

Laboratory **The National Small Industries Corporation Limited, D/82-83, Focal Point, Rajpura, Punjab**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-5057 (In lieu of T-0174)**

Page 1 of 18

Validity **03.02.2017 to 02.02.2019**

Last Amended on 27.02.2017

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

ELECTRICAL TESTING

| I. | DOMESTIC ELECTRICAL APPLIANCES | | | |
|----|--|---|---|-------------|
| 1. | Electric Iron Steam Iron Electric Kettles and jugs Electric stove Hot plates Domestic Electric food mixers(Liquidizer and grinders and centrifugal juicers Electric Immersion water heater Electric water boiler Mineral Filled sheathed heating elements | Verification of Classification & Rating | IS: 366:1991& IS: 302-2-3 (2007) IS: 302-2-3 (2007) IS: 302-2-15: 2009 & 367:1993, IS: 302-2-202: 1992 & IS:2994:1992, IS 365: 1983, IS 4250: 1980, IS: 302-2-201: 2008 & 368:1992 IS: 302-2-204: 1994& IS:3412:1994 IS:4159:2002 IS: 302-2-30: 2007 & IS 369:1992, IS 302-1:2008 IS:2082:1993 IS:302-2-21-2002 IS:8978:1992 IS:302-2-35:2005 IEC 60335-1 IEC 60335-2-14 | Qualitative |
| | Electric Radiator Electric Storage Water Heater, Instantaneous Water Heater | Verification of Marking & Instructions | IS: 366:1991& IS: 302-2-3 (2007), IS: 302-2-3 (2007) IS: 302-215: 2009 & 367:1993, IS: 302-2-202:1992, IS:2994:1992, IS 365:1983, IS 4250:1980 IS: 302-2-201: 2008&368:1992 IS: 302-2-204: 1994& IS 3412:1994,IS 4159:2002 IS: 302-2-30: 2007 & IS 369:1992, IS 302-1: 2008, IS:2082:1993 | Qualitative |

Prachi Kukreti
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N. Venkateswaran
Program Director

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Certificate Number **TC-5057 (In lieu of T-0174)**

Page 2 of 18

Validity **03.02.2017 to 02.02.2019**

Last Amended on 27.02.2017

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|--|---|--|
| | | | IS:302-2-21-2002 IS:8978:1992 IS:302-2-35:2005 IEC 60335-1 IEC 60335-2-14 | |
| | | Protection Against Access to Live Parts. | IS: 366:1991& IS: 302-2-3 (2007) IS: 302-2-3 (2007) IS: 302-2-15:2009&367:1993 IS: 302-2-202:1992&IS:2994:1992 IS: 365: 1983 IS: 4250: 1980 IS: 302-2-201: 2008&368:1992 IS: 302-2-204: 1994& IS:3412:1994 IS:4159:2002 IS: 302-2-30: 2007 & IS: 369:1992 IS: 302-1: 2008 IS:2082:1993 IS:302-2-21-2002 IS:8978:1992 IS:302-2-35:2005 IEC 60335-1 IEC 60335-2-14 | Upto 50 V Upto 50 N |
| | | Stability & Mechanical Hazards | IS: 366:1991& IS: 302-2-3 (2007) IS: 302-2-3 (2007) IS: 302-2-15:2009&367:1993 IS: 302-2-202:1992&IS:2994:1992 IS: 365: 1983 IS: 4250: 1980 | 10 ° & 15 ° Upto 6 kW |

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Certificate Number **TC-5057 (In lieu of T-0174)**

Page 3 of 18

Validity **03.02.2017 to 02.02.2019**

Last Amended on 27.02.2017

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|-------------------------|---|--|
| | | | IS: 302-2-201: 2008&368:1992 IS: 302-2-204: 1994& IS:3412:1994 IS:4159:2002 IS: 302-2-30: 2007 & IS: 369:1992 IS: 302-1: 2008 IS:2082:1993 IS:302-2-21-2002 IS:8978:1992 IS:302-2-35:2005 IEC 60335-1 IEC 60335-2-14 | |
| | | Provision For Earthing | IS: 366:1991& IS: 302-2-3 (2007) IS: 302-2-3 (2007) IS: 302-2-15:2009&367:1993 IS: 302-2-202:1992&IS:2994:1992 IS: 365: 1983 IS: 4250: 1980 IS: 302-2-201: 2008&368:1992 IS: 302-2-204: 1994& IS:3412:1994 IS:4159:2002 IS: 302-2-30: 2007 & IS: 369:1992 IS: 302-1: 2008 IS:2082:1993 IS:302-2-21-2002 IS:8978:1992 IS:302-2-35:2005 IEC 60335-1 IEC 60335-2-14 | Upto50A Upto 20V Upto 6 kW |

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Convenor

N. Venkateswaran
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Laboratory **The National Small Industries Corporation Limited, D/82-83, Focal Point, Rajpura, Punjab**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-5057 (In lieu of T-0174)**

Page 4 of 18

Validity **03.02.2017 to 02.02.2019**

Last Amended on 27.02.2017

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|-------------------------|---|--|
| | | Screw & Connections | IS: 366:1991& IS: 302-2-3 (2007) IS: 302-2-3 (2007) IS: 302-2-15:2009&367:1993 IS: 302-2-202:1992&IS:2994:1992 IS: 365: 1983 IS: 4250: 1980 IS: 302-2-201: 2008&368:1992 IS: 302-2-204: 1994& IS:3412:1994 IS:4159:2002 IS: 302-2-30: 2007 & IS: 369:1992 IS: 302-1: 2008 IEC 60335-1 IEC 60335-2-14 IS:2082:1993 IS:302-2-21-2002 IS:8978:1992 IS:302-2-35:2005 | 0.1Nm to 1.5 Nm Upto 25mm |
| | | Input | IS: 366:1991& IS: 302-2-3 (2007) IS: 302-2-3 (2007) IS: 302-2-15:2009&367:1993 IS: 302-2-202:1992&IS:2994:1992 IS: 365: 1983 IS: 4250: 1980 IS: 302-2-201: 2008&368:1992 IS: 302-2-204: 1994& IS:3412:1994 IS:4159:2002 | Upto 6000W Upto1250W Upto 300V Upto 30A Upto10A Upto 6kW Upto 300V Upto 30A |

Prachi Kukreti
Convenor

N. Venkateswaran
Program Director

Laboratory The National Small Industries Corporation Limited, D/82-83, Focal Point, Rajpura, Punjab

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5057 (In lieu of T-0174)

Page 5 of 18

Validity 03.02.2017 to 02.02.2019

Last Amended on 27.02.2017

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|---------------------------|---|---|
| | | | IS: 302-2-30: 2007 & IS: 369:1992 IS: 302-1: 2008 IS:2082:1993 IS:302-2-21-2002 IS:8978:1992 IS:302-2-35:2005 IEC 60335-1 IEC 60335-2-14 | |
| | | Temperature Rise/ Heating | IS: 366:1991& IS: 302-2-3 (2007) IS: 302-2-3 (2007) IS: 302-2-15:2009&367:1993 IS: 302-2-202:1992&IS:2994:1992 IS: 365: 1983 IS: 4250: 1980 IS: 302-2-201: 2008&368:1992 IS: 302-2-204: 1994& IS:3412:1994 IS:4159:2002 IS: 302-2-30: 2007 & IS: 369:1992 IS: 302-1: 2008 IS:2082:1993 IS:302-2-21-2002 IS:8978:1992 IS:302-2-35:2005 IEC 60335-1 IEC 60335-2-14 | Amb 30 °C Upto 6 kW Upto 300V Upto 30A |

Prachi Kukreti
Convenor

N. Venkateswaran
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Laboratory **The National Small Industries Corporation Limited, D/82-83, Focal Point, Rajpura, Punjab**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-5057 (In lieu of T-0174)**

Page 6 of 18

Validity **03.02.2017 to 02.02.2019**

Last Amended on 27.02.2017

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|---|---|---|
| | | Leakage current and Electrical Strength | IS: 366:1991& IS: 302-2-3 (2007) IS: 302-2-3 (2007) IS: 302-2-15:2009&367:1993 IS: 302-2-202:1992&IS:2994:1992 IS: 365: 1983 IS: 4250: 1980 IS: 302-2-201: 2008&368:1992 IS: 302-2-204: 1994& IS:3412:1994 IS:4159:2002 IS: 302-2-30: 2007 & IS: 369:1992 IS: 302-1: 2008 IS:2082:1993 IS:302-2-21-2002 IS:8978:1992 IS:302-2-35:2005 IEC 60335-1 IEC 60335-2-14 | Upto 500µA Upto 5000V Upto2000mA Upto 6kW Upto 300V Upto 30A |
| | | Transient Over Voltage | IS: 366:1991&IS: 302-2-3 (2007) IS: 302-2-201: 2008&368:1992 IS: 302-2-30: 2007 & IS: 369:1992 IS: 302-2-15:2009 &367:1993 IS: 302-1: 2008 IEC 60335-1 | Upto 4000VAC |

Laboratory **The National Small Industries Corporation Limited, D/82-83, Focal Point, Rajpura, Punjab**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-5057 (In lieu of T-0174)**

Page 7 of 18

Validity **03.02.2017 to 02.02.2019**

Last Amended on 27.02.2017

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|--|---|---|
| | | Moisture Resistance | IS: 366:1991& IS: 302-2-3 (2007) IS: 302-2-3 (2007) IS: 302-2-15:2009&367:1993 IS: 302-2-202:1992&IS:2994:1992 IS: 365: 1983 IS: 4250: 1980 IS: 302-2-201: 2008&368:1992 IS: 302-2-204: 1994& IS:3412:1994 IS:4159:2002 IS: 302-2-30: 2007 & IS: 369:1992 IS: 302-1: 2008 IS:2082:1993 IS:302-2-21-2002 IS:8978:1992 IS:302-2-35:2005 IEC 60335-1 IEC 60335-2-14 | Upto 98% RH (15 to 35) °C (1000 x750x 750)mm |
| | | Leakage Current and Electric Strength (after humidity Treatment) | IS: 366:1991& IS: 366:1991& IS: 302-2-3 (2007) IS: 302-2-3 (2007) IS: 302-2-15:2009&367:1993 IS: 302-2-202:1992&IS:2994:1992 IS: 365: 1983 IS: 4250: 1980 IS: 302-2-201: 2008&368:1992 IS: 302-2-204: 1994& IS:3412:1994 | Upto 500µA Upto 5000V Upto2000mA Upto 6kW Upto 300V Upto 30A Upto100 MΩ |

Prachi Kukreti
Convenor

N. Venkateswaran
Program Director

Laboratory **The National Small Industries Corporation Limited, D/82-83, Focal Point, Rajpura, Punjab**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-5057 (In lieu of T-0174)**

Page 8 of 18

Validity **03.02.2017 to 02.02.2019**

Last Amended on 27.02.2017

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|-------------------------|---|--|
| | | | IS:4159:2002 IS: 302-2-30: 2007 & IS: 369:1992 IS: 302-1: 2008 IS:2082:1993 IS:302-2-21-2002 IS:8978:1992 IS:302-2-35:2005 IEC 60335-1 IEC 60335-2-14 | |
| | | Mechanical Strength | IS: 366:1991& IS: 302-2-3 (2007) IS: 302-2-3 (2007) IS: 302-2-15:2009&367:1993 IS: 302-2-202:1992&IS:2994:1992 IS: 365: 1983 IS: 4250: 1980 IS: 302-2-201: 2008&368:1992 IS: 302-2-204: 1994& IS:3412:1994 IS:4159:2002 IS: 302-2-30: 2007 & IS: 369:1992 IS: 302-1: 2008 IS:2082:1993 IS:302-2-21-2002 IS:8978:1992 IS:302-2-35:2005 IEC 60335-1 IEC 60335-2-14 | Upto 20Ø |

Prachi Kukreti
Convenor

N. Venkateswaran
Program Director

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Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-5057 (In lieu of T-0174)**

Page 9 of 18

Validity **03.02.2017 to 02.02.2019**

Last Amended on 27.02.2017

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|--|---|---|
| | | Supply Connection & External Flexible Cable & Cord. Length of wire Cross Sectional Area Of Wire Resistance of conductor Flexing Pull force and Torque | IS: 366:1991& IS: 302-2-3 (2007) IS: 302-2-3 (2007) IS: 302-2-15:2009&367:1993 IS: 302-2-202:1992&IS:2994:1992 IS: 365: 1983 IS: 4250: 1980 IS: 302-2-201: 2008&368:1992 IS: 302-2-204: 1994& IS:3412:1994 IS:4159:2002 IS: 302-2-30: 2007 & IS: 369:1992 IS: 302-1: 2008 IS:2082:1993 IS:302-2-21-2002 IS:8978:1992 IS:302-2-35:2005 IEC 60335-1 IEC 60335-2-14 | Upto 2 m Upto 25mm 0.2μΩ to11 Ω Upto 35Nm Upto 100N |
| | | Abnormal Operation | IS: 366:1991& IS: 302-2-3 (2007) IS: 302-2-3 (2007) IS: 302-2-15:2009&367:1993 IS: 302-2-202:1992&IS:2994:1992 IS: 365: 1983 IS: 4250: 1980 IS: 302-2-201: 2008&368:1992 IS: 302-2-204: 1994& IS:3412:1994 IS:4159:2002 | Amb to300 °C Upto 6 kW Upto 300V Upto 30A |

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Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-5057 (In lieu of T-0174)**

Page 10 of 18

Validity **03.02.2017 to 02.02.2019**

Last Amended on 27.02.2017

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|---------------------------------|---|--|
| | | | IS: 302-2-30: 2007 & IS: 369:1992 IS: 302-1: 2008 IS:2082:1993 IS:302-2-21-2002 IS:8978:1992 IS:302-2-35:2005 IEC 60335-1 IEC 60335-2-14 | |
| | | Terminal For External Conductor | IS: 366:1991& IS: 302-2-3 (2007) IS: 302-2-3 (2007) IS: 302-2-15:2009&367:1993 IS: 302-2-202:1992&IS:2994:1992 IS: 365: 1983 IS: 4250: 1980 IS: 302-2-201: 2008&368:1992 IS: 302-2-204: 1994& IS:3412:1994 IS:4159:2002 IS: 302-2-30: 2007 & IS: 369:1992 IS: 302-1: 2008 IS:2082:1993 IS:302-2-21-2002 IS:8978:1992 IS:302-2-35:2005 IEC 60335-1 IEC 60335-2-14 | Upto 200mm |

Prachi Kukreti
Convenor

N. Venkateswaran
Program Director

Laboratory **The National Small Industries Corporation Limited, D/82-83, Focal Point, Rajpura, Punjab**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-5057 (In lieu of T-0174)**

Page 11 of 18

Validity **03.02.2017 to 02.02.2019**

Last Amended on 27.02.2017

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|---------------------------------|---|---|
| | | Verification of Internal Wiring | IS: 366:1991& IS: 302-2-3 (2007) IS: 302-2-3 (2007) IS: 302-2-15:2009&367:1993 IS: 302-2-202:1992&IS:2994:1992 IS: 365: 1983 IS: 4250: 1980 IS: 302-2-201: 2008&368:1992 IS: 302-2-204: 1994& IS:3412:1994 IS:4159:2002 IS: 302-2-30: 2007 & IS: 369:1992 IS: 302-1: 2008 IS:2082:1993 IS:302-2-21-2002 IS:8978:1992 IS:302-2-35:2005 IEC 60335-1 IEC 60335-2-14 | Upto 5000V Upto 6kW Upto 300V Upto 30A |
| | | Verification of Component | IS: 366:1991& IS: 302-2-3 (2007) IS: 302-2-3 (2007) IS: 302-2-15:2009&367:1993 IS: 302-2-202:1992&IS:2994:1992 IS: 365: 1983 IS: 4250: 1980 IS: 302-2-201: 2008&368:1992 IS: 302-2-204: 1994& IS:3412:1994 IS:4159:2002 | Upto 6kW Upto 300V Upto 30A |

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Laboratory **The National Small Industries Corporation Limited, D/82-83, Focal Point, Rajpura, Punjab**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-5057 (In lieu of T-0174)**

Page 12 of 18

Validity **03.02.2017 to 02.02.2019**

Last Amended on 27.02.2017

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|------------------------------|---|--|
| | | | IS: 302-2-30: 2007 & IS: 369:1992 IS: 302-1: 2008 IS:2082:1993 IS:302-2-21-2002 IS:8978:1992 IS:302-2-35:2005 IEC 60335-1 IEC 60335-2-14 | |
| | | Verification of Construction | IS: 366:1991& IS: 302-2-3 (2007) IS: 302-2-3 (2007) IS: 302-2- | 99999Count |
| | | Vaccum | 15:2009&367:1993 | Upto -760 mmHg |
| | | Pressure | IS: 302-2-202:1992&IS:2994:1992 IS: 365: 1983 IS: 4250: 1980 IS: 302-2-201: 2008&368:1992 IS: 302-2-204: 1994& IS:3412:1994 IS:4159:2002 IS: 302-2-30: 2007 & IS: 369:1992 IS: 302-1: 2008 IS:2082:1993 IS:302-2-21-2002 IS:8978:1992 IS:302-2-35:2005 IEC 60335-1 IEC 60335-2-14 | Upto 10 kg/cm ² |

Laboratory **The National Small Industries Corporation Limited, D/82-83, Focal Point, Rajpura, Punjab**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-5057 (In lieu of T-0174)**

Page 13 of 18

Validity **03.02.2017 to 02.02.2019**

Last Amended on 27.02.2017

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|---|--|---|
| | | Clearances, Creepage Distance & Solid Insulation. | IS: 366:1991& IS: 302-2-3 (2007) IS: 4250: 1980 IS: 302-2-201: 2008&368:1992 IS: 302-2-30: 2007 IEC 60335-2-14 | Upto 200mm Upto 10mm |
| | | | & IS: 369:1992 IS: 302-2-204: 1994& IS:3412:1994 IS: 302-2- 202:1992&IS:2994:1992 IS: 302-2- 15:2009&367:1993 IS: 365: 1983 IS: 302-1: 2008 IS:4159:2002 IS:2082:1993 IS:302-2-21-2002 IS:8978:1992 IS:302-2-35:2005 IEC 60335-1 IEC 60335-2-14 | |
| | | Resistance to Heat & Fire | IS: 366:1991& IS: 302-2-3 (2007) IS: 302-2-3 (2007) IS: 302-2- 15:2009&367:1993 IS: 302-2- 202:1992&IS:2994:1992 IS: 365: 1983 IS: 4250: 1980 IS: 302-2-201: 2008&368:1992 IS: 302-2-204: 1994& IS:3412:1994 | Amb to 300°C Up to 200A Upto 99sec Upto 1200°C |

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Convenor

N. Venkateswaran
Program Director

Laboratory **The National Small Industries Corporation Limited, D/82-83, Focal Point, Rajpura, Punjab**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-5057 (In lieu of T-0174)**

Page 14 of 18

Validity **03.02.2017 to 02.02.2019**

Last Amended on 27.02.2017

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|-------------------------|---|--|
| | | | IS:4159:2002 IS: 302-2-30: 2007 & IS: 369:1992 IS: 302-1: 2008 IS:2082:1993 IS:302-2-21-2002 IS:8978:1992 IS:302-2-35:2005 | |
| | | Resistance To Rusting | IS: 366:1991& IS: 302-2-3 (2007) IS: 302-2-3 (2007) IS: 302-2-15:2009&367:1993 IS: 302-2-202:1992&IS:2994:1992 IS: 365: 1983 IS: 4250: 1980 IS: 302-2-201: 2008&368:1992 IS: 302-2-204: 1994& IS:3412:1994 IS:4159:2002 IS: 302-2-30: 2007 & IS: 369:1992 IS: 302-1: 2008 IS:2082:1993 IS:302-2-21-2002 IS:8978:1992 IS:302-2-35:2005 IEC 60335-1 IEC 60335-2-14 | Qualitative |

Prachi Kukreti
Convenor

N. Venkateswaran
Program Director

Laboratory **The National Small Industries Corporation Limited, D/82-83, Focal Point, Rajpura, Punjab**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-5057 (In lieu of T-0174)**

Page 15 of 18

Validity **03.02.2017 to 02.02.2019**

Last Amended on 27.02.2017

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|---|---|--|
| | | Radio and Television Interference Suppression | IS: 4250: 1980 IS:302-2-35:2005 IS:302-2-21-2002 IEC 60335-2-14 IS:2082:1993 IS:302-2-21-2002 IS:8978:1992 IS:302-2-35:2005 | Qualitative |
| | | Starting of Motor Operated Appliances | IS: 4250: 1980 IEC 60335-2-14 | Upto300 V 6kW 300V AC, 30 A |
| | | Test For Controls | IS: 4250: 1980 IEC 60335-2-14 | 6kW 300VAC 30 A |
| | | Strength of Assembly | IS: IEC 60335-1 IEC 60335-2-14 4250: 1980 IEC 60335-2-14 | 25 kgf |
| | | Operational | IS: 4250: 1980 IEC 60335-2-14 | 6 kW 300V 30A |
| | | Endurance | IS: 4250: 1980 IS: 368: 1992 IS: 3412:1994 IS: 2994:1992 IS: 369:1992 IS:4159:2002 IEC 60335-2-14 IS:2082:1993 IS:8978-1992 | Upto 6000W Upto1250W Upto300V Upto 30A Upto 10A 6 kW 300VAC 30 A |
| | | Finish | IS: 2994:1992 IS: 368: 1992 IS: 3412:1994 IS: 302-2-3 (1992) IS: 369: 1992 IS: 366:1991 | Qualitative |

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Convenor

N. Venkateswaran
Program Director

Laboratory **The National Small Industries Corporation Limited, D/82-83, Focal Point, Rajpura, Punjab**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-5057 (In lieu of T-0174)**

Page 16 of 18

Validity **03.02.2017 to 02.02.2019**

Last Amended on 27.02.2017

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|---|--|---|
| | | | IS: 365:1983 IS:4159:2002 IS:2082:1993 IS:8978-1992 | |
| | | Thermal Efficiency | IS: 3412:1994 IS: 2994:1992 | Qualitative |
| | | Temperature Withstand | IS: 4250:1980 IEC 60335-2-14 | Amb to300 °C Up to 6 kW Upto 300V Upto 30A |
| | | Capacity | IS: 367:1993 IS: 302-2-15:1993 IS:2082:1993 IS:302-2-21-2002 | 25 l Upto 6 kW Up to 300V Upto 30A |
| | | Minimum Quantity of Water | IS: 367:1993 IS: 302-2-15: 1993 | 50ml to 1000 ml |
| | | Temperature Rise of Surface | IS: 365: 1983 IS: 369:1992 | Amb to300 °C Upto 6 kW Up to 300V Upto 30A |
| | | Heating up Time | IS: 366: 1991 IS: 302-2-3 (2007) IS: 302-1 (2008) IEC 60335-1 | Upto 3600 sec |
| | | Sole Plate Temperature | IS: 366: 1991 IS: 302-2-3 (2007) IS: 302-1 (2008) IEC 60335-1 | Amb to 300 °C Upto 6 kW Upto 300V Upto 30A |
| | | Temperature Distribution | IS: 366: 1991 IS: 302-2-3 (2007) IS: 302-1 (2008) IEC 60335-1 IEC 60335-2-14 | Amb to300 °C Upto 6kW Upto 300V Upto 30A |
| | | Initial Over-swing Temp and Heating up Excess Temp. | IS: 366: 1991 IS: 302-2-3 (2007) IS: 302-1 (2008) IEC 60335-1 | Amb to300 °C Upto 6 kW Up to 300V Upto 30A |

Prachi Kukreti
Convenor

N. Venkateswaran
Program Director

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Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-5057 (In lieu of T-0174)**

Page 17 of 18

Validity **03.02.2017 to 02.02.2019**

Last Amended on 27.02.2017

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|------------------------------------|---|---|
| | | Cyclic Fluctuation of Hottest Spot | IS: 366: 1991 IS: 302-2-3 (2007) IS: 302-1 (2008) IEC 60335-1 | Amb to 300 °C Upto 6 kW Up to 300V Upto 30A |
| | | Thermostatic Stability | IS: 366: 1991 IS: 302-2-3 (2007) IS: 302-1 (2008) IEC 60335-2-14 | Amb to 300 °C Upto 6 kW Up to 300V Upto 30A |
| | | Overload Protection | IS: 302-2-204: 1994 IS: 302-2-35: 2005 IS: 302-2-21: 2002 | Upto 6000W Upto 1250W Upto 300V Upto 30A Upto 10A 6 kW 300VAC 30 A |
| | | Leakage and hydrostatic strength | IS: 4159: 2002 | Qualitative (Upto 10.6kg/cm ² 6kW, 300VAC, 30A) |
| | | Operation of flow switches | IS: 8978: 1992 | Upto 200 °C |
| | | Mounting of the water heater | IS: 2082: 1993 | Upto 200 °C |
| | | Stored water temperature | IS: 2082: 1993 | Upto 200 °C Upto 9999.9 Hr Upto 20A |
| | | Thermostat setting | IS: 2082: 1993 | Qualitative |
| | | Energy conservation | IS: 2082: 1993 | Upto 200 °C Upto 9999.9 Hr, Upto 20A |
| | | Standing Loss per 24 hours | IS: 2082: 1993 | Upto 0-200 °C Upto 9999.9 Hr Upto 20A |
| | | Hot water output | IS: 2082: 1993 | Upto 200 °C Upto 9999.9 Hr Upto 20A |

Prachi Kukreti
Convenor

N. Venkateswaran
Program Director

Laboratory **The National Small Industries Corporation Limited, D/82-83, Focal Point, Rajpura, Punjab**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-5057 (In lieu of T-0174)**

Page 18 of 18

Validity **03.02.2017 to 02.02.2019**

Last Amended on 27.02.2017

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|--|---|--|
| | | Reheating time | IS:2082:1993 | Upto 200°C Upto 9999.9 Hr Upto 20A |
| | | Mixing Factor | IS:2082:1993 | Upto 200°C Upto 9999.9 Hr Upto 20A |
| | | Deviation from dial calibration | IS:2082:1993 | Upto 200°C Upto 9999.9 Hr Upto 20A |
| | | Cyclic Temperature variation | IS:2082:1993 | Upto 200°C Upto 9999.9 Hr Upto 20A |
| | | Operation under Overload Condition of Appliances with Heating Elements | IS:2082:1993 | Upto 5000W Upto 100°C |

Prachi Kukreti
Convenor

N. Venkateswaran
Program Director