	CHEMICAL- PLASTIC & RESINS	HDPE Pipes, sprinkler pipes and raw material	Melt Flow Index	ASTM D 1238: 2010	0.001 g/10 minute to 50 g/10 minute

SCOPE OF ACCREDITATION

Laboratory Name: CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY (CIPET), PLOT NO.630, PHASE- IV, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard: ISO/IEC 17025:2005

Certificate Number: TC-8164 | Page No. : 2 / 11

Validity: 30/11/2018 to 29/11/2020 | Last Amended on : -

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14	CHEMICAL- PLASTIC & RESINS	lateral pipe	Susceptibility to Environmental Stress Cracking	IS 12786: 1989	Qualitative
15	CHEMICAL- PLASTIC & RESINS	pipe	Melt flow index	IS 16098: 2013	0.001 g/10 minute to 50 g/10 minute
16	CHEMICAL- PLASTIC & RESINS	pipe	Resistance to Sulphuric Acid	IS 12235: 2004	0.1 to 10.0
17	CHEMICAL- PLASTIC & RESINS	PIPE, RAW MATERIAL	OXIDATION INDUCTION TIME	ASTMD 3895: 2007	0.1 MINUTES to 400 MINUTES
18	CHEMICAL- PLASTIC & RESINS	pipes	Sulphated Ash Content	IS 14735: 1999	0.001 % to 80.0 %
19	CHEMICAL- PLASTIC & RESINS	pipes	Sulphated Ash Content	IS 4985: 2000	0.001 % to 80.0 %
20	CHEMICAL- PLASTIC & RESINS	pipes	Vicat Softening Temperature	ASTM D 1525: 2009	50.0 °C to 200 °C
21	CHEMICAL- PLASTIC & RESINS	pipes	Vicat Softening Temperature	IS 15328: 2003	50.0 °C to 200 °C
22	CHEMICAL- PLASTIC & RESINS	pipes	Vicat Softening Temperature	IS 13360 : 1999	50.0 °C to 200 °C
23	CHEMICAL- PLASTIC & RESINS	pipes	Vicat Softening Temperature	IS 12235: 2004	50.0 °C to 200 °C
24	CHEMICAL- PLASTIC & RESINS	pipes	Vicat Softening Temperature	IS 6307: 1985	50.0 °C to 200 °C
25	CHEMICAL- PLASTIC & RESINS	pipes, raw material	oxidation induction time	IS 14885: 2001	0. 1 MINUTES to 180 MINUTES
26	CHEMICAL- PLASTIC & RESINS	pipes, tanks, films, woven sacks, flexible packaging film,	Stress Relief Test	IS 12235(Pt.6): 2004	Qualitative

SCOPE OF ACCREDITATION

Laboratory Name	CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY (CIPET), PLOT NO.630, PHASE- IV, AHMEDABAD, GUJARAT, INDIA		
Accreditation Standard	ISO/IEC 17025:2005		
Certificate Number	TC-8164	Page No. :	3 / 11
Validity	30/11/2018 to 29/11/2020	Last Amended on	-

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27	CHEMICAL- PLASTIC & RESINS	RAW MATERIAL, PIPES	CARBON BLACK CONTENT	ASTM D 1603: 2006	0. 01 % to 70 %
28	CHEMICAL- PLASTIC & RESINS	RESINS	CHLORINE CONTENT	IS:15778: 2007	0.01 to 80
29	CHEMICAL- PLASTIC & RESINS	SWR PIPES	Axial Shrinkage	IS 13592: 2013	0.01 % to 50 %
30	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	pipe	Visual Appearance	IS12818: 2010	Qualitative
31	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	tanks	Dimension	IS 12701: 1996	10 mm to 5000 mm
32	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	C PVC pipe	dimensions	IS 15778: 2007	0.0 mm to 600 mm
33	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	container	dimensions	IS 15410: 2003	0.0 mm to 600.0 mm
34	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	CPVC pipe	Visual Appearance	IS 15778: 2007	Qualitative
35	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	emiiter	Uniformity of emission Rate	IS : 13487 : 1992	0.5 lph to 14 lph
36	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	emitter	Emitter Pull-out	IS : 13487: 1992	Qualitative
37	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	emitters	Flow Path in Emitter	IS : 13487 : 1992	0 mm to 8 mm

SCOPE OF ACCREDITATION

Laboratory Name: CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY (CIPET), PLOT NO.630, PHASE- IV, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard: ISO/IEC 17025:2005

Certificate Number: TC-8164 | Page No. : 4 / 11

Validity: 30/11/2018 to 29/11/2020 | Last Amended on : -

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38	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	emitters	Visual Appearance	IS 13487: 1992	Qualitative
39	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Emitting pipe	Dimension	IS 13488: 2008	0.0 mm to 600 mm
40	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Emitting pipe	Hydraulic Characteristics(Acceptance & Type)	IS 13488: 2008	Qualitative
41	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Emitting pipe	Pull-out	IS : 13488: 2008	Qualitative
42	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Emitting pipe	Spacing of Emitting Unit	IS : 13488: 2008	0 mm to 600 mm
43	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	film	Dimension	IS 2508: 1984	0.0 mm to 600 mm
44	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	film	Slip/COF	ASTM D 1894: 2014	0.05 to 5.0
45	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	FILM	Trapezoid Tear	IS 14293: 1995	1.0 N to 1000 N
46	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	film, tank and pipe	Visual Appearance	IS 13488: 2008	Qualitative
47	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	fittings	Dimension	IS7834(PART 1,3,6,8): 1987	0.0 mm to 600 mm

SCOPE OF ACCREDITATION

Laboratory Name	CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY (CIPET), PLOT NO.630, PHASE- IV, AHMEDABAD, GUJARAT, INDIA		
Accreditation Standard	ISO/IEC 17025:2005		
Certificate Number	TC-8164	Page No. :	5 / 11
Validity	30/11/2018 to 29/11/2020	Last Amended on	-

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48	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	fittings	Opacity	IS 7834(PART 1,3,8): 1987	0.0 % to 100 %
49	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	HDPE material	Specific Gravity/ DENSITY	IS 7328: 2002	0.3 g/cc to 0.7 g/cc
50	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	HDPE pipe	Hydraulic Characteristics(Acceptance & Type)	IS 14333:: 1996	Qualitative
51	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	HDPE pipe	Visual Appearance	IS 14333: 1996	Qualitative
52	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	non cellular plastic	Specific Gravity/ DENSITY	IS: 13360: 1996	0.3 g/cc to 2.2 g/cc
53	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	particle board	Modulus of Rupture	IS : 2380 : 1981	0.1 MPa to 4000 MPa
54	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	PE flexible pouch	dimensions	IS 15609: 2005	0.0 mm to 600.0 mm
55	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	PE flexible pouch	Visual Appearance	IS 2508: 2016	Qualitative
56	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	PE pipe	Hydraulic Characteristics(Acceptance & Type)	IS : 14885: 2001	Qualitative
57	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	PE pipe	Reversion	IS: 4984: 2016	0.0 % to 100 %

SCOPE OF ACCREDITATION

Laboratory Name	CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY (CIPET), PLOT NO.630, PHASE- IV, AHMEDABAD, GUJARAT, INDIA		
Accreditation Standard	ISO/IEC 17025:2005		
Certificate Number	TC-8164	Page No. :	6 / 11
Validity	30/11/2018 to 29/11/2020	Last Amended on	-

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58	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	PE pipe	Visual Appearance	IS 12786: 1989	Qualitative
59	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	PE pipes	Dimension	IS: 4984: 2016	0.0 mm to 600.0 mm
60	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	PE PIPES	Visual Appearance	IS:4984: 2016	Qualitative
61	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	PE PIPES	Visual Appearance	IS 14885: 2001	Qualitative
62	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	pipe	Dimension	IS 12786: 1989	0.0 mm to 600 mm
63	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	pipe	dimensions	IS 14333: 1996	0.0 mm to 600.0 mm
64	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	pipe	dimensions	IS14885: 2001	0.0 mm to 600.0 mm
65	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	pipe	dimensions	IS 4985 : 2000	0.0 mm to 600.0 mm
66	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	pipe	Fusion compatibility test	IS: 14151 (Pt. 1)- : 1999	Qualitative
67	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	pipe	Hydraulic Characteristics(Acceptance & Type)	IS 4984: 2016	Qualitative

SCOPE OF ACCREDITATION

Laboratory Name	CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY (CIPET), PLOT NO.630, PHASE- IV, AHMEDABAD, GUJARAT, INDIA		
Accreditation Standard	ISO/IEC 17025:2005		
Certificate Number	TC-8164	Page No. :	7 / 11
Validity	30/11/2018 to 29/11/2020	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
68	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	pipe	Hydraulic Characteristics(Acceptance & Type)	IS: 12235: 2004	Qualitative
69	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	pipe	Hydraulic Characteristics(Acceptance & Type)	IS 12786: 1989	Qualitative
70	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	pipe	Hydraulic Characteristics(Acceptance & Type)	IS 14151(PART 1) : 1999	Qualitative
71	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	pipe	Resistance to External Blow at 0°C	IS:4985: 2000	Qualitative
72	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	pipe	Specific Gravity/ DENSITY	IS 16098 (PART 1 & 2):: 2013	0.3 g/cc to 2.2 g/cc
73	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	pipe	Visual Appearance	IS 15801: 2008	Qualitative
74	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	pipe	Visual Appearance	IS 16098(PART 1& 2): 2013	Qualitative
75	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	pipe fittings	Visual Appearance	IS 7834: 1987	Qualitative
76	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	pipe	Hydraulic Characteristics(Acceptance & Type)	IS : 14885: 2001	Qualitative
77	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	pipe, film, raw material	Tensile Strength & Elongation	IS:8543 : 1984	0.1 % to 1400 %

SCOPE OF ACCREDITATION

Laboratory Name	CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY (CIPET), PLOT NO.630, PHASE- IV, AHMEDABAD, GUJARAT, INDIA		
Accreditation Standard	ISO/IEC 17025:2005		
Certificate Number	TC-8164	Page No. :	8 / 11
Validity	30/11/2018 to 29/11/2020	Last Amended on	-

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78	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	pipe, fittings	Opacity	IS: 12235: 2004	0.0 % to 100 %
79	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	pipes	Dimension	IS 14151(PART 1): 1999	0 mm to 600.0 mm
80	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	pipes	dimensions	IS 16098(PART 1& 2): 2013	0.0 mm to 600.0 mm
81	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Pipes & fittings	dimensions	IS 12235: 2004	0.0 mm to 600.0 mm
82	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastics	Flexural Modulus	IS : 13360: 1996	0.1 MPa to 2000 MPa
83	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastics	Izod impact strength	IS 13360(Pt 5/Sec IV):: 1996	1.0 J/m to 2000 J/m
84	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastics	Izod impact strength	ASTM D 256: 2010	1 j/m to 2000 J/m
85	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastics	Specific Gravity/ DENSITY	ASTM D 792: 2013	0.3 g/cc to 2.2 g/cc
86	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	PP random copolymer pipe	dimensions	IS 15801: 2008	0 mm to 600.0 mm
87	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	pvc pipes, lateral pipe, sprinkler pipe	Reversion	IS: 12235: 2004	0.0 % to 30 %

SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025:2005		
Certificate Number	TC-8164	Page No. :	9 / 11
Validity	30/11/2018 to 29/11/2020	Last Amended on	-

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88	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	PVC U pipe	Visual Appearance	IS 15328: 2003	Qualitative
89	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	raw material	Charpy impact strength	IS 13360 (Pt/Sec V):1996 Reaffirmed: 2003	1.0 KJ/m^2 to 700 KJ/m^2
90	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	raw material, sheet	Flexural Modulus	ASTM D 790: 2017	0.1 MPa to 2000 MPa
91	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Rigid Plastic	Compressive strength of rigid plastics	ASTM D 695: 2015	5 MPa to 5000 MPa
92	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Rubber	Hardness (Shore –A)	IS 3400(Pt 2): 2003	20 to 90
93	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Rubber , Plastic	Hardness (Shore –A & D)	ASTM D 2240: 2015	20 to 90
94	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	sheet	Charpy impact strength	ASTM D-6110: 2010	1.0 KJ/m2 to 700 KJ/m2
95	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	socket fitting PVC	Hydraulic Characteristics(Acceptance & Type)	IS 7834(PART1,3,6,8):: 1987	Qualitative
96	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Sprinkler pipe	Leakage Test	IS: 14151 (Pt. 2)-: 2008	Qualitative
97	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	sprinkler pipe	Visual Appearance	IS 14151(PART1): 1999	Qualitative

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Accreditation Standard: ISO/IEC 17025:2005

Certificate Number: TC-8164 | Page No. : 10 / 11

Validity: 30/11/2018 to 29/11/2020 | Last Amended on : -

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98	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Sprinkler pipe	Weldability test	IS: 14151 (Pt. 2)-: 2008	Qualitative
99	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Sprinklet pipe	Hydraulic Proof Test	IS: 14151 (Pt. 2)-: 2008	Qualitative
100	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	tank	Visual Appearance	IS 12701: 1996	Qualitative
101	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	tank, pipe	dimensions	IS 15328: 2003	0.0 mm to 600.0 mm
102	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	U PVC pipe	Effect of Sunlight	IS:13592: 2013	Qualitative
103	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	UPVC pipe	Visual Appearance	IS 13592: 2013	Qualitative
104	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	UPVC pipe	Water Tightness of Joint	IS:13592: 1992	Qualitative
105	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	UPVC pipe fittings	Dimension	IS14735: 1999	0.0 mm to 600 mm
106	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	UPVC PIPES	Visual Appearance	4985: 2000	Qualitative
107	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	UPVC pipes for soil & discharge system	Dimension	IS 13592: 2013	0.0 mm to 600 mm

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Accreditation Standard	ISO/IEC 17025:2005		
Certificate Number	TC-8164	Page No. :	11 / 11
Validity	30/11/2018 to 29/11/2020	Last Amended on	-

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108	MECHANICAL-TEXTILE MATERIALS	tarpaulins	dimensions	IS:7903: 2017	10 mm to 5000.0 mm
109	MECHANICAL-TEXTILE MATERIALS	vermibed	dimensions	is15907: 2010	10.0 to 5000.0 mm
110	MECHANICAL-TEXTILE MATERIALS	WOVEN SACK	BREAKING STRENGTH	IS:11652: 2000	50.0 to 2000.0
111	MECHANICAL-TEXTILE MATERIALS	WOVEN SACK	BREAKING STRENGTH AFTER AND BEFORE UV	IS:14887: 2000	50.0 N to 2000.0 N
112	MECHANICAL-TEXTILE MATERIALS	WOVEN SACK	DIMENSION	IS: 9755: 2016	10.0 MM to 5000.0
113	MECHANICAL-TEXTILE MATERIALS	WOVEN SACK	DIMENSIONS	IS:16208: 2015	10.0 to 5000.0 MM
114	MECHANICAL-TEXTILE MATERIALS	WOVEN SACK	DIMENSIONS	IS:11652: 2000	10 to 5000
115	MECHANICAL-TEXTILE MATERIALS	WOVEN SACK	DIMENSIONS	IS:14887: 2000	10.0 to 5000.0