

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Certificate of Accreditation

#### *Aaditech Test & Calibration Lab LLP (Unit-II)*

H.No.-85/3, KH-24/10, Ground Floor,  
Village Mohammad Pur Majri, BLK-C, Ramavihar,  
Delhi-110081, India

has been assessed and accredited in accordance with the Standard  
**ISO/IEC 17025:2017**

“General Requirements for the Competence of Testing and Calibration Laboratories”  
In the field of  
**Testing**

This certificate remains valid for the Scope of Accreditation as specified  
in the annexure subject to continued compliance to the above standard &  
any other requirements specified by QAI.



**QAI/CIA/TL/2025/0144**

Valid from: 10 Oct 2025

Valid until: 09 Oct 2027

**Dr. Bhupendra Kumar Rana**  
Chief Executive Officer

**Prof. Vikram Kumar**  
Chair, CIA



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QAI/CIA/TL/2025/0144

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Valid until :09 Oct 2027

Accreditation Standard: ISO/IEC 17025:2017

| Chemical Testing |                             |                          |                              |
|------------------|-----------------------------|--------------------------|------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed | Test Method                  |
|                  | <b>Metals &amp; Alloys</b>  |                          |                              |
| 1.               | Aluminium & Its Alloys      | Chromium                 | IS 504: Part 8: 2012         |
| 2.               |                             | Copper                   | IS 504: Part 3: 2012         |
| 3.               |                             | Iron                     | IS 504: Part 2: 2012         |
| 4.               |                             | Lead                     | IS 504: Part 1: 2012         |
| 5.               |                             | Magnesium                | IS 504: Part 6: 2002         |
| 6.               |                             | Manganese                | IS 504: Part 5: 2012         |
| 7.               |                             | Nickel                   | IS 504: Part 7: 2012         |
| 8.               |                             | Silicon                  | IS 504: Part 1 to 12 : 2012  |
| 9.               |                             | Zinc                     | IS 504: Part 4: 2012         |
| 10.              | Low Carbon Steel            | Carbon                   | IS 228(Part-1): 1987         |
| 11.              |                             | Chromium                 | IS 228(Part-6): 1987         |
| 12.              |                             | Copper                   | IS 228(Part-15): 1992        |
| 13.              |                             | Manganese                | IS 228(Part-12): 2001        |
| 14.              |                             | Molybdenum               | IS 228(Part-7): 1990         |
| 15.              |                             | Nickel                   | IS 228(Part-5): 1987         |
| 16.              |                             | Nitrogen                 | IS 228(Part-19): 1988        |
| 17.              |                             | Phosphorus               | IS 228(Part-3): 1987         |
| 18.              |                             | Silicon                  | IS 228(Part-8): 1989         |
| 19.              |                             | Sulphur                  | IS 228(Part-9): 1989         |
| 20.              | Copper & Its Alloys         | Bi                       | IS 440: 1964                 |
| 21.              |                             | Copper                   | IS 3685: 1966 & IS 440: 1964 |
| 22.              |                             | Lead                     | IS 3685: 1966                |
| 23.              |                             | O                        | IS 440: 1964                 |

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|------------------|-----------------------------|--------------------------|-----------------------|
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|                  | <b>Metals &amp; Alloys</b>  |                          |                       |
| 24.              | Copper & Its Alloys         | Tin                      | IS 3685: 1966         |
| 25.              |                             | Zinc                     | IS 3685: 1966         |
| 26.              | Stainless Steel             | Carbon                   | IS 228(Part-1): 1987  |
| 27.              |                             | Chromium                 | IS 228(Part-6): 1987  |
| 28.              |                             | Copper                   | IS 228(Part-15): 1992 |
| 29.              |                             | Manganese                | IS 228(Part-12): 2001 |
| 30.              |                             | Molybdenum               | IS 228(Part-7): 1990  |
| 31.              |                             | Nickel                   | IS 228(Part-5): 1987  |
| 32.              |                             | Nitrogen                 | IS 228(Part-19): 1988 |
| 33.              |                             | Phosphorus               | IS 228(Part-3): 1987  |
| 34.              |                             | Silicon                  | IS 228(Part-8): 1989  |
| 35.              |                             | Sulphur                  | IS 228(Part-9): 1989  |



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| Chemical Testing |                                              |                                                              |                         |
|------------------|----------------------------------------------|--------------------------------------------------------------|-------------------------|
| Sl. No.          | Product(s)/Material of Test                  | Specific Tests Performed                                     | Test Method             |
|                  | Building Material                            |                                                              |                         |
| 1.               | Bitumen Emulsion for Roads<br>(Catonic Type) | Residue on 600 micron IS Sieve,<br>percent by mass           | Annex-B of IS 8887:2018 |
| 2.               |                                              | Viscosity by saybolt furol viscometer,<br>seconds at 25° C   | IS 3117:2004            |
| 3.               |                                              | Viscosity by saybolt furol viscometer,<br>seconds at 50° C   | IS 3117:2004            |
| 4.               |                                              | Coagulation of emulsion at low<br>temperature                | Annex-C of IS 8887:2018 |
| 5.               |                                              | Storage stability after 24 h, percent,<br>Max                | Annex-D of IS 8887:2018 |
| 6.               |                                              | Particle charge                                              | Annex-E of IS 8887:2018 |
| 7.               |                                              | Coating ability and water resistance:                        | Annex-F of IS 8887:2018 |
| 8.               |                                              | 1) Coating, dry aggregate                                    | Annex-F of IS 8887:2018 |
| 9.               |                                              | 2) Coating, after spraying                                   | Annex-F of IS 8887:2018 |
| 10.              |                                              | 3) Coating, wet aggregate                                    | Annex-F of IS 8887:2018 |
| 11.              |                                              | 4) Coating, after spraying                                   | Annex-F of IS 8887:2018 |
| 12.              |                                              | Stability to mixing with cement (%<br>coagulation), Max      | Annex-G of IS 8887:2018 |
| 13.              |                                              | Miscibility with water                                       | Annex-H of IS 8887:2018 |
| 14.              |                                              | Tests on residue: 1) Residue by<br>evaporation, percent, Min | Annex-J of IS 8887:2018 |
| 15.              |                                              | 2) Penetration 25°C/100g/5 sec                               | IS 1203:2022            |
|                  |                                              | 3) Ductility 27°C/cm, Min                                    | IS 1208:2018            |

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|------------------|----------------------------------------------|-----------------------------------------------------------------------------|--------------|
| Sl. No.          | Product(s)/Material of Test                  | Specific Tests Performed                                                    | Test Method  |
|                  | Building Material                            |                                                                             |              |
| 16.              | Bitumen Emulsion for Roads<br>(Catonic Type) | 4) Solubility I tricholoethylene, percent by mass, M                        | IS 1216:2023 |
| 17.              |                                              | Distillation in percent volume of distillate recovered at 360°C at 1) 190°C | IS 1213:2020 |
| 18.              |                                              | 2) 225°C                                                                    | IS 1213:2020 |
| 19.              |                                              | 3) 260°C                                                                    | IS 1213:2020 |
| 20.              |                                              | 4) 316°C                                                                    | IS 1213:2020 |
| 21.              |                                              | 5) Residue at 360°C, percent, Min                                           | IS 1213:2020 |
| 22.              |                                              | Water content, percent by mass, Max                                         | IS 1211:2022 |





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|--------------------|-----------------------------------------|------------------------------------------------------------------------|---------------------------------------------|
| Sl. No.            | Product(s)/Material of Test             | Specific Tests Performed                                               | Test Method                                 |
|                    | Performance, Durability and Safety Test |                                                                        |                                             |
| 1.                 | Stainless Steel Cookware                | Marking and Labelling                                                  | (Cl.6.7.2) of IS 14756:2024                 |
| 2.                 |                                         | Nominal Capacity test                                                  | (Cl.6.7 & 6.7.1) of IS 14756: 2022          |
| 3.                 |                                         | Thermal Shock Test                                                     | (Cl.6.3) of IS 14756: 2024                  |
| 4.                 |                                         | Material: - material used for Composite Bottom                         | (Cl.3.2 of IS 14756: 2024) & IS 15960: 2013 |
| 5.                 |                                         | Material: - SS used for utensils                                       | (Cl.3.1 of IS 14756: 2024) & IS 5522 :2014  |
| 6.                 |                                         | Shapes and Dimensions                                                  | (Cl.4) of IS 14756: 2024                    |
| 7.                 |                                         | Shapes and Dimensions: Materials thickness of 2-ply & 3-ply            | (Cl.4.3 of IS 14756: 2024) & IS 15960:2013  |
| 8.                 |                                         | Shapes and Dimensions: Minimum finished thickness of Utensils & sheet. | (Cl.4.2) of IS 14756: 2024                  |
| 9.                 |                                         | Tests: Coating Thickness Test                                          | (Cl.6.5) of IS 14756: 2024                  |
| 10.                |                                         | Tests: Dry Heat Test (for cladded utensils only)                       | (Cl.6.4) of IS 14756: 2024                  |
| 11.                |                                         | Mechanical Shock test (for cladded utensils only)                      | (Cl.6.2) of IS 14756: 2024                  |
| 12.                |                                         | Tests: Staining Test                                                   | (Cl.6.1) of IS 14756: 2024                  |
| 13.                |                                         | Tests: Thermal Shock Test (for cladded utensils only)                  | (Cl.6.3) of IS 14756: 2024                  |
| 14.                |                                         | Workmanship and Finish                                                 | (Cl.5) of IS 14756: 2024                    |

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| Mechanical Testing |                                         |                                     |                                          |
|--------------------|-----------------------------------------|-------------------------------------|------------------------------------------|
| Sl. No.            | Product(s)/Material of Test             | Specific Tests Performed            | Test Method                              |
|                    | Performance, Durability and Safety Test |                                     |                                          |
| 15.                | Stainless Steel Cookware                | For 3 ply Construction utensil body | (Cl.6.6) of IS 14756: 2024               |
| 16.                | Wrought Aluminum Utensils               | Classification                      | (Cl.3) of IS 1660: 2024                  |
| 17.                |                                         | Classification: Thickness           | (Cl.3.1.2) of IS 1660: 2024              |
| 18.                |                                         | Fabrication                         | (Cl.5) of IS 1660: 2024                  |
| 19.                |                                         | Handles                             | (Cl.7) of IS 1660: 2024                  |
| 20.                |                                         | Material                            | (cl.4) of IS 1660: 2024                  |
| 21.                |                                         | Shape and Dimensions                | (cl.6) of IS 1660: 2024                  |
| 22.                |                                         | Workmanship and Finish              | (cl.8) of IS 1660: 2024                  |
| 23.                | Domestic gas Stove for use with L.P.G.  | Burner Pan supports                 | (Cl .12) of IS 4246: 2002                |
| 24.                |                                         | Burners                             | (Cl.11) of IS 4246: 2002), IS 5116: 2020 |
| 25.                |                                         | Combustion                          | (Cl .24) of IS 4246: 2002                |
| 26.                |                                         | Construction: General               | (Cl .4) of IS 4246: 2002                 |
| 27.                |                                         | Design for Maintenance              | (Cl. 6) of IS 4246: 2002                 |
| 28.                |                                         | Fire Hazard & Limiting Temperature  | (Cl.25) of IS 4246: 2002), IS 5116: 2020 |
| 29.                |                                         | Flame Stability                     | (Cl .19) of IS 4246: 2002                |
| 30.                |                                         | Flash Back                          | (Cl .21) of IS 4246: 2002                |
| 31.                |                                         | Formation of Soot                   | (Cl .22) of IS 4246: 2002                |
| 32.                |                                         | Gas Consumption                     | (Cl .17) of IS 4246: 2002                |
| 33.                |                                         | Gas Inlet Connection                | (Cl.14) of IS 4246: 2002),               |

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| Mechanical Testing |                                         |                          |                                                                           |
|--------------------|-----------------------------------------|--------------------------|---------------------------------------------------------------------------|
| Sl. No.            | Product(s)/Material of Test             | Specific Tests Performed | Test Method                                                               |
|                    | Performance, Durability and Safety Test |                          |                                                                           |
|                    |                                         |                          | IS 5116: 2020                                                             |
| 34.                | Domestic gas Stove for use with L.P.G.  | Gas Leak Detector        | (Cl.13.2) of IS 4246 :2002), IS 13432 Part 1: 1992, IS 13432 Part2): 1998 |
| 35.                |                                         | Gas Soundness            | (Cl.13) of IS 4246: 2002), IS 5116: 2020                                  |
| 36.                |                                         | Gas Taps                 | (Cl.9) of IS 4246: 2002), IS 5116: 2020                                   |
| 37.                |                                         | Ignition & Flame Travel  | (Cl.18) of IS 4246: 2002), IS 5116: 2020                                  |
| 38.                |                                         | Injector Jets            | (Cl.10) of IS 4246: 2002), IS 5116: 2020                                  |
| 39.                |                                         | Materials                | (Cl.5 of IS 4246: 2002), IS 5116: 2020                                    |





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| Mechanical Testing |                                                          |                                              |                                          |
|--------------------|----------------------------------------------------------|----------------------------------------------|------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                              | Specific Tests Performed                     | Test Method                              |
|                    | Performance, Durability and Safety Test                  |                                              |                                          |
| 40.                | Domestic gas Stove for use with L.P.G.                   | Noise Control                                | (Cl .20) of IS 4246: 2002                |
| 41.                |                                                          | Performance - General Conditions of Test     | (Cl.16) of IS 4246: 2002), IS 5116: 2022 |
| 42.                |                                                          | Resistance to draught                        | (Cl .23) of IS 4246: 2002                |
| 43.                |                                                          | Rigidity & Stability                         | (Cl .7) of IS 4246: 2002                 |
| 44.                |                                                          | Strength & Rigidity                          | (Cl.15) of IS 4246: 2002                 |
| 45.                |                                                          | Thermal Efficiency                           | (Cl .26) of IS 4246: 2002                |
| 46.                |                                                          | Verification of Marking                      | (Cl .29) of IS 4246: 2002                |
| 47.                |                                                          | Workmanship & Finish                         | (Cl.8) of IS 4246: 2002), IS 5116: 2020  |
| 48.                | Domestic Gas stoves for use with Piped Natural Gas (PNG) | Materials: Surface of Glass or Glass Ceramic | (Cl.5.8) of IS 17153: 2019               |
| 49.                |                                                          | Fire Hazard and Limiting Temperatures        | (Cl.25) of IS 17153: 2019                |
| 50.                |                                                          | Rigidity and Stability                       | (Cl.7) of IS 17153: 2019                 |
| 51.                |                                                          | Burners                                      | (Cl.11) of IS 17153: 2019                |

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| Mechanical Testing |                                                          |                                          |                           |
|--------------------|----------------------------------------------------------|------------------------------------------|---------------------------|
| Sl. No.            | Product(s)/Material of Test                              | Specific Tests Performed                 | Test Method               |
|                    | Performance, Durability and Safety Test                  |                                          |                           |
| 52.                | Domestic Gas stoves for use with Piped Natural Gas (PNG) | Combustion                               | (Cl.24) of IS 17153: 2019 |
| 53.                |                                                          | Flame Stability                          | (Cl.19) of IS 17153: 2019 |
| 54.                |                                                          | Flash Back                               | (Cl.21) of IS 17153: 2019 |
| 55.                |                                                          | Formation of Soot                        | (Cl.22) of IS 17153: 2019 |
| 56.                |                                                          | Gas Consumption                          | (Cl.17) of IS 17153: 2019 |
| 57.                |                                                          | Gas Inlet Connections                    | (Cl.14) of IS 17153: 2019 |
| 58.                |                                                          | Gas Soundness                            | (Cl.13) of IS 17153: 2019 |
| 59.                |                                                          | Gas Taps                                 | (Cl.9) of IS 17153: 2019  |
| 60.                |                                                          | Ignition and Flame Travel                | (Cl.18) of IS 17153: 2019 |
| 61.                |                                                          | Noise Control                            | (Cl.20) of IS 17153: 2019 |
| 62.                |                                                          | Pan Support                              | (Cl.12) of IS 17153: 2019 |
| 63.                |                                                          | Performance - General Conditions of Test | (Cl.16) of IS 17153: 2019 |
| 64.                |                                                          | Resistance to Draught                    | (Cl.23) of IS 17153: 2019 |

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|--------------------|----------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------|
| Sl. No.            | Product(s)/Material of Test                              | Specific Tests Performed                                                   | Test Method                 |
|                    | Performance, Durability and Safety Test                  |                                                                            |                             |
| 65.                | Domestic Gas stoves for use with Piped Natural Gas (PNG) | Strength and Rigidity                                                      | (Cl.15) of IS 17153: 2019   |
| 66.                |                                                          | Strength and Rigidity - Fragmentation test of the Toughened Glass top only | (Cl.15.2) of IS 17153:2019  |
| 67.                |                                                          | Strength and Rigidity - TGT against thermal Stress                         | (Cl.15.1) of IS 17153:2019  |
| 68.                |                                                          | Thermal Efficiency                                                         | (Cl.26) of IS 17153: 2019   |
| 69.                |                                                          | Workmanship and Finish                                                     | (Cl.8) of IS 17153: 2019    |
| 70.                |                                                          | Workmanship and Finish - Adhesion Test                                     | (Cl.8.3.2) of IS 17153:2019 |
| 71.                |                                                          | Workmanship and Finish - Concealed Gas Supplies                            | (Cl.8.5) of IS 17153: 2019  |
| 72.                |                                                          | Workmanship and Finish - Corrosion Resistance test                         | (Cl.8.3.3) of IS 17153:2019 |
| 73.                |                                                          | Workmanship and Finish - Electroplated nickel coating test                 | (Cl.8.3) of IS 17153: 2019  |



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|--------------------|----------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                              | Specific Tests Performed                                                  | Test Method                                                                |
|                    | Performance, Durability and Safety Test                  |                                                                           |                                                                            |
| 74.                | Domestic Gas stoves for use with Piped Natural Gas (PNG) | Workmanship and Finish - Resistance to abrasion                           | (Cl.8.4.a) of IS 17153:2019                                                |
| 75.                |                                                          | Workmanship and Finish - Resistance to Heating                            | (Cl.8.4. b) of IS 17153:2019                                               |
| 76.                |                                                          | Workmanship and Finish - Screw, Nuts, Bolts and Springs                   | (Cl.8.6) of IS 17153: 2019                                                 |
| 77.                |                                                          | Workmanship and Finish - Thickness of Nickel Plating by BNF Jet Apparatus | (Cl.8.3.1) of IS 17153:2019                                                |
| 78.                |                                                          | Workmanship and Finish - Vitreous Enameled Test (citric acid spot test)   | (Cl.8.2 of IS 17153:2019) & IS : 5116:2020                                 |
| 79.                |                                                          | Design for Maintenance                                                    | (Cl.6) of IS 17153: 2019                                                   |
| 80.                |                                                          | General                                                                   | (Cl.4) of IS 17153: 2019                                                   |
| 81.                |                                                          | Injector Jets                                                             | (Cl.10) of IS 17153: 2019                                                  |
| 82.                |                                                          | Materials                                                                 | (Cl.5 of IS 17153: 2019), IS 5116: 2020 & IS 2305: 19882020& IS 2305: 1988 |

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|--------------------|------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                          | Specific Tests Performed                         | Test Method                                 |
|                    | Performance, Durability and Safety Test              |                                                  |                                             |
| 83.                | Instantaneous Domestic Water Heater for use with LPG | Combustion                                       | (Cl .17) of IS 15558: 2024                  |
| 84.                |                                                      | Connection                                       | (Cl .6) of IS 15558: 2024                   |
| 85.                |                                                      | Construction: General Requirements               | (Cl.4 of IS 15558: 2024) & IS 5116: 2020    |
| 86.                |                                                      | Fire Hazard & Limiting Temperature               | (Cl.24 of IS 15558: 2024) & IS 5116: 2020   |
| 87.                |                                                      | Flame Failure Device                             | (Cl.9 of IS 15558: 2024) & IS 5116: 2020    |
| 88.                |                                                      | Flame Stability                                  | (Cl .20) of IS 15558: 2024                  |
| 89.                |                                                      | Flame Visibility                                 | (Cl .7) of IS 15558: 2024                   |
| 90.                |                                                      | Gas Inlet Connections                            | (Cl. 6.6 of IS 15558: 2024) & IS 5116: 2020 |
| 91.                |                                                      | General Test Condition: Accuracy of Measurements | (Cl.13.1.2) of IS 15558:2024                |
| 92.                |                                                      | General Test Condition: Test Room                | (Cl.13.1.1) of IS 15558:2024                |

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# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

**Aaditech Test & Calibration Lab LLP (Unit-II)**

H No.-85/3, Khasra No. 24/10, Ground Floor,  
Village Mohammad Pur Majri, BLK-C, Rama Vihar  
Delhi -110081, India

QAI/CIA/TL/2025/0144

Valid from: 10 Oct 2025

Valid until :09 Oct 2027

Accreditation Standard: ISO/IEC 17025:2017

| Mechanical Testing |                                                      |                                            |                                           |
|--------------------|------------------------------------------------------|--------------------------------------------|-------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                          | Specific Tests Performed                   | Test Method                               |
|                    | Performance, Durability and Safety Test              |                                            |                                           |
| 93.                | Instantaneous Domestic Water Heater for use with LPG | Hot Water Output Test                      | (Cl.26) of IS 15558: 2024                 |
| 94.                |                                                      | Protection Against accidental over Heating | (Cl .11) of IS 15558: 2024                |
| 95.                |                                                      | Flash Back                                 | (Cl .22) of IS 15558: 2024                |
| 96.                |                                                      | Gas Consumption                            | (Cl .18) of IS 15558: 2024                |
| 97.                |                                                      | Gas Soundness                              | (Cl.14 of IS 15558: 2024) & IS 5116: 2020 |
| 98.                |                                                      | Gas Taps                                   | (Cl .8) of IS 15558: 2024                 |
| 99.                |                                                      | Ignition & Flame Travel                    | (Cl .19) of IS 15558: 2024                |
| 100.               |                                                      | Ignition Device                            | (Cl .10) of IS 15558: 2024                |
| 101.               |                                                      | Noise Control                              | (Cl .21) of IS 15558: 2024                |
| 102.               |                                                      | Resistance to Draught                      | (Cl .23) of IS 15558: 2024                |
| 103.               |                                                      | Thermal Efficiency                         | (Cl .16) of IS 15558: 2024                |
| 104.               |                                                      | Time for Temperature Rise                  | (Cl .25) of IS 15558: 2024                |
| 105.               |                                                      | Verification of Packing                    | (Cl .29) of IS 15558: 2024                |

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Accreditation Standard: ISO/IEC 17025:2017

| Mechanical Testing |                                                                 |                                                      |                                            |
|--------------------|-----------------------------------------------------------------|------------------------------------------------------|--------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                                     | Specific Tests Performed                             | Test Method                                |
|                    | Performance, Durability and Safety Test                         |                                                      |                                            |
| 106.               | Instantaneous Domestic Water Heater for use with LPG            | Water Rate Adjuster                                  | (Cl .12) of IS 15558: 2024                 |
| 107.               |                                                                 | Water Soundness                                      | (Cl .15) of IS 15558: 2024                 |
| 108.               |                                                                 | Material                                             | (Cl.5 of IS 15558: 2024) & IS 2305: 1988   |
| 109.               |                                                                 | Performance Requirements: General Conditions of Test | (Cl.13 of IS 15558: 2024) & IS 5116: 2020  |
| 110.               |                                                                 | Verification of Instructions                         | (Cl .27) of IS 15558: 2024                 |
| 111.               |                                                                 | Verification of Marking                              | (Cl .28) of IS 15558: 2024                 |
| 112.               | Mini Domestic Water Heater for use with Piped Natural Gas (PNG) | Gas Inlet Connections                                | (Cl.6.6 of IS 17150: 2019) & IS 5116: 2020 |
| 113.               |                                                                 | Combustion                                           | (Cl.17) of IS 17150: 2019                  |
| 114.               |                                                                 | Construction: Connections                            | (Cl.6) of IS 17150: 2019                   |
| 115.               |                                                                 | Construction: Flame Failure Device                   | (Cl.9) of IS 17150: 2019                   |

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| Mechanical Testing |                                                                 |                                                         |                              |
|--------------------|-----------------------------------------------------------------|---------------------------------------------------------|------------------------------|
| Sl. No.            | Product(s)/Material of Test                                     | Specific Tests Performed                                | Test Method                  |
|                    | Performance, Durability and Safety Test                         |                                                         |                              |
| 116.               | Mini Domestic Water Heater for use with Piped Natural Gas (PNG) | Construction: Flame Visibility                          | (Cl.7) of IS 17150: 2019     |
| 117.               |                                                                 | Construction: Gas Taps                                  | (Cl.8) of IS 17150: 2019     |
| 118.               |                                                                 | Construction: General Requirements                      | (Cl.4) of IS 17150: 2019     |
| 119.               |                                                                 | Construction: Ignition Device                           | (Cl.10) of IS 17150: 2019    |
| 120.               |                                                                 | Construction: Material                                  | (Cl.5) of IS 17150: 2019     |
| 121.               |                                                                 | Construction: Protection Against Accidental Overheating | (Cl.11) of IS 17150: 2019    |
| 122.               |                                                                 | Construction: Water Rate Adjuster                       | (Cl.12) of IS 17150: 2019    |
| 123.               |                                                                 | Fire Hazard and Limiting Temperatures                   | (Cl.24) of IS 17150: 2019    |
| 124.               |                                                                 | Flame Stability                                         | (Cl.20) of IS 17150: 2019    |
| 125.               |                                                                 | Flash Back                                              | (Cl.22) of IS 17150: 2019    |
| 126.               |                                                                 | Gas Consumption                                         | (Cl.18) of IS 17150: 2019    |
| 127.               |                                                                 | Gas Soundness                                           | (Cl.14) of IS 17150: 2019    |
| 128.               |                                                                 | General Test Condition: Accuracy of Measurements        | (Cl.13.1.2) of IS 17150:2019 |

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Accreditation Standard: ISO/IEC 17025:2017

| Mechanical Testing |                                                                   |                                                      |                                           |
|--------------------|-------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                                       | Specific Tests Performed                             | Test Method                               |
|                    | Performance, Durability and Safety Test                           |                                                      |                                           |
| 129.               | Mini Domestic Water Heater for use with Piped Natural Gas (PNG)   | General Test Condition: Test Room                    | (Cl.13.1.1) of IS 17150:2019              |
| 130.               |                                                                   | Hot Water Output Test                                | (Cl.26) of IS 17150: 2019                 |
| 131.               |                                                                   | Ignition and Flame Travel                            | (Cl.19) of IS 17150: 2019                 |
| 132.               |                                                                   | Noise Control                                        | (Cl.21) of IS 17150: 2019                 |
| 133.               |                                                                   | Performance Requirements: General Conditions of Test | (Cl.13 of IS 17150: 2019) & IS 5116: 2020 |
| 134.               |                                                                   | Resistance to Draught                                | (Cl.23) of IS 17150: 2019                 |
| 135.               |                                                                   | Thermal Efficiency                                   | (cl.16) of IS 17150: 2019                 |
| 136.               |                                                                   | Time for Temperature Rise                            | (cl.25) of IS 17150: 2019                 |
| 137.               |                                                                   | Water Soundness                                      | (Cl.15) of IS 17150: 2019                 |
| 138.               | Performance of Handles and Handle Assemblies Attached to Cookware | Attachment to Cookware                               | (Cl.4.5) of IS 13395: 2021                |
| 139.               |                                                                   | Burning Resistance                                   | (Cl.5.10) of IS 13395:2021                |
| 140.               |                                                                   | Construction                                         | (Cl.4.1) of IS 13395: 2021                |
| 141.               |                                                                   | Fatigue Resistance                                   | (Cl.5.5) of IS 13395: 2021                |
| 142.               |                                                                   | Heat Resistance                                      | (Cl.5.8) of IS 13395: 2021                |

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| Mechanical Testing |                                                                   |                                                      |                            |
|--------------------|-------------------------------------------------------------------|------------------------------------------------------|----------------------------|
| Sl. No.            | Product(s)/Material of Test                                       | Specific Tests Performed                             | Test Method                |
|                    | Performance, Durability and Safety Test                           |                                                      |                            |
| 143.               | Performance of Handles and Handle Assemblies Attached to Cookware | Impact Strength                                      | (Cl.5.4) of IS 13395: 2021 |
| 144.               |                                                                   | Leakage                                              | (Cl.5.6) of IS 13395: 2021 |
| 145.               |                                                                   | Materials                                            | (Cl.4.2) of IS 13395: 2021 |
| 146.               |                                                                   | Performance: Bending Strength                        | (Cl.5.2) of IS 13395: 2021 |
| 147.               |                                                                   | Performance: General                                 | (Cl.5.1) of IS 13395: 2021 |
| 148.               |                                                                   | Position of Handle and Knob with respect to Cookware | (Cl.4.4) of IS 13395: 2021 |
| 149.               |                                                                   | Selection and Size                                   | (Cl.4.3) of IS 13395: 2021 |
| 150.               |                                                                   | Thermal Insulation                                   | (Cl.5.7) of IS 13395: 2021 |
| 151.               |                                                                   | Torque Strength                                      | (Cl.5.3) of IS 13395: 2021 |
| 152.               |                                                                   | Washing Resistance                                   | (Cl.5.9) of IS 13395: 2021 |



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| Mechanical Testing |                                             |                                                     |                            |
|--------------------|---------------------------------------------|-----------------------------------------------------|----------------------------|
| Sl. No.            | Product(s)/Material of Test                 | Specific Tests Performed                            | Test Method                |
|                    | Performance, Durability and Safety Test     |                                                     |                            |
| 153.               | Stainless Steel Sinks for Domestic Purposes | Bowl Locating Limits                                | (Cl.6.4) of IS 13983: 1994 |
| 154.               |                                             | Construction and Workmanship                        | (Cl.7) of IS 13983: 1994   |
| 155.               |                                             | Coordinating Sizes                                  | (Cl.6.5) of IS 13983: 1994 |
| 156.               |                                             | Depth of Bowls                                      | (Cl.6.2) of IS 13983: 1994 |
| 157.               |                                             | Dimensions and Tolerances: Thickness of Sheet/Strip | (Cl.6.1) of IS 13983: 1994 |
| 158.               |                                             | Finish                                              | (Cl.8) of IS 13983: 1994   |
| 159.               |                                             | Internal Dimensions of Bowls                        | (Cl.6.3) of IS 13983: 1994 |
| 160.               |                                             | Materials                                           | (Cl.5) of IS 13983: 1994   |
| 161.               |                                             | Overflows                                           | (Cl.7.6) of IS 13983: 1994 |
| 162.               |                                             | Tap Holes                                           | (Cl.7.5) of IS 13983: 1994 |
| 163.               |                                             | Types                                               | (Cl.4) of IS 13983: 1994   |
| 164.               |                                             | Waste Outlet                                        | (Cl.7.4) of IS 13983: 1994 |

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| Mechanical Testing |                                         |                                          |                                             |
|--------------------|-----------------------------------------|------------------------------------------|---------------------------------------------|
| Sl. No.            | Product(s)/Material of Test             | Specific Tests Performed                 | Test Method                                 |
|                    | Performance, Durability and Safety Test |                                          |                                             |
| 165.               | Domestic Pressure Cooker                | Abrasion Resistance                      | (ANNEX E-3 of 2347: 2023) & IS 6057: 1988   |
| 166.               |                                         | Alkali Resistance                        | (ANNEX P of 2347: 2023)                     |
| 167.               |                                         | Bursting Pressure Test                   | (Cl.8.5) of IS 2347: 2017                   |
| 168.               |                                         | Capacities                               | (Cl.4) of IS 2347: 2023                     |
| 169.               |                                         | Construction                             | (Cl.6) of IS 2347: 2023                     |
| 170.               |                                         | Construction: Handles and Knobs          | (Cl.6.4) of IS 2347: 2023                   |
| 171.               |                                         | Construction: Pressure Regulating Device | (Cl.6.1) of IS 2347: 2023                   |
| 172.               |                                         | Construction: Safety Relief Device       | (Cl.6.2) of IS 2347: 2023                   |
| 173.               |                                         | External Coating                         | (Cl.8.11 of 2347: 2023) & IS 9730: 2008     |
| 174.               |                                         | Hardness: Routine Test                   | (ANNEX E-4.2 of 2347: 2023) & IS 6057: 1988 |

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| Mechanical Testing |                                         |                                         |                                                                            |
|--------------------|-----------------------------------------|-----------------------------------------|----------------------------------------------------------------------------|
| Sl. No.            | Product(s)/Material of Test             | Specific Tests Performed                | Test Method                                                                |
|                    | Performance, Durability and Safety Test |                                         |                                                                            |
| 175.               | Domestic Pressure Cooker                | Hardness: Type Test                     | (ANNEX E-4.1 of 2347: 2023) & ISO 6507-1&4: 2018 & IS 1501(Part 1&4): 2020 |
| 176.               |                                         | Internal Coating                        | (CI.8.12 of 2347: 2023) & IS 9730: 2008                                    |
| 177.               |                                         | Materials                               | (CI.5) of IS 2347: 2023                                                    |
| 178.               |                                         | Materials: Body, Lid, Containers & Grid | (CI.5.1 of 2347: 2023) & IS 5522: 2014                                     |
| 179.               |                                         | Materials: Gasket                       | (CI.5.3 of 2347: 2023) & IS 7466: 1994                                     |
| 180.               |                                         | Materials: Handles and Knobs            | (CI.5.4 of 2347: 2023) & IS 13395: 2021                                    |
| 181.               |                                         | Materials: Pressure Regulating Device   | (CI.5.5) of IS 2347: 2023                                                  |
| 182.               |                                         | Materials: Safety Relief Device         | (CI.5.2) of IS 2347: 2023                                                  |
| 183.               |                                         | Materials: Spring                       | (CI.5.9) of IS 2347: 2023                                                  |
| 184.               |                                         | Materials: Vent Pipe                    | (CI.5.7) of IS 2347: 2023                                                  |

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| Mechanical Testing |                                         |                                                         |                                                       |
|--------------------|-----------------------------------------|---------------------------------------------------------|-------------------------------------------------------|
| Sl. No.            | Product(s)/Material of Test             | Specific Tests Performed                                | Test Method                                           |
|                    | Performance, Durability and Safety Test |                                                         |                                                       |
| 185.               | Domestic Pressure Cooker                | Materials: Vent Pipe Nut                                | (Cl.5.8) of IS 2347: 2023                             |
| 186.               |                                         | Materials: Vent Seal Pin for Pressure Regulating Device | (Cl.5.6) of IS 2347: 2023                             |
| 187.               |                                         | Operating test for Pressure Regulating Device           | (Cl.8.3) of IS 2347: 2023                             |
| 188.               |                                         | Pressure Cooker with Integral Electrical Heating Device | (Cl.8.13 of 2347: 2023) & IS 302-Part.2- Sec.15: 2009 |
| 189.               |                                         | Proof Pressure Test                                     | (Cl.8.2) of IS 2347: 2023                             |
| 190.               |                                         | Resistance to Staining of Anodized Coatings             | (ANNEX N of 2347: 2023) & IS 2347: 2017               |
| 191.               |                                         | Temperature Responsive Pressure Regulating Device       | (Cl.6.3) of IS 2347: 2023                             |
| 192.               |                                         | Test For Hard Anodized Surface: Finish and Appearance   | (ANNEX E-1.2 of 2347: 2023) & IS 6057: 1988           |
| 193.               |                                         | Test for Safety Relief Device                           | (Cl.8.4) of IS 2347: 2023                             |
| 194.               |                                         | Test for Spring Loaded Mechanism                        | (Cl.8.7) of IS 2347: 2023                             |

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| Mechanical Testing |                                         |                                                                              |                                           |
|--------------------|-----------------------------------------|------------------------------------------------------------------------------|-------------------------------------------|
| Sl. No.            | Product(s)/Material of Test             | Specific Tests Performed                                                     | Test Method                               |
|                    | Performance, Durability and Safety Test |                                                                              |                                           |
| 195.               | Domestic Pressure Cooker                | Test for Spring Loaded Mechanism: For Induction Compatible Base              | (Cl.8.9) of IS 2347: 2023                 |
| 196.               |                                         | Test for Spring Loaded Mechanism: For SS Cookers which have Composite Bottom | (Cl.8.8 of 2347: 2023)                    |
| 197.               |                                         | Test for Spring Loaded Mechanism: The Handles of the Cooker                  | (Cl.8.10 of 2347: 2023) & IS 13395: 2021  |
| 198.               |                                         | Tests for Removal of Lid under Pressure: For Outer Lid Cooker                | (Cl.8.6.1) of IS 2347: 2023               |
| 199.               |                                         | Tests: Air Pressure Test                                                     | (Cl.8.1) of IS 2347: 2023                 |
| 200.               |                                         | Thickness                                                                    | (ANNEX E-2 of 2347: 2023) & IS 5523: 1983 |
| 201.               |                                         | Workmanship and Finish: Hard Anodized                                        | (Cl. 7.4) of IS 2347: 2023                |
| 202.               |                                         | Workmanship and Finish: Plated Chromium over Nickel                          | (Cl.7.3 of 2347: 2023) & IS 1068: 1993    |

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| Mechanical Testing |                                                                                     |                                                                      |                                                     |
|--------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                                                         | Specific Tests Performed                                             | Test Method                                         |
|                    | <b>Rubber and Rubber Products</b>                                                   |                                                                      |                                                     |
| 1.                 | Rubber Hose for Liquefied Petroleum Gas (LPG) - Domestic and Commercial Application | Burning Behaviour                                                    | (Cl.4.5.7) IS 9573 P2: 2017                         |
| 2.                 |                                                                                     | Dimensions and Tolerances: Length                                    | (Cl.4.3.3) IS 9573 P2: 2017                         |
| 3.                 |                                                                                     | Flexibility of Hose                                                  | (Cl.4.5.3) IS 9573 P2: 2017                         |
| 4.                 |                                                                                     | Grip Strength Test                                                   | (Cl.4.5.6) IS 9573 P2: 2017                         |
| 5.                 |                                                                                     | Hydraulic Test Requirement: Bursting Pressure test                   | (Cl.4.5.2.2 of IS 9573 P2: 2017) & IS 443: 1975     |
| 6.                 |                                                                                     | Hydraulic Test Requirement: Proof Pressure Test                      | (Cl.4.5.5.1 of IS 9573 P2: 2017) & IS 443: 1975     |
| 7.                 |                                                                                     | Low Temperature Flexibility                                          | (Cl.4.5.2) IS 9573 P2: 2017                         |
| 8.                 |                                                                                     | Material: Cover                                                      | (Cl.4.2.3) IS 9573 P2: 2017                         |
| 9.                 |                                                                                     | Material: Lining                                                     | (Cl.4.2.1) IS 9573 P2: 2017                         |
| 10.                |                                                                                     | Ozone Resistance                                                     | (Cl.4.5.4) IS 9573 P2: 2017                         |
| 11.                |                                                                                     | Requirements: General                                                | (Cl.4.1) IS 9573 P2: 2017                           |
| 12.                |                                                                                     | Dimensions and Tolerances: Bore Size                                 | (Cl.4.3.1 of IS 9573 P2: 2017) & IS 443: 1975       |
| 13.                |                                                                                     | Dimensions and Tolerances: Thickness of Cover                        | (Cl.4.3.2 of IS 9573 P2: 2017) & IS 443: 1975       |
| 14.                |                                                                                     | Dimensions and Tolerances: Thickness of Lining                       | (Cl.4.3.2 of IS 9573 P2: 2017) & IS 443: 1975       |
| 15.                |                                                                                     | Hydraulic Test Requirement: Change in Length                         | (Cl.4.5.5.1 of IS 9573 P2: 2017) & IS 443: 1975     |
| 16.                |                                                                                     | Performance Requirements: Adhesion - Between layers of Reinforcement | (Cl.4.5.1 of IS 9573 P2 : 2017) & IS 3400 P24: 2021 |

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| Mechanical Testing |                                                                                     |                                                                                           |                                                    |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                                                         | Specific Tests Performed                                                                  | Test Method                                        |
|                    | Rubber and Rubber Products                                                          |                                                                                           |                                                    |
| 17.                | Rubber Hose for Liquefied Petroleum Gas (LPG) - Domestic and Commercial Application | Performance Requirements: Adhesion - Cover to Reinforcement                               | (Cl.4.5.1 of IS 9573 P2: 2017) & IS 3400 P24: 2021 |
| 18.                |                                                                                     | Performance Requirements: Adhesion - Lining to Reinforcement                              | (Cl.4.5.1 of IS 9573 P2: 2017) & IS 3400 P24: 2021 |
| 19.                |                                                                                     | Requirement of Physical Properties of Lining & Cover Compounds: Elongation (Cover)        | (Cl.4.4.1 of IS 9573 P2: 2017) & IS 3400 P1: 2021  |
| 20.                |                                                                                     | Requirement of Physical Properties of Lining & Cover Compounds: Elongation (Lining)       | (Cl.4.4.1 of IS 9573 P2: 2017) & IS 3400 P1: 2021  |
| 21.                |                                                                                     | Requirement of Physical Properties of Lining & Cover Compounds: Tensile Strength (Cover)  | (Cl.4.4.1 of IS 9573 P2: 2017) & IS 3400 P1: 2021  |
| 22.                |                                                                                     | Requirement of Physical Properties of Lining & Cover Compounds: Tensile Strength (Lining) | (Cl.4.4.1 of IS 9573 P2: 2017) & IS 3400 P1: 2021  |
| 23.                |                                                                                     | Resistance of Lining to n-pentane                                                         | (Cl.4.4.3) IS 9573 P2: 2017                        |
| 24.                |                                                                                     | Resistance to Ageing - Change in elongation (Cover)                                       | (Cl.4.4.2 of IS 9573 P2: 2017) & IS 3400 P4: 2012  |
| 25.                |                                                                                     | Resistance to Ageing - Change in elongation (Lining)                                      | (Cl.4.4.2 of IS 9573 P2: 2017) & IS 3400 P4: 2012  |
| 26.                |                                                                                     | Resistance to Ageing - Change in tensile strength (Cover)                                 | (Cl.4.4.2 of IS 9573 P2 : 2017) & IS 3400 P4: 2012 |

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# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

**Aaditech Test & Calibration Lab LLP (Unit-II)**

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Village Mohammad Pur Majri, BLK-C, Rama Vihar  
Delhi -110081, India

QAI/CIA/TL/2025/0144

Valid from: 10 Oct 2025

Valid until :09 Oct 2027

Accreditation Standard: ISO/IEC 17025:2017

| Mechanical Testing |                                                                                     |                                                            |                                                    |
|--------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                                                         | Specific Tests Performed                                   | Test Method                                        |
|                    | <b>Rubber and Rubber Products</b>                                                   |                                                            |                                                    |
| 27.                | Rubber Hose for Liquefied Petroleum Gas (LPG) - Domestic and Commercial Application | Resistance to Ageing - Change in tensile strength (Lining) | (Cl.4.4.2 of IS 9573 P2 : 2017) & IS 3400 P4: 2012 |
| 28.                | Rubber Hose for Liquefied Petroleum Gas (LPG) - Industrial Application              | Burning Behaviour                                          | (Cl.4.5.7) IS 9573 P1: 2017                        |
| 29.                |                                                                                     | Dimensions and Tolerances: Length                          | (Cl.4.3.3) IS 9573 P1: 2017                        |
| 30.                |                                                                                     | Electrical Continuity Test                                 | (Cl.4.5.6) IS 9573 P1: 2017                        |
| 31.                |                                                                                     | Flexibility of Hose                                        | (Cl.4.5.3) IS 9573 P1: 2017                        |
| 32.                |                                                                                     | Hydraulic Test Requirement: Bursting Pressure test         | (Cl.4.5.2.2 of IS 9573 P1: 2017) & IS 443: 1975    |
| 33.                |                                                                                     | Hydraulic Test Requirement: Proof Pressure Test            | (Cl.4.5.5.1 of IS 9573 P1: 2017) & IS 443: 1975    |
| 34.                |                                                                                     | Low Temperature Flexibility                                | (Cl.4.5.2) IS 9573 P1: 2017                        |
| 35.                |                                                                                     | Material: Cover                                            | (Cl.4.2.3) IS 9573 P1: 2017                        |
| 36.                |                                                                                     | Material: Lining                                           | (Cl.4.2.1) IS 9573 P1: 2017                        |
| 37.                |                                                                                     | Material: Reinforcement                                    | (Cl.4.2.2) IS 9573 P1: 2017                        |
| 38.                |                                                                                     | Ozone Resistance                                           | (Cl.4.5.4) IS 9573 P1: 2017                        |
| 39.                |                                                                                     | Requirements: General                                      | (Cl.4.1) IS 9573 P1: 2017                          |
| 40.                |                                                                                     | Dimensions and Tolerances: Bore Size                       | (Cl.4.3.1 of IS 9573 P1: 2017) & IS 443: 1975      |
| 41.                |                                                                                     | Dimensions and Tolerances: Thickness of Cover              | (Cl.4.3.2 of IS 9573 P1: 2017) & IS 443: 1975      |

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Valid from: 10 Oct 2025

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Accreditation Standard: ISO/IEC 17025:2017

| Mechanical Testing |                                                                        |                                                                                           |                                                    |
|--------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                                            | Specific Tests Performed                                                                  | Test Method                                        |
|                    | Rubber and Rubber Products                                             |                                                                                           |                                                    |
| 42.                | Rubber Hose for Liquefied Petroleum Gas (LPG) - Industrial Application | Dimensions and Tolerances: Thickness of Lining                                            | (Cl.4.3.2 of IS 9573 P1: 2017) & IS 443: 1975      |
| 43.                |                                                                        | Hydraulic Test Requirement: Change in Length                                              | (Cl.4.5.5.1 of IS 9573 P1: 2017) & IS 443: 1975    |
| 44.                |                                                                        | Performance Requirements: Adhesion - Between layers of Reinforcement                      | (Cl.4.5.1 of IS 9573 P1: 2017) & IS 3400 P24: 2021 |
| 45.                |                                                                        | Performance Requirements: Adhesion - Cover to Reinforcement                               | (Cl.4.5.1 of IS 9573 P1: 2017) & IS 3400 P24: 2021 |
| 46.                |                                                                        | Performance Requirements: Adhesion - Lining to Reinforcement                              | (Cl.4.5.1 of IS 9573 P1: 2017) & IS 3400 P24: 2021 |
| 47.                |                                                                        | Requirement of Physical Properties of Lining & Cover Compounds: Elongation (Cover)        | (Cl.4.4.1 of IS 9573 P1: 2017) & IS 3400 P1: 2021  |
| 48.                |                                                                        | Requirement of Physical Properties of Lining & Cover Compounds: Elongation (Lining)       | (Cl.4.4.1 of IS 9573 P1: 2017) & IS 3400 P1: 2021  |
| 49.                |                                                                        | Requirement of Physical Properties of Lining & Cover Compounds: Tensile Strength (Cover)  | (Cl.4.4.1 of IS 9573 P1: 2017) & IS 3400 P1: 2021  |
| 50.                |                                                                        | Requirement of Physical Properties of Lining & Cover Compounds: Tensile Strength (Lining) | (Cl.4.4.1 of IS 9573 P1: 2017) & IS 3400 P1: 2021  |
| 51.                |                                                                        | Resistance of Lining to n-pentane                                                         | (Cl.4.4.3) IS 9573 P1: 2017                        |

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Accreditation Standard: ISO/IEC 17025:2017

| Mechanical Testing |                                                                        |                                                            |                                                   |
|--------------------|------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                                            | Specific Tests Performed                                   | Test Method                                       |
|                    | <b>Rubber and Rubber Products</b>                                      |                                                            |                                                   |
| 52.                | Rubber Hose for Liquefied Petroleum Gas (LPG) - Industrial Application | Resistance to Ageing - Change in elongation (Cover)        | (Cl.4.4.2 of IS 9573 P1: 2017) & IS 3400 P4: 2012 |
| 53.                |                                                                        | Resistance to Ageing - Change in elongation (Lining)       | (Cl.4.4.2 of IS 9573 P1: 2017) & IS 3400 P4: 2012 |
| 54.                |                                                                        | Resistance to Ageing - Change in tensile strength (Cover)  | (Cl.4.4.2 of IS 9573 P1: 2017) & IS 3400 P4: 2012 |
| 55.                |                                                                        | Resistance to Ageing - Change in tensile strength (Lining) | (Cl.4.4.2 of IS 9573 P1: 2017) & IS 3400 P4: 2012 |
| 56.                | Rubber Hose for Welding                                                | Dimensions and Tolerances: Length                          | (Cl.3.2.3) IS 447: 1988                           |
| 57.                |                                                                        | Performance Requirements: Burst Pressure                   | (Cl.3.4 of 447: 1988) & IS 443 P3: 2017           |
| 58.                |                                                                        | Performance Requirements: Hydrostatic test pressure        | (Cl.3.4 of 447: 1988) & IS 443 P3: 2017           |
| 59.                |                                                                        | Requirements: Construction - Colour of Cover               | (Cl.3.1) IS 447: 1988                             |
| 60.                |                                                                        | Requirements: Construction - Lining, Reinforcement & Cover | (Cl.3.1) IS 447: 1988                             |
| 61.                |                                                                        | Accelerated Ageing - Change in elongation (Cover)          | (cl.3.3 of 447: 1988) & IS 3400 P4: 2012          |
| 62.                |                                                                        | Accelerated Ageing - Change in elongation (Lining)         | (cl.3.3 of 447: 1988) & IS 3400 P4: 2012          |
| 63.                |                                                                        | Accelerated Ageing - Change in tensile strength (Cover)    | (Cl.3.3 of 447: 1988) & IS 3400 P4: 2012          |

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Accreditation Standard: ISO/IEC 17025:2017

| Mechanical Testing |                             |                                                                          |                                           |
|--------------------|-----------------------------|--------------------------------------------------------------------------|-------------------------------------------|
| Sl. No.            | Product(s)/Material of Test | Specific Tests Performed                                                 | Test Method                               |
|                    | Rubber and Rubber Products  |                                                                          |                                           |
| 64.                | Rubber Hose for Welding     | Accelerated Ageing - Change in tensile strength (Lining)                 | (Cl.3.3 of 447: 1988) & IS 3400 P4: 2012  |
| 65.                |                             | Adhesion between components: Between Reinforcements                      | (Cl.3.4 of 447: 1988) & IS 3400 P24: 2021 |
| 66.                |                             | Adhesion between components: Cover to Reinforcement                      | (Cl.3.4 of 447: 1988) & IS 3400 P24: 2021 |
| 67.                |                             | Adhesion between components: Lining to Reinforcement                     | (Cl.3.4 of 447: 1988) & IS 3400 P24: 2021 |
| 68.                |                             | Dimensions and Tolerances: Bore Size                                     | (Cl.3.2.1 of 447: 1988) & IS 443: 1975    |
| 69.                |                             | Dimensions and Tolerances: Cover Thickness                               | (Cl.3.2.2 of 447: 1988) & IS 443: 1975    |
| 70.                |                             | Dimensions and Tolerances: Lining Thickness                              | (Cl.3.2.2 of 447: 1988) & IS 443: 1975    |
| 71.                |                             | Performance Requirements: Change in length at proof pressure             | (Cl.3.4 of 447: 1988) & IS 443 P3: 2017   |
| 72.                |                             | Performance Requirements: Increase in Outside diameter at proof pressure | (Cl.3.4 of 447: 1988) & IS 443 P3: 2017   |
| 73.                |                             | Physical Requirements: Elongation (Cover)                                | (Cl.3.3 of 447: 1988) & IS 3400 P1: 2021  |
| 74.                |                             | Physical Requirements: Elongation (Lining)                               | (Cl.3.3 of 447: 1988) & IS 3400 P1: 2021  |

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| Mechanical Testing |                                                      |                                                  |                                                             |
|--------------------|------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                          | Specific Tests Performed                         | Test Method                                                 |
|                    | <b>Rubber and Rubber Products</b>                    |                                                  |                                                             |
| 75.                | Rubber Hose for Welding                              | Physical Requirements: Tensile Strength (Cover)  | (Cl.3.3 of 447: 1988) & IS 3400 P1: 2021                    |
| 76.                |                                                      | Physical Requirements: Tensile Strength (Lining) | (Cl.3.3 of 447: 1988) & IS 3400 P1: 2021                    |
| 77.                | Rubber Hoses, Textile-Reinforced, for Compressed Air | Classification                                   | (Cl.4) ISO 2398: 2005 & IS 446: 2017                        |
| 78.                |                                                      | Dimensions: Concentricity                        | (Cl.6.2 of ISO 2398: 2005 & IS 446: 2017) & IS 15913: 2011  |
| 79.                |                                                      | Dimensions: Tolerance on Length                  | (Cl.6.3 of ISO 2398: 2005 & IS 446: 2017) & IS 15933: 2011  |
| 80.                |                                                      | Finished Hose: Flexibility at 23°C               | (Cl.7.2 of ISO 2398: 2005 & IS 446: 2017) & IS 12656: 2014  |
| 81.                |                                                      | Finished Hose: Low Temperature Flexibility       | (Cl.7.2 of ISO 2398: 2005 & IS 446: 2017) & IS 12657: 2014  |
| 82.                |                                                      | Finished Hose: Minimum Burst Pressure            | (Cl.7.2 of ISO 2398: 2005 & IS 446: 2017) & IS 443 P3: 2017 |
| 83.                |                                                      | Finished Hose: Ozone Resistance                  | (Cl.7.2 of ISO 2398: 2005 & IS 446: 2017) & IS 443 P1: 2017 |
| 84.                |                                                      | Finished Hose: Proof Pressure                    | (Cl.7.2 of ISO 2398: 2005 & IS 446: 2017) & IS 443 P3: 2017 |
| 85.                |                                                      | Materials and Construction                       | (Cl.5) ISO 2398: 2005 & IS 446: 2017                        |





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| Mechanical Testing |                                                      |                                                               |                                                               |
|--------------------|------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                          | Specific Tests Performed                                      | Test Method                                                   |
|                    | <b>Rubber and Rubber Products</b>                    |                                                               |                                                               |
| 86.                | Rubber Hoses, Textile-Reinforced, for Compressed Air | Resistance to Liquids: Increase in volume of Cover (Class C)  | (Cl.7.1 of ISO 2398: 2005 & IS 446: 2017) & IS 3400 P6: 2018  |
| 87.                |                                                      | Resistance to Liquids: Increase in volume of Lining (Class B) | (Cl.7.1 of ISO 2398: 2005 & IS 446: 2017) & IS 3400 P6: 2018  |
| 88.                |                                                      | Resistance to Liquids: Increase in volume of Lining (Class C) | (Cl.7.1 of ISO 2398: 2005 & IS 446: 2017) & IS 3400 P6: 2018  |
| 89.                |                                                      | Adhesion between components: Between Reinforcements           | (Cl.7.2 of ISO 2398: 2005 & IS 446: 2017) & IS 3400 P24: 2021 |
| 90.                |                                                      | Adhesion between components: Cover to Reinforcement           | (Cl.7.2 of ISO 2398: 2005 & IS 446: 2017) & IS 3400 P24: 2021 |
| 91.                |                                                      | Adhesion between components: Lining to Reinforcement          | (Cl.7.2 of ISO 2398: 2005 & IS 446: 2017) & IS 3400 P24: 2021 |
| 92.                |                                                      | Dimensions: Internal diameters and tolerances                 | (Cl.6.1 of ISO 2398: 2005 & IS 446: 2017) & IS 15913: 2011    |
| 93.                |                                                      | Dimensions: Minimum Thickness of Cover                        | (Cl.6.4 of ISO 2398: 2005 & IS 446: 2017) & IS 15913: 2011    |
| 94.                |                                                      | Dimensions: Minimum Thickness of Lining                       | (Cl.6.4 of ISO 2398: 2005 & IS 446: 2017) & IS 15913: 2011    |
| 95.                |                                                      | Finished Hose: Change in diameter at maximum working pressure | (Cl.7.2 of ISO 2398: 2005 & IS 446: 2017) & IS 443 P3: 2017   |

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| Mechanical Testing |                                                                         |                                                                   |                                                              |
|--------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                                             | Specific Tests Performed                                          | Test Method                                                  |
|                    | <b>Rubber and Rubber Products</b>                                       |                                                                   |                                                              |
| 96.                | Rubber Hoses, Textile-Reinforced, for Compressed Air                    | Finished Hose: Change in length at maximum working pressure       | (Cl.7.2 of ISO 2398: 2005 & IS 446: 2017) & IS 443 P3: 2017  |
| 97.                |                                                                         | Physical Properties: Rubber Compounds - Elongation (Cover)        | (Cl.7.1 of ISO 2398: 2005 & IS 446: 2017) & IS 3400 P1: 2021 |
| 98.                |                                                                         | Physical Properties: Rubber Compounds - Elongation (Lining)       | (Cl.7.1 of ISO 2398: 2005 & IS 446: 2017) & IS 3400 P1: 2021 |
| 99.                |                                                                         | Physical Properties: Rubber Compounds - Tensile Strength (Cover)  | (Cl.7.1 of ISO 2398: 2005 & IS 446: 2017) & IS 3400 P1: 2021 |
| 100.               |                                                                         | Physical Properties: Rubber Compounds - Tensile Strength (Lining) | (Cl.7.1 of ISO 2398: 2005 & IS 446: 2017) & IS 3400 P1: 2021 |
| 101.               |                                                                         | Resistance to Ageing - Change in elongation (Cover)               | (Cl.7.1 of ISO 2398: 2005 & IS 446: 2017) & IS 3400 P4: 2012 |
| 102.               |                                                                         | Resistance to Ageing - Change in elongation (Lining)              | (Cl.7.1 of ISO 2398: 2005 & IS 446: 2017) & IS 3400 P4: 2012 |
| 103.               |                                                                         | Resistance to Ageing - Change in tensile strength (Cover)         | (Cl.7.1 of ISO 2398: 2005 & IS 446: 2017) & IS 3400 P4: 2012 |
| 104.               |                                                                         | Resistance to Ageing - Change in tensile strength (Lining)        | (Cl.7.1 of ISO 2398: 2005 & IS 446: 2017) & IS 3400 P4: 2012 |
| 105.               | Rubber Hoses, Textile-Reinforced, for General-Purpose Water Application | Finished Hose: Low Temperature Flexibility                        | (Cl.7.2 of ISO 1403: 2019 & IS 444: 2025) & IS 12657: 2014   |



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| Mechanical Testing |                                                                         |                                                     |                                                                |
|--------------------|-------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                                             | Specific Tests Performed                            | Test Method                                                    |
|                    | Rubber and Rubber Products                                              |                                                     |                                                                |
| 106.               | Rubber Hoses, Textile-Reinforced, for General-Purpose Water Application | Classification                                      | (Cl.4) ISO 1403: 2019 & IS 444: 2025                           |
| 107.               |                                                                         | Dimensions: Concentricity                           | (Cl.6.2 of ISO 1403: 2019 & IS 444: 2025) & IS 15913: 2011     |
| 108.               |                                                                         | Dimensions: Tolerance on Length                     | (Cl.6.3 of ISO 1403: 2019 & IS 444: 2025) & IS 15933: 2011     |
| 109.               |                                                                         | Finished Hose: Flexibility at 23°C                  | (Cl.7.2 of ISO 1403: 2019 & IS 444: 2025) & IS 12656: 2014     |
| 110.               |                                                                         | Finished Hose: Minimum Burst Pressure               | (Cl.7.2 of ISO 1403: 2019 & IS 444: 2025) & IS 443 P3: 2017    |
| 111.               |                                                                         | Finished Hose: Ozone Resistance                     | (Cl.7.2 of ISO 1403: 2019 & IS 444: 2025) & IS 443 P1: 2017    |
| 112.               |                                                                         | Finished Hose: Proof Pressure at 23°C               | (Cl.7.2 of ISO 1403: 2019 & IS 444: 2025) & IS 443 P3: 2017    |
| 113.               |                                                                         | Materials and Construction                          | (Cl.5) ISO 1403: 2019 & IS 444: 2025                           |
| 114.               |                                                                         | Adhesion between components: Between Reinforcements | (Cl.7.2 of ISO 1403: 2019 & IS 444: 2025) & IS 3400 P24: 2021  |
| 115.               |                                                                         | Adhesion between components: Cover to Reinforcement | (Cl.7.2 of ISO 1403: 2019 & IS 444 : 2025) & IS 3400 P24: 2021 |

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| Mechanical Testing |                                                                         |                                                                      |                                                               |
|--------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                                             | Specific Tests Performed                                             | Test Method                                                   |
|                    | Rubber and Rubber Products                                              |                                                                      |                                                               |
| 116.               | Rubber Hoses, Textile-Reinforced, for General-Purpose Water Application | Adhesion between components: Lining to Reinforcement                 | (Cl.7.2 of ISO 1403: 2019 & IS 444: 2025) & IS 3400 P24: 2021 |
| 117.               |                                                                         | Dimensions: Internal diameters and tolerances                        | (Cl.6.1 of ISO 1403: 2019 & IS 444: 2025) & IS 15913: 2011    |
| 118.               |                                                                         | Dimensions: Minimum Thickness of Lining & Cover                      | (Cl.6.4 of ISO 1403: 2019 & IS 444: 2025) & IS 15913: 2011    |
| 119.               |                                                                         | Finished Hose: Change in length at proof pressure                    | (Cl.7.2 of ISO 1403: 2019 & IS 444: 2025) & IS 443 P3: 2017   |
| 120.               |                                                                         | Physical Properties: Rubber Compounds - Elongation at Break (Cover)  | (Cl.7.1 of ISO 1403: 2019 & IS 444: 2025) & IS 3400 P1: 2021  |
| 121.               |                                                                         | Physical Properties: Rubber Compounds - Elongation at Break (Lining) | (Cl.7.1 of ISO 1403: 2019 & IS 444: 2025) & IS 3400 P1: 2021  |
| 122.               |                                                                         | Physical Properties: Rubber Compounds - Tensile Strength (Cover)     | (Cl.7.1 of ISO 1403: 2019 & IS 444: 2025) & IS 3400 P1: 2021  |
| 123.               |                                                                         | Physical Properties: Rubber Compounds - Tensile Strength (Lining)    | (Cl.7.1 of ISO 1403: 2019 & IS 444: 2025) & IS 3400 P1: 2021  |
| 124.               |                                                                         | Resistance to Ageing - Change in elongation (Cover)                  | (Cl.7.1 of ISO 1403: 2019 & IS 444: 2025) & IS 3400 P4: 2012  |
| 125.               |                                                                         | Resistance to Ageing - Change in elongation (Lining)                 | (Cl.7.1 of ISO 1403: 2019 & IS 444: 2025) & IS 3400 P4: 2012  |

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| Mechanical Testing |                                                                         |                                                            |                                                              |
|--------------------|-------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                                             | Specific Tests Performed                                   | Test Method                                                  |
|                    | <b>Rubber and Rubber Products</b>                                       |                                                            |                                                              |
| 126.               | Rubber Hoses, Textile-Reinforced, for General-Purpose Water Application | Resistance to Ageing - Change in tensile strength (Cover)  | (Cl.7.1 of ISO 1403: 2019 & IS 444: 2025) & IS 3400 P4: 2012 |
| 127.               |                                                                         | Resistance to Ageing - Change in tensile strength (Lining) | (Cl.7.1 of ISO 1403: 2019 & IS 444: 2025) & IS 3400 P4: 2012 |

