

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

PAAM Testing Labs Private Limited

Plot No.-41, Udyog Kendra Extension-II, Ecotech-III, Greater Noida,
Gautam Budha Nagar-201306, Uttar Pradesh, 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/2025/0108

Valid from: 19 March 2025

Valid until: 18 March 2027

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA



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Accreditation Standard: ISO/IEC 17025:2017

| Chemical Testing | | | |
|------------------|--|---|------------------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Water | | |
| 1. | Water for Construction Purpose | Organic Solids | IS:3025(P-18)-2022 |
| 2. | | Inorganic Solids | IS:3025(P-18)-2022 |
| 3. | | Sulphate as SO ₃ | IS:3025(P-24/S-1)-2022 |
| 4. | | Chloride as Cl | IS:3025(P-32)-1988 RA 2019 |
| 5. | | Total Suspended Solids | IS:3025(P-17)-2022 |
| 6. | | pH Value | IS:3025(P-11)-2022 |
| 7. | | Alkalinity (Vol. of 0.02N H ₂ SO ₄ used for 100 ml of Sample) | IS:3025(P-23)-2023 |
| 8. | | Acidity (Vol. of 0.02N NaOH used for 100 ml of Sample) | IS:3025(P-22) 2024 |
| 9. | Drinking Water / Ground Water / RO Water | Alkalinity (as CaCO ₃) | IS 3025 (Part 23) : 2023 |
| 10. | | Calcium (as Ca) | IS 3025 (Part 40): 2024 |
| 11. | | Chloride (as Cl) | IS 3025 (Part 32): 1988 RA 2019 |
| 12. | | Colour | IS 3025 (Part 4): 2021 |
| 13. | | Fluoride | IS: 3025 (Part- 60/ Sec - 1): 2023 |
| 14. | | Iron (as Fe) | IS 3025 (Part 53) : 2024 |
| 15. | | Magnesium (as Mg) | IS 3025 (Part 46): 2023 |
| 16. | | Nitrate (as NO ₃) | IS 3025 (Part 34 / Sec -1): 2023 |
| 17. | | Odour | IS 3025 (Part 5):2018 |

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|------------------|--|--|---|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Water | | |
| 18. | Drinking Water / Ground Water / RO Water | pH value | IS 3025 (Part 11): 2022 |
| 19. | | Residual Free Chlorine | IS 3025 (Part 26): 2021 |
| 20. | | Sulphate (as SO ₄) | IS:3025(P-24/S-1)-2022 |
| 21. | | Taste | IS 3025 (Part 7): 2017 RA 2022 & IS 3025 (Part 8) : 2023 |
| 22. | | Total Dissolved Solids | IS 3025 (Part16) : 2023 |
| 23. | | Total Hardness (as CaCO ₃) | IS 3025 (Part 21) : 2009 RA 2023 |
| 24. | | Turbidity | IS 3025 (Part 10) : 2023 |



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|------------------|------------------------------|----------------------------|---------------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Pollution and Environment | | |
| 1. | Waste Water (STP, ETP, WWTP) | Bio-Chemical Oxygen Demand | IS 3025 (Part 44) :2023 |
| 2. | | Chemical Oxygen Demand | IS 3025 (Part 58):2023 |
| 3. | | Conductivity (at 25'C) | IS 3025 (Part 14) :2013 RA 2023 |
| 4. | | Oil & grease | IS 3025 (Part 39) :2021 |
| 5. | | pH | IS 3025 (Part 11):2022 |
| 6. | | Phosphorus (as P) | IS 3025 (Part 31/Sec 1): 2022 |
| 7. | | Potassium (as K) | IS 3025 (Part 45):2024 |
| 8. | | Sodium (as Na) | IS 3025 (Part 45) :2024 |
| 9. | | Total Dissolved Solids | IS 3025 (Part 16): 2023 |
| 10. | | Total Suspended Solids | IS 3025 (Part 17):2022 |

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| Chemical Testing | | | |
|------------------|--|---|------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Fire Fighting Equipment's & Accessories | | |
| 1. | Foam Concentrate for Producing Mechanical Foam for Fire Fighting | Visual Examination | IS: 4989 - 2018 |
| 2. | | Freezing and Thawing | IS: 4989 - 2018 |
| 3. | | pH both original and ageing | IS: 4989 - 2018 |
| 4. | | Specific Gravity both original and ageing | IS: 4989 - 2018 |
| 5. | | Miscibility with distilled water | IS: 4989 - 2018 |
| 6. | | Viscosity | IS: 1206 (Part-3) 2021 |
| 7. | | Pour Point | IS: 4989 - 2018 |
| 8. | | Sludge content | IS: 4989 - 2018 |
| 9. | | Surface Tension | IS: 4989 - 2018 |
| 10. | | Spreading Coefficient | IS: 4989 - 2018 |
| 11. | | Expansion at 27±5°C | IS: 4989 - 2018 |
| 12. | | 25 % drainage time at 27±5°C | IS: 4989 - 2018 |
| 13. | | Fire test on hydrocarbon fires (non-polar) – Fire Control Time | IS: 4989 - 2018 |
| 14. | | Fire test on hydrocarbon fires (non-polar) – Fire Extinction Time | IS: 4989 - 2018 |

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| Chemical Testing | | | |
|------------------|--|--|-----------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Fire Fighting Equipment's & Accessories | | |
| 15. | Foam Concentrate for Producing Mechanical Foam for Fire Fighting | Fire test on hydrocarbon fires (non-polar) – Seal ability/Film forming | IS: 4989 - 2018 |
| 16. | Foam Concentrate for Producing Mechanical Foam for Fire Fighting | Fire test on hydrocarbon fires (non-polar) – Burn back | IS: 4989 - 2018 |
| 17. | Dry Chemical Powders for Fire Fighting – BC, ABC and D Types | Main Chemical Constituent | IS: 4308 - 2018 |
| 18. | | Apparent density | IS: 4308 - 2019 |
| 19. | | Particle Size / Sieve Analysis | IS: 4308 - 2019 |
| 20. | | Hygroscopicity | IS: 4308 - 2019 |
| 21. | | Water Repellency | IS: 4308 - 2019 |
| 22. | | Moisture Content | IS: 4308 - 2019 |
| 23. | | Rate of Flow | IS: 4308 - 2019 |
| 24. | | Fire Test | IS: 4308 - 2019 |
| 25. | | Temperature Resistance Test | IS: 4308 - 2019 |
| 26. | | Colour | IS: 4308 - 2019 |



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|------------------|--|--|--|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Resin | | |
| 1. | Injection Moulded PVC Fittings | Resistance to sulphuric acid | IS 12235 (Part 7):2004, RA 2019 |
| 2. | Injection Moulded PVC Fittings & PVC Pipes | Sulphated Ash Content | IS 14735: 1999, RA 2019 IS: 4985:2021 |
| 3. | Injection Moulded PVC Fittings & UPVC Pipes | Titanium Dioxide content | IS 14735: 1999, RA 2019 IS 15328: 2003, RA 2018 |
| 4. | Injection Moulded PVC Socket Fittings with Solvent Cement Joints & UPVC Pipe | Opacity test | IS 7834 (P-1): 1987, RA 2018 IS 12235 (Part 3): 2004, RA 2019 |
| 5. | Injection moulded PVC socket fittings with solvent cement joints | Effect On water- Other Toxic Substances (Hg, Cd) | IS 7834 (P-1) : 1987, RA 2018 |
| 6. | Injection moulded pvc socket fittings with solvent cement joints | Effect on Water- Tin (Sn) | IS 7834 (P-1) : 1987, RA 2018 |
| 7. | Injection moulded pvc socket fittings with solvent cement joints | Effect on water-Lead | IS 7834 (P-1) : 1987, RA 2018 |
| 8. | PE Pipe & fittings, raw material, Resin | Carbon Black Masterbatch – Ash Content | IS 14333: 2022 IS 4984: 2016 RA 2021 IS: 17425: 2020 RA 2021 |
| 9. | PE Pipe & fittings, raw material, Resin | PE Compound- Pigment Dispersion | IS 14333: 2022 IS 4984: 2016 RA 2021 IS: 17425: 2020 RA 2021 |

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|------------------|--|--|--|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Resin | | |
| 10. | PE Pipe | PE Compound- Resistant To gas Constituents | IS 14885: 2022 |
| 11. | PE Pipe & Geosynthetic Membranes | Susceptibility to Environmental Stress Cracking | IS:12786: 2024 IS: 16352:2020 |
| 12. | PE Pipe & fittings, raw material, Resin | Toluene Extract in Masterbatch/ Carbon Black | IS 14333: 2022 IS 4984: 2016 RA 2021 IS: 17425: 2020 RA 2021 IS:12786: 2024 IS:14885: 2022 |
| 13. | PE Pipe & fittings, raw material, Resin | Volatile Matter content | IS 4984: 2016 RA 2021 IS:14885: 2022 |
| 14. | PE Resin, Carbon Black Masterbatch | Ash Content % | IS 14333: 2022 IS 4984: 2016 RA 2021 IS: 17425: 2020 RA 2021 |
| 15. | PE Resin, Carbon Black Masterbatch | Maximum volatile matter % | IS 14333: 2022 IS 4984: 2016 RA 2021 IS: 17425: 2020 RA 2021 |
| 16. | PE Resin, Carbon Black Masterbatch | Carbon black particle size % | IS 14333: 2022 IS 4984: 2016 RA 2021 IS: 17425: 2020 RA 2021 |
| 17. | Plastic Materials /Pipes / Containers /Sheets / Films | Polymer Identification | SOP/CHE-PI/00-CIPET |

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| Chemical Testing | | | |
|------------------|---|--|--|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Resin | | |
| 18. | PP, PE, HDPE, LDPE, ABS, PC, PVC Compound | Ash Content in Plastic | ASTM D 5630: 1994 IS: 15225: 2002 RA 2024 |
| 19. | Resin, Plastic & polymer, Raw Material, Plastic Pipe, Geomembrane & Films | Carbon Black Content % | IS 2530: 1963, RA 2018 |
| 20. | | Carbon Black Dispersion | IS 2530: 1963, RA 2018 |
| 21. | | Volatile Matter | IS:4984: 2016 RA 2021 IS:14885: 2022 |
| 22. | | Water Content | IS:4984: 2016 RA 2021 |
| 23. | | Thermal Stability (Oxidation Induction Time) | IS:4984: 2016 RA 2021 IS:14885: 2022; ISO 11357 (Part-6) ASTM D 5885 |
| 24. | | UPVC Pipe | Effect of Sunlight |
| 25. | UPVC Pipe & fittings | Ash Content % | IS 12235: 2004, RA 2019 |
| 26. | UPVC Pipe | K Value | IS 4669: 1968 RA 2018 |
| 27. | UPVC & PVC-O Pipe | Resistance to Di-Chloro methane | IS 12235 (Part 11): 2004, RA 2019 |
| 28. | UPVC Pipe | Vicat Softening Temperature | IS 15328: 2003, RA 2018 |
| 29. | UPVC Pipe | Effect on Water -Cadmium (Cd) | IS 12235 (Part 4) : 2004, RA 2019 |
| 30. | UPVC Pipe | Effect on Water -Lead (Pb) | IS 12235 (Part 4 & 10): 2004, RA 2019 |

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| Chemical Testing | | | |
|------------------|-----------------------------|---|--------------------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Resin | | |
| 31. | UPVC Pipe | Effect on Water-Mercury (Hg) | IS 12235 (Part 4) : 2004, RA 2019 |
| 32. | UPVC Pipe | Effect on water- Tin (Sn) | IS 12235 (Part 4) : 2004, RA 2019 |
| 33. | UPVC Pipe | Effect on water- Other toxic substances such as 'di-n-octyl-tin- mass) s-s bis iso-octyl mercapto acetate' and 'butyl stearate' | IS 12235 (Part 4): 2004, RA 2019 |
| 34. | Aluminium Composite panel | Chemical Resistance | IS: 17682:2021; IS:2046 1995 RA 2020 |



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| Chemical Testing | | | |
|------------------|-----------------------------|--------------------------|--|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Metal & Alloy | | |
| 1. | Mild Steel | Carbon | IS 228 (Part-1): 1987 RA 2018 |
| 2. | Mild Steel | Chromium | IS 228 (Part-6): 2024 / PTL/SOP/CHE/03 |
| 3. | Mild Steel | Copper | IS 228 (Part-15): 1992 RA 2019 / PTL/SOP/CHE/03 |
| 4. | Mild Steel | Manganese | IS 228 (Part-2): 2024 |
| 5. | Mild Steel | Molybdenum | IS 228 (Part-7): 1990 RA 2018 /PTL/SOP/CHE/03 |
| 6. | Mild Steel | Nickel | IS 228 (Part-5): 1987 RA 2023 / PTL/SOP/CHE/03 |
| 7. | Mild Steel | Phosphorus | IS 228 (Part-3): 2024 |
| 8. | Mild Steel | Silicon | IS 228 (Part-8): 1989 RA 2023 |
| 9. | Mild Steel | Sulphur | IS 228 (Part-9): 1989 RA 2023 |
| 10. | Mild Steel | Manganese | IS 228 (Part-2): 2024 |
| 11. | Mild Steel | Aluminium | PTL/SOP/CHE/03 |
| 12. | Mild Steel | Boron | PTL/SOP/CHE/03 |
| 13. | Mild Steel | Cadmium | PTL/SOP/CHE/03 |
| 14. | Mild Steel | Carbon Equivalent (CE) | IS 1786: 2008 RA 2018 |
| 15. | Mild Steel | Carbon Equivalent (CE) | IS 2062:2011, RA 2021 |
| 16. | Mild Steel | Niobium | PTL/SOP/CHE/03 |

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|------------------|-----------------------------------|--------------------------|--|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Metal & Alloy | | |
| 17. | Mild Steel | Tin | PTL/SOP/CHE/03 |
| 18. | Mild Steel | Itanium | PTL/SOP/CHE/03 |
| 19. | Mild Steel | Vanadium | PTL/SOP/CHE/03 |
| 20. | Mild Steel | Nitrogen | IS: 228 (Part-19): 1998 RA 2021 |
| 21. | Stainless Steel | Carbon | IS 228 (Part-1): 1987 RA 2018 |
| 22. | Stainless Steel | Chromium | IS 228 (Part-6): 1987 RA 2018 |
| 23. | Stainless Steel | Manganese | IS 228 (Part-2): 2024 |
| 24. | Stainless Steel | Molybdenum | IS 228 (Part-7): 1990 RA 2018 /PTL/SOP/CHE/04 |
| 25. | Stainless Steel | Nickel | IS 228 (Part-5): 1987 RA 2023 |
| 26. | Stainless Steel | Phosphorus | IS 228 (Part-3): 2024 |
| 27. | Stainless Steel | Silicon | IS 228 (Part-8): 1989 RA 2023 |
| 28. | Stainless Steel | Sulphur | IS 228 (Part-9): 1989 RA 2023 |
| 29. | Stainless Steel | Copper | PTL/SOP/CHE/04 |
| 30. | Stainless Steel | Nitrogen | IS: 228 (Part-19): 1998 RA 2021 |
| 31. | Aluminium its Alloys and Products | Manganese | IS 504: 1963 RA 2023 |
| 32. | Aluminium its Alloys and Products | Boron | PTL/SOP/CHE/01 |

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|------------------|-----------------------------------|--------------------------|--|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Metal & Alloy | | |
| 33. | Aluminium its Alloys and Products | Iron | PTL/SOP/CHE/01 |
| 34. | Aluminium its Alloys and Products | Magnesium | PTL/SOP/CHE/01/ IS 504: 1963, RA 2023 |
| 35. | Aluminium its Alloys and Products | Zinc | PTL/SOP/CHE/01 |
| 36. | Aluminium its Alloys and Products | Chromium | PTL/SOP/CHE/01 |
| 37. | Aluminium its Alloys and Products | Lead | PTL/SOP/CHE/01 |
| 38. | Aluminium its Alloys and Products | VANADIUM | PTL/SOP/CHE/01 |
| 39. | Aluminium its Alloys and Products | Aluminium | IS 737: 2024/ IS 504: 1963 RA 2023 / IS 1285: 2023 |
| 40. | Aluminium its Alloys and Products | Copper | PTL/SOP/CHE/01 |
| 41. | Aluminium its Alloys and Products | Manganese | PTL/SOP/CHE/01 |
| 42. | Aluminium its Alloys and Products | Silicon | IS 504: 1963 RA 2023 |
| 43. | Aluminium its Alloys and Products | Titanium | PTL/SOP/CHE/01 |
| 44. | Copper and Its Alloys (Leaded | Bismuth | PTL/SOP/CHE/01 |
| 45. | Brass Copper and Bronze) | Copper | IS 440: 1964, RA 2018 |

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|------------------|--|---|---|----------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method | |
| | Metal & Alloy | | | |
| 46. | Copper and Its Alloys (Leaded Brass Copper and Bronze) | Copper Purity Test | IS 191: 2007 RA 2021 | |
| 47. | | Phosphorus | IS 440: 1964, RA 2018 | |
| 48. | | Selenium | PTL/SOP/CHE/02 | |
| 49. | | Silver | PTL/SOP/CHE/02 | |
| 50. | | Oxygen | IS: 440: 1964 RA 2018 | |
| 51. | | Aluminium | PTL/SOP/CHE/02 | |
| 52. | | Arsenic | PTL/SOP/CHE/02 | |
| 53. | | Lead | PTL/SOP/CHE/02 / IS 3685: 1966, RA 2018 | |
| 54. | | Manganese | PTL/SOP/CHE/02 | |
| 55. | | Nickel | IS 3685: 1966, RA 2018 / PTL/SOP/CHE/02 | |
| 56. | | Tin | IS 3685 : 1966, RA 2018 | |
| 57. | | Zinc | IS 3685 : 1966, RA 2018 | |
| 58. | | Copper and Its Aloys (Leaded Brass Copper and Bronze) | Antimony | PTL/SOP/CHE/02 |
| 59. | | | Iron | PTL/SOP/CHE/02 |
| 60. | Sulphur | | PTL/SOP/CHE/02 | |
| 61. | Tellurium | | ITL/SOP/CHE/02 | |
| 62. | Ferrous & Non-Ferrous metals | Thickness of Anodic Coating | IS 5523: 1983 RA 2021 | |
| 63. | Steel Products | Mass of Zinc Coating | IS 6745: 1972 RA 2021 | |
| 64. | Steel Products | Uniformity of Zinc Coating | IS 2633: 1986 RA 2021 | |

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|------------------|---|---|-------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building, Infrastructure & Construction Material | | |
| 1. | Cement | Calcium Oxide | IS 4032: 1985 (RA 2019) |
| 2. | Cement | Magnesium Oxide | IS 4032: 1985 (RA 2019) |
| 3. | Cement | Sulphur as SO ₃ | IS 4032: 1985 (RA 2019) |
| 4. | Cement | Loss on Ignition | IS 4032: 1985 (RA 2019) |
| 5. | Cement | Silica as SiO ₂ | IS 4032: 1985 (RA 2019) |
| 6. | Cement | Chloride as Cl | IS 4032: 1985 (RA 2019) |
| 7. | Cement | Iron as Fe ₂ O ₃ | IS 4032: 1985 (RA 2019) |
| 8. | Cement | Aluminium as Al ₂ O ₃ | IS 4032: 1985 (RA 2019) |
| 9. | Cement | Insoluble Residue | IS 4032: 1985 (RA 2019) |
| 10. | Cement | Alkali Content | IS:4032-1985, RA 2019 |
| 11. | Concrete Admixture | Dry Material Content | IS 9103: 1999 (RA 2018) |
| 12. | Concrete Admixture | Ash Content | IS 9103: 1999 (RA 2018) |
| 13. | Concrete Admixture | Relative Density | IS 9103: 1999 (RA 2018) |
| 14. | Concrete Admixture | Chloride Content | IS 6925: 1973 (RA 2018) |
| 15. | Concrete Admixture | pH | IS 9103: 1999 (RA 2018) |
| 16. | Ceramics Tile (Glazed/ Unglazed/ Vitrified) | Resistance to Staining | IS :13630- Part 8 2019 |

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Scope of Accreditation

PAAM Testing Labs Private Limited

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Valid from: 19 March 2025

Valid until: 18 March 2027

Accreditation Standard: ISO/IEC 17025:2017

| Chemical Testing | | | |
|------------------|---|---|---|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building, Infrastructure & Construction Material | | |
| 17. | Ceramics Tile (Glazed/ Unglazed/ Vitrified) | Resistance to household chemical | IS :13630- Part 8 2019 |
| 18. | Ceramics Tile (Glazed/ Unglazed/ Vitrified) | Resistance to acid/alkali | IS :13630- Part 8 2019 |
| 19. | Hardened Concrete | Chloride | BS 1881 (P-124): 2015 / BS 812 (P-117): 1988 |
| 20. | Hardened Concrete | Potassium Oxide | BS1881 (P-124): 2015 |
| 21. | Hardened Concrete | Chloride | BS 1881 (P-124): 2015 / BS 812 (P-117): 1988 |
| 22. | Hardened Concrete | Ratio of Ingredients | ASTM C-1084: 2019 / IS 516(P-11) 2020 / IS 1199: 2018 |
| 23. | Hardened Concrete | Sodium Oxide | BS 1881 (P-124): 2015 |
| 24. | Hardened Concrete | Sulphate | BS 812 (P-118): 1988 / BS 1881 (P-124): 2015 |
| 25. | Mortar | Chloride | BS 1881 (P-124):2015 |
| 26. | Mortar | Ratio of Ingredients | IS 516(P-11) 2020 / IS 1199 : 2018 |
| 27. | Mortar | Sulphate | BS 1881 (P-124):2015 |
| 28. | Building Lime | Available lime as CaO (Dry Basis) | IS: 1514 1990 (RA 2024) |
| 29. | Building Lime | Calcium and Magnesium oxides (on ignited basis) | IS: 6932(P-1): 1973 RA 2019 |

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| Chemical Testing | | | |
|------------------|---|--|--------------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building, Infrastructure & Construction Material | | |
| 30. | Building Lime | Carbon dioxide (on Oven Dry basis) | IS: 6932(P-1): 1973 RA 2019 |
| 31. | Building Lime | Free Moisture content | IS: 1514: 1990 RA 2024 |
| 32. | Building Lime | Insoluble residue in dilute acid and alkali (on ignited basis) | IS: 6932(P-1): 1973 RA 2019 |
| 33. | Building Lime | Magnesium oxides (on ignited basis) | IS: 6932(P-1): 1973 RA 2019 |
| 34. | Building Lime | Silica, Alumina and Ferric oxide (on ignited basis) | IS: 6932(P-1): 1973 RA 2019 |
| 35. | Building Lime | Unhydrated Magnesium oxide (on ignited basis) | IS: 6932(P-1): 1973 RA 2019 |
| 36. | Aggregates (Coarse/Fine) Graded, Single, All in one, Key Stone Metal, Ballast & Boulder | Alkali Aggregate Reactivity – Dissolved Silica | IS 2386 (P-7) : 1963, RA 2021 |
| 37. | | Alkali aggregate Reactivity – Reduction in alkalinity | IS 2386 (P-7) : 1963, RA 2021 |
| 38. | Aggregates (Coarse/Fine) Graded, Single, All in one, Key Stone Metal, Ballast & Boulder | Alkali aggregate Reactivity - Nature of Aggregate | IS 2386 (P-7) : 1963, RA 2021 |
| 39. | | Water Soluble Chloride Content as Cl | IS: 14959 (P-2): 2001, RA 2021 |
| 40. | | Total Sulphate Content as SO ₃ | IS: 4032-1985, RA 2019 |
| 41. | Aggregates (Fine) | Alkali aggregate Reactivity- Reduction in alkalinity | IS 2386 (P-7) : 1963, RA 2021 |

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| Chemical Testing | | | |
|------------------|---|---|---|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building, Infrastructure & Construction Material | | |
| 42. | Crushed Stone Sand, Natural Sand, Crushed Gravel Sand, Binding & Screening Material, Mixed Sand & Manufactured Sand | Alkali aggregate Reactivity-Dissolved Silica | IS 2386 (P-7) : 1963, RA 2021 |
| 43. | | Alkali aggregate Reactivity - Nature of Aggregate | IS 2386 (P-7) : 1963, RA 2021 |
| 44. | | Water Soluble Chloride Content as Cl | IS: 14959 (P-2): 2001, RA 2021 |
| 45. | | Total Sulphate Content as SO ₃ | IS: 4032-1985, RA 2019 |
| 46. | Bentonite | pH | IS 6186 : 1986 RA 2024 |
| 47. | Fly Ash | Silica | IS 1727 : 1967, RA 2018 |
| 48. | Fly Ash | Alumina | IS 1727 : 1967, RA 2018 |
| 49. | Fly Ash | Available Alkalies as Na ₂ O | IS:4032-1985, RA 2019 & IS:3812 (P-1)-2013, RA 2022 |
| 50. | Fly Ash | Calcium Oxide | IS 1727: 1967, RA 2018 |
| 51. | Fly Ash | Iron Oxide | IS 1727: 1967, RA 2018 |
| 52. | Fly Ash | Loss on Ignition | IS 1727: 1967, RA 2018 |
| 53. | Fly Ash | Magnesium Oxide | IS 1727: 1967, RA 2018 |
| 54. | Fly Ash | Moisture | IS 3812 (P-1) : 2013, RA 2022 |
| 55. | Fly Ash | Total Chlorides | IS 4032: 1985, RA2019 |
| 56. | Fly Ash | Total Sulphur | IS 1727: 1967, RA 2018 |

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Accreditation Standard: ISO/IEC 17025:2017

| Chemical Testing | | | |
|------------------|---|------------------------------------|------------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building, Infrastructure & Construction Material | | |
| 57. | Silica Fume / Micro Silica | Loss on Ignition | IS 1727 : 1967, RA 2018 |
| 58. | Silica Fume / Micro Silica | Moisture | IS 15388 : 2003, RA 2022 |
| 59. | Silica Fume / Micro Silica | Silica (SiO ₂ %/Mass) | IS 1727 : 1967, RA 2018 |
| 60. | Silica Fume / Micro Silica | Total Alkalies (Na ₂ O) | IS 4032 : 1985, RA 2019 |
| 61. | Plaster of Paris or Gypsum Building Plaster | Calcium Oxide | IS 1288 : 1982, RA 2021 |
| 62. | Plaster of Paris or Gypsum Building Plaster | Loss On Ignition | IS 2547 (P-1) : 1976 RA 2022 |
| 63. | Plaster of Paris or Gypsum Building Plaster | Soluble Magnesium salt as MgO | IS 2547 (P-1) : 1976 RA 2022 |
| 64. | Plaster of Paris or Gypsum Building Plaster | Sulphur Trioxide | IS 2547 (P-1) : 1976 RA 2022 |
| 65. | Curing Compound | Water Retention properties | ASTM C 156 |
| 66. | Curing Compound | Drying time Requirements | ASTM C 309 |
| 67. | Curing Compound | Volatile Organic Content | ASTM D 3960 |
| 68. | Curing Compound | Reflectance | ASTM E 1347 |
| 69. | Curing Compound | Relative Density at 30°C | ASTM D 1475 |
| 70. | Curing Compound | Non-Volatile Matter | ASTM D2369 |

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Accreditation Standard: ISO/IEC 17025:2017

| Mechanical Testing | | | |
|--------------------|---|--|--|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Plastic Products | | |
| 1. | Structured wall Plastics Piping systems for non-pressure drainage and sewerage (DWC Pipe) | Visual Appearance, finish and colour | IS:16098 (Part-2) 2013 RA 2022 |
| 2. | Structured wall Plastics Piping systems for non-pressure drainage and sewerage (DWC Pipe) | Physical characteristics of PE/PP pipes (Resistance to heating, oven test) | IS:12235 (Part-6) 2004 RA 2019 |
| 3. | Structured wall Plastics Piping systems for non-pressure drainage and sewerage (DWC Pipe) | Physical characteristics of PE/PP injection moulded components (Effect of heating) | IS 16098 (Part-1) : 2013 RA 2022 IS:12235 (Part-6) 2004 RA 2019 |
| 4. | Structured wall Plastics Piping systems for non-pressure drainage and sewerage (DWC Pipe) | Ring stiffness | IS 16098 (Part-1) : 2013 RA 2022 |
| 5. | Structured wall Plastics Piping systems for non-pressure drainage and sewerage (DWC Pipe) | Impact strength | IS:12235 (Part-9) 2004 RA 2019 |

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| Mechanical Testing | | | |
|--------------------|---|--|--|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Plastic Products | | |
| 6. | Structured wall Plastics Piping systems for non-pressure drainage and sewerage (DWC Pipe) | Ring flexibility | IS:16098 (Part-1):2013 RA 2022 |
| 7. | Structured wall Plastics Piping systems for non-pressure drainage and sewerage (DWC Pipe) | Performance requirements (Tightness of elastomeric seal joint) | IS:12235 (Part-8/Sec-2 & Sec-3) 2004 RA 2019 |
| 8. | Structured wall Plastics Piping systems for non-pressure drainage and sewerage (DWC Pipe) | Water tightness | IS:16098 (P-2): 2013 RA 2022 |
| 9. | Rotational Moulded Polyethylene Water Storage Tanks | Dimension Of Tank- Internal Dia of Manhole | IS 12701: 1996 RA 2021 |
| 10. | Rotational Moulded Polyethylene Water Storage Tanks | Dimension of tank- wall and bottom thickness | IS 12701: 1996 RA 2021 |
| 11. | Rotational moulded polyethylene water storage tanks | Dimension of tank- weight of tank | IS 12701: 1996 RA 2021 |

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| Mechanical Testing | | | |
|--------------------|---|------------------------------|--------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Plastic Products | | |
| 12. | Rotational moulded polyethylene water storage tanks | Finish | IS 12701: 1996 RA 2021 |
| 13. | Rotational moulded polyethylene water storage tanks | Flexural modulus | IS 13360 P-5/SEC 7: 2022 |
| 14. | Rotational moulded polyethylene water storage tanks | Resistance to deformation | IS 12701: 1996 RA 2021 |
| 15. | Rotational moulded polyethylene water storage tanks | Resistance to impact | IS 12701: 1996 RA 2021 |
| 16. | Rotational moulded polyethylene water storage tanks | Tensile strength | IS 12701: 1996 RA 2021 |
| 17. | Rotational moulded polyethylene water storage tanks | Test for top load resistance | IS 12701: 1996 RA 2022 |
| 18. | HDPE pipe | Identification of strips | IS:4984: 2016 RA 2021 |

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Accreditation Standard: ISO/IEC 17025:2017

| Mechanical Testing | | | |
|--------------------|------------------------------|--|--|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Plastic Products | | |
| 19. | HDPE pipe | Elongation at Break | IS 14333: 2022 IS 4984: 2016 RA 2021 IS: 17425: 2020 IS:12786: 2024 IS:14885: 2022 IS:14151(P-1):1999 RA 2021 IS:14151(P-2):2008 RA 2021 |
| 20. | HDPE PIPE | Internal Pressure Creep Rupture Test of Pipe Joints | IS:4984: 2016 RA 2021 IS 14333: 2022 |
| 21. | HDPE PIPE | Length | IS 14333: 2022 IS 4984: 2016 RA 2021 IS: 17425: 2020 IS:12786: 2024 IS:14885: 2022 IS:14151(P-1):1999 RA 2021 |
| 22. | HDPE Pipe | Reversion Test | IS 14333: 2022 IS 4984: 2016 RA 2021 IS: 17425: 2020 IS:12786: 2024 IS:14885: 2022 IS:14151(P-1):1999 RA 2021 IS:14151(P-2):2008 RA 2021 |
| 23. | HDPE PIPE | Slow Crack Growth rate | IS:4984: 2016 RA 2021 |
| 24. | HDPE PIPE | Tensile Strength for Butt-fusion | IS:4984: 2016 RA 2021 |

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Accreditation Standard: ISO/IEC 17025:2017

| Mechanical Testing | | | |
|--------------------|------------------------------|---------------------------|--|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Plastic Products | | |
| 25. | HDPE Pipe | Visual Appearance/ Colour | IS 14333: 2022 IS 4984: 2016 RA 2021 IS: 14885 : 2022 |
| 26. | HDPE Pipe | Wall Thickness | IS 14333: 2022 IS 4984: 2016 RA 2021 IS: 17425: 2020 IS:12786: 2024 IS:14885: 2022 IS:14151(P-1):1999 RA 2021 IS:14151(P-2):2008 RA 2021 |
| 27. | HDPE Pipe & Fittings | Density | IS 7328: 2020 |
| 28. | HDPE Pipe & Fittings | Melt flow rate | IS: 2530:1963 RA 2018 |
| 29. | HDPE Pipe & Fittings | Dimensions-Diameter | IS 14333: 2022; IS 4984: 2016 RA 2021; IS: 17425: 2020; IS:12786: 2024; IS:14885: 2022; IS:14151(P-1):1999 RA 2021; IS:14151(P-2):2008 RA 2021 |
| 30. | HDPE Pipe & Fittings | Overall Migration | IS 9845: 1998 RA 2020 IS: 10146:1982 RA 2018 |
| 31. | HDPE Pipe & Fittings | Overall Migration | IS 9845: 1998 RA 2020 IS: 10146:1982 RA 2018 |

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| Mechanical Testing | | | |
|--------------------|---|--|--|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Plastic Products | | |
| 32. | HDPE Pipe & Fittings, QCPE Pipe | Tensile Strength | IS 4984: 2016 RA 2021 IS:12786: 2024 IS:14885: 2022 IS: 17425: 2020 |
| 33. | Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems | Fusion Compatibility Test (Quality test and Acceptance test) | IS: 17425: 2020 |
| 34. | Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems | Holding attachment of coupler part | IS: 17425: 2020 |
| 35. | Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems | Hydraulic Performance Characteristics (Quality Test and Acceptance test) | IS: 17425: 2020 |
| 36. | Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems | Hydraulic Proof Test | IS: 17425: 2020 |
| 37. | Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems | Leakage test | IS: 17425: 2020 |

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| Mechanical Testing | | | |
|--------------------|---|---|------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Plastic Products | | |
| 38. | Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems | Out of Roundness (Ovality) | IS: 17425: 2020 |
| 39. | Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems | Rubber Ring | IS 17425: 2020 |
| 40. | Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems | Visual Appearance and colour and Workmanship | IS: 17425: 2020 |
| 41. | Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems | Weldability Test (Quality Test and Acceptance Test) | IS: 17425: 2020 |
| 42. | Holding attachments | Thickness of the zinc electroplating | IS:1573-1986 RA 2021 |
| 43. | PE Pipe | Finish | IS 14885: 2022 |
| 44. | PE Pipe | Hydraulic Characteristics | IS 14885: 2022 |
| 45. | PE Pipe | Resistance To Weathering | IS 14885: 2022 |
| 46. | PE Pipes for Water Supply | Out of square of pipe end | IS: 4984: 2016 RA 2021 |
| 47. | PE Pipes for Water Supply | Yield Stress | IS: 4984: 2016 RA 2021 |

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| Mechanical Testing | | | |
|--------------------|---|--|--|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Plastic Products | | |
| 48. | Irrigation Equipment Emitting Pipe systems | Dimensions | IS: 13488:2008 RA 2021 |
| 49. | Irrigation Equipment Emitting Pipe systems | Resistance to Hydrostatic pressure at Ambient temperature | IS: 13488:2008 RA 2021 |
| 50. | Irrigation Equipment Emitting Pipe systems | Resistance to Hydrostatic pressure at Elevated temperature | IS: 13488:2008 RA 2021 |
| 51. | UPVC Door/ Frame/Profile/ Sheet | Density at 27°C | ASTM D792 / IS: 17953-2023 |
| 52. | UPVC Door/ Frame/Profile/ Sheet | Tensile Modulus (Modulus of Elasticity) | ASTM D638 / EN ISO 178 / IS: 13360 (P-5/S-7) 2022 |
| 53. | UPVC Door/ Frame/Profile/ Sheet | Impact Strength (Charpy Unnotched) | ASTM D256 / EN ISO 179-2 / IS: 13360 (P-5/S-5) 2017 RA 2022 |
| 54. | UPVC Door/ Frame/Profile/ Sheet | Durometer Hardness | DIN 53505 |
| 55. | UPVC Door/ Frame/Profile/ Sheet | Vicat Softening Point | ASTM D1525 / EN ISO 306 / IS: 13360 (P-6/S-1) 2018 |
| 56. | UPVC Door /Frame/Profile/ Sheet/Plastic Material | Flammability | UL94 |
| 57. | UPVC Door/ Frame/Profile/ Sheet | Calcium carbonate | IS: 14735-1999 RA 2019 |
| 58. | UPVC Door/ Frame/Profile/ Sheet | Dimensions and tolerances | IS: 17953:2023 |

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| Mechanical Testing | | | |
|--------------------|-------------------------------------|--|--|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Plastic Products | | |
| 59. | UPVC Door/ Frame/Profile/ Sheet | Appearance | IS: 17953:2023 |
| 60. | UPVC Door/ Frame/Profile/ Sheet | Mass of profile | IS: 17953:2023 |
| 61. | UPVC Door/Frame/Profile/ Sheet | Resistance to impact of falling mass | IS: 17953:2023 (Annex-D) |
| 62. | UPVC Door/Frame/Profile/ Sheet | Heat ageing at 150°C | IS: 17953:2023 (Annex-E) |
| 63. | UPVC Door/Frame/Profile/ Sheet | Heat reversion | IS: 17953:2023 (Annex-C) |
| 64. | UPVC Pipe | Dimension of Socket - Socket Length | IS:4985: 2021 |
| 65. | UPVC Pipe | Dimension of Socket Internal diameter | IS:4985: 2021 |
| 66. | UPVC & CPVC & PPR Pipe | Length | IS:4985: 2021; IS:12818: 2010 RA 2021; IS: 13592:2013 RA 2018 IS: 15328:2003 RA 2018 IS: 15778:2007 RA 2022 IS: 15801: 2008 RA 2022 IS: 16647:2017 RA 2022 |
| 67. | UPVC Pipe & PVC-O Pipe | Resistance to external Blow at 0 Degree C | IS 12235 (Part 9): 2004 RA 2019 |
| 68. | UPVC Pipe | Resistance to External Blows | IS 15328: 2003 RA 2018 |
| 69. | UPVC Pipe | Resistance to Internal Hydrostatic Pressure Test | IS 12235 (Part 8/Sec-1): 2004 RA 2019 |

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| Mechanical Testing | | | |
|--------------------|--|-------------------------------------|--|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Plastic Products | | |
| 70. | UPVC Pipe | Ring Stiffness | IS 15328: 2003 RA 2018 |
| 71. | UPVC Pipe | Stress Relief Test | IS 12235 (Part 6): 2004 RA 2019 |
| 72. | UPVC Screen and casing Pipe | Colour | IS 12818: 2010 RA 2021 |
| 73. | UPVC Screen and casing Pipe | Internal Diameter | IS 12818: 2010 RA 2021 |
| 74. | UPVC Screen and casing Pipe | Resistance to External Blows | IS 12818: 2010 RA 2021 |
| 75. | UPVC Screen and casing Pipe | Threading of Screen and Casing Pipe | IS 12818: 2010 RA 2021 |
| 76. | UPVC Screen and Casing Pipe | visual appearance | IS 12818: 2010 RA 2021 |
| 77. | Injection Moulded PVC Socket Fittings with Solvent Cement Joints | Short Term Hydraulic Pressure test | IS:7834 (P-1): 1987 RA 2018 |
| 78. | PPR Pipe | Melt Flow Rate | IS: 13360 (P- 4/ S-1/Subsec-1): 2000 RA 2018 |
| 79. | Resin, Plastic & polymer, Raw Material, Plastic Pipes, CPVC & UPVC Pipes | Appearance | IS: 15225: 2002 RA 2024 |
| 80. | Resin, Plastic & polymer, Raw Material, Plastic Pipes, CPVC & UPVC Pipes | Charpy Impact Strength | IS: 13360 (Part-5 / Sec-5): 2017 RA 2022 |
| 81. | Resin, Plastic & polymer, Raw Material, Plastic Pipes, CPVC & UPVC Pipes | Form | IS: 15225: 2002 RA 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 |
| | Plastic and Plastic Products | | |
| 82. | Resin, Plastic & polymer, Raw Material, Plastic Pipes, CPVC & UPVC & PVC -O Pipes | Vicat Softening Temperature | IS: 13360 (Part-6 / Sec-1): 2018 IS:12235 (Part-2):2004 RA 2019 |
| 83. | UPVC Pipe | Dimension of Socket - Outside Diameter | IS:13592: 2013 RA 2018 |
| 84. | UPVC Pipe | Colour of Pipe | IS:13592: 2013 RA 2018 |
| 85. | UPVC Pipe | Dimension of Socket - Wall Thickness | IS:13592: 2013 RA 2018 |
| 86. | UPVC Pipe | Hydrostatic Characteristic -Type Test & Acceptance Test) | IS:4985: 2021 |
| 87. | UPVC Pipe | Resistance To external Blows at 0°C | IS:4985: 2021 |
| 88. | UPVC Pipe | Visual appearance | IS:13592: 2013 RA 2018 |
| 89. | UPVC/CPVC Pipes & Fittings | Flattening Test | ASTM D1758 / IS 15778: 2007 RA 2022 |
| 90. | CPVC Fittings for Potable Hot and Cold-Water Distribution Supplies | Socket Length | IS: 17546: 2021 |
| 91. | CPVC Pipe & Fittings for Potable Hot and Cold-Water Distribution Supplies | Thermal Stability by Hydrostatic Pressure Test | IS: 12235 (Part-8/Sec-1): 2004 RA 2019 |
| 92. | UPVC/ CPVC Pipe & Fittings | Reversion Test | IS 12235 (Part 5/6): 2004 RA 2019 |
| 93. | UPVC/ CPVC Pipe & Fittings | Sustained Pressure Test / Burst Test | ASTM D1785 / 1983 ASTM D1598 / ASTM D1599 |

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| Mechanical Testing | | | |
|--------------------|--------------------------------------|--|----------------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Plastic Products | | |
| 94. | CPVC Pipe & Fittings/ PPR Pipe | Specific Gravity | IS 12235 (Part 14): 2004 RA 2019 |
| 95. | UPVC & UPVC-O & CPVC Pipe & Fittings | Tensile Strength | IS 12235 (Part 13): 2004 RA 2019 |
| 96. | CPVC Pipe & Fittings | Visual Appearance /Colour | IS 15778: 2007 RA 2022 |
| 97. | PPR Pipe | Density | IS 12235 (Part 14): 2004 RA 2019 |
| 98. | PPR Pipe | Dimensions-Outside Diameter | IS 12235 (Part 1): 2004 RA 2019 |
| 99. | PPR Pipe | Visual Appearance/ Colour | IS 15801: 2008 RA 2022 |
| 100. | PPR Pipe | Wall Thickness | IS 12335 (Part 1): 2004 RA 2019 |
| 101. | UPVC Injection Moulded Fittings | Champher | IS 14735: 1999 RA 2019 |
| 102. | | Colour | IS 14735: 1999 RA 2019 |
| 103. | | Dimension- mean diameter (inside & outside) of socket at mid point | IS 14735: 1999 RA 2019 |
| 104. | | Dimensions- wall thickness | IS 14735: 1999 RA 2019 |
| 105. | | Impact test (drop test) | IS 14735: 1999 RA 2019 |
| 106. | | Stress Relief Test | IS 12235 (Part 6): 2004 RA 2019 |
| 107. | | Vicat Softening | IS 6307: 2023 |
| 108. | | Visual Appearance | IS 14735: 1999 RA 2019 |
| 109. | | Water tightness of joint | IS 14735: 1999 RA 2019 |

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|--------------------|---|--|---|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Plastic Products | | |
| 110. | UPVC Pipe | Appearance | IS 15328: 2003 RA 2018 |
| 111. | | Axial shrinkage | IS 15328: 2003 RA 2018 |
| 112. | | Colour | IS 15328: 2003 RA 2018 |
| 113. | UPVC Pipe | Elastomeric Sealing ring/Solvent Cemented Joint Internal Hydrostatic Pressure Test | IS 15328: 2003 RA 2018 |
| 114. | UPVC Pipe | Elastomeric sealing Ring/Solvent Cemented Joints Internal negative hydrostatic pressure Test | IS 15328: 2003 RA 2018 |
| 115. | UPVC Pipe | Elastomeric Sealing Rings Dimension Wall Thickness | IS 15328: 2003 RA 2018 |
| 116. | UPVC Pipe | Resistance To External Blows at 0 Deg. C | IS 12235 (Part 9): 2004 RA 2019 |
| 117. | UPVC Pipe | Resistance to external blows at 0 degree | IS 15328: 2003 RA 2018 |
| 118. | UPVC Pipe & PVC-O Pipe | Ring stiffness | IS 15328: 2003 RA 2018 IS:12235 (Part-18):2004 RA 2019 |
| 119. | UPVC Pipe | Water Tightness of Joint | IS:13592: 2013 RA 2018 |
| 120. | UPVC Pipe & Fittings | Density | IS 12335 (Part 14): 2004 RA 2019 |
| 121. | UPVC Pipe & Fittings / CPVC Pipe & Fittings | Dimensions- Diameter | IS 12235 (Part 1): 2004 RA 2019 |

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| Mechanical Testing | | | |
|--------------------|---|------------------------------------|---|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Plastic Products | | |
| 122. | UPVC Pipe & Fittings | Elongation % | IS 12235 (Part 13): 2004 RA 2019 |
| 123. | UPVC Pipe & Fittings | Specific Gravity | IS 12335 (Part 14): 2004 RA 2019 |
| 124. | UPVC Pipe & Fittings | Visual Appearance/ Colour | IS 4985: 2021 |
| 125. | UPVC Pipe & Fittings / CPVC Pipe & Fittings | Wall Thickness | IS 12235 (Part 1): 2004 |
| 126. | UPVC Pipes for Water Supplies | Pipe Ends | IS: 4985: 2021 |
| 127. | Oriented Unplasticized Polyvinyl (PVC-O) Pipes for water Supply | Visual Appearance/ Colour | IS: 16647:2017 RA 2022 |
| 128. | Oriented Unplasticized Polyvinyl (PVC-O) Pipes for water Supply | Dimensions of pipe | IS: 16647:2017 RA 2022 |
| 129. | Oriented Unplasticized Polyvinyl (PVC-O) Pipes for water Supply | Pipe Ends | IS: 16647:2017 RA 2022 |
| 130. | Oriented Unplasticized Polyvinyl (PVC-O) Pipes for water Supply | Resistance to hydrostatic pressure | IS 16462: 2016 RA 2021 ISO 9080 2016 |
| 131. | PVC Water Stopper | Accelerated Extraction Test | IS 15058: 2002 RA 2019 |
| 132. | PVC Water Stopper | Cold Bend Temperature | IS 9766: 1992 RA 2018 |

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| Mechanical Testing | | | |
|--------------------|---|--|--|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Plastic Products | | |
| 133. | PVC Water Stopper & PE Film and sheet | Elongation | IS 13360 (P-5/Sec. 1): 2021 IS 13360 (P-5/Sec. 2): 2017 RA 2022 IS 13360 (P-5/Sec. 3):2022 |
| 134. | PVC Water Stopper | Hardness | IS 13360 (P -5/ Sec. 11): 2013 RA 2018 |
| 135. | PVC Water Stopper | Stability in Effect of Alkalise Test-Change in Dimension | IS:15058: 2002 RA 2019 |
| 136. | PVC Water Stopper | Stability in Effect of Alkalise Test-Weight Increase/ Decrease after 7/28 days | IS:15058: 2002 RA 2019 |
| 137. | PVC Water Stopper | Water Absorption | IS:15058: 2002 RA 2019 |
| 138. | PVC Water Stopper & PE Film and sheet | Tensile Strength | IS 13360 (P-5/Sec. 1): 2021 IS 13360 (P-5/Sec. 2): 2017 RA 2022 IS 13360 (P-5/Sec. 3):2022 |
| 139. | Aluminium Composite panel & PE Film and sheet | Density of core & Density | IS 13360 (Part-3/Sec-10): 2021 IS 13360 (Part-3/Sec-11): 2021 IS 13360 (Part-3 / Sec-12): 2016 RA 2021 |
| 140. | Aluminium Composite panel | Tensile strength & Yield strength | IS:1608 (Part-1) 2022 |
| 141. | Aluminium Composite panel | Elongation | IS:1608 (Part-1): 2022 |
| 142. | Aluminium Composite panel | Coating thickness | IS: 6012:1992 RA 2021 |
| 143. | Aluminium Composite panel | Adhesion | IS:101 (Part-5/Sec-2) 1988 RA 2019 |

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|--------------------|-------------------------------------|---|---|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Plastic Products | | |
| 144. | Aluminium Composite panel | Pencil Hardness | IS:101 (Part-5/Sec-1) 1988 RA 2019 |
| 145. | Aluminium Composite panel | Gloss | By Glossmeter |
| 146. | Conduit system for cable Management | Dimensions | IS:16205 (Part-24):2017 |
| 147. | Conduit system for cable Management | Compression test | IS:16205 (Part-24):2017 |
| 148. | Conduit system for cable Management | Impact test | IS:16205 (Part-24):2017 |
| 149. | Conduit system for cable Management | Bending test | IS:16205 (Part-24):2017 |
| 150. | PVC Geomembranes for Lining | Length and width | IS: 15909:2020 |
| 151. | PVC Geomembranes for Lining | Thickness | IS: 15909:2020 IS 3464: 1986 RA 2022 |
| 152. | PVC Geomembranes for Lining | Specific gravity | IS 2076: 1981 RA 2018 |
| 153. | PVC Geomembranes for Lining | Tensile strength (Longitudinal and transverse) | IS 2076: 1981 RA 2018 |
| 154. | PVC Geomembranes for Lining | Elongation at break (Longitudinal and transverse) | IS 2076: 1981 RA 2018 |
| 155. | PVC / HDPE Geomembranes for Lining | Tear strength | IS: 15909:2020 IS: 16352:2020 |
| 156. | PVC Geomembranes for Lining | Index puncture resistance | IS: 15909:2020 |

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|--------------------|---|---|--|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Plastic Products | | |
| 157. | PVC / HDPE Geomembranes for Lining | Low temperature crack resistance & Cold crack resistance at low temperature | IS: 15909:2020 IS: 16352:2020 |
| 158. | PVC / HDPE Geomembranes for Lining | Hydrostatic resistance & Hydrostatic pressure resistance | IS: 15909:2020 IS: 16352:2020 |
| 159. | PVC / HDPE Geomembranes for Lining | Seam strength | IS: 15909:2020 IS: 16352:2020 |
| 160. | PVC Geomembranes for Lining | Volatile loss | IS 3464: 1986 RA 2022 |
| 161. | PVC Geomembranes for Lining | Water extraction | IS: 15909:2020 |
| 162. | PVC Geomembranes for Lining | Behaviour during perforation (Static puncture test) | IS:16078 2013 RA 2023 |
| 163. | PVC Geomembranes for Lining | Dimensional stability | IS: 15909:2020 |
| 164. | PVC Geomembranes for Lining | Change of dimensioning after heating | IS: 15909:2020 |
| 165. | High density Polyethylene Geomembranes for lining | Length and width | IS: 16352:2020 IS:7016 (Part-1/Sec-1): 2022 |
| 166. | High density Polyethylene Geomembranes for lining | Average thickness at a pressure | IS: 16352:2020 IS:13162 (Part-3): 2021 |
| 167. | High density Polyethylene Geomembranes for lining | Tensile properties, Yield strength, Breaking strength | IS: 16352:2020 |
| 168. | High density Polyethylene Geomembranes for lining | Tensile properties, Yield elongation, Breaking elongation | IS: 16352:2020 |

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| Mechanical Testing | | | |
|--------------------|---|--------------------------------|--|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Plastic Products | | |
| 169. | High density Polyethylene Geomembranes for lining & PE films and sheets | Puncture resistance | IS: 16352:2020 IS: 2508:2024 |
| 170. | High density Polyethylene Geomembranes for lining | Oven Ageing | IS:7016 (P-8): 2023 ISO 11357-6 ASTM D 5885 : 1977 |
| 171. | First – Aid Hose-Reel for Fire Fighting | Dimensions | IS: 884:1985 RA 2020 |
| 172. | First – Aid Hose-Reel for Fire Fighting | Resistance to Leakage | IS: 884:1985 RA 2020 |
| 173. | First – Aid Hose-Reel for Fire Fighting | Impact Resistance Test | IS: 884:1985 RA 2020 |
| 174. | First – Aid Hose-Reel for Fire Fighting | Load Test | IS: 884:1985 RA 2020 |
| 175. | First – Aid Hose-Reel for Fire Fighting | Range and Water Flow Rate Test | IS: 884:1985 RA 2020 |
| 176. | First – Aid Hose-Reel for Fire Fighting | Marking | IS: 884:1985 RA 2020 |
| 177. | Controlled Percolating Hose for Fire Fighting | Diameter | IS 8423:1994 RA 2020 |
| 178. | Controlled Percolating Hose for Fire Fighting | Length | IS 8423:1994 RA 2020 |
| 179. | Controlled Percolating Hose for Fire Fighting | Coil Diameter | IS 8423:1994 RA 2020 |

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| Mechanical Testing | | | |
|--------------------|--|------------------------------------|----------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Plastic Products | | |
| 180. | Controlled Percolating Hose for Fire Fighting | Mass/meter | IS 8423:1994 RA 2020 |
| 181. | Controlled Percolating Hose for Fire Fighting | Percolation | IS 8423:1994 RA 2020 |
| 182. | Controlled Percolating Hose for Fire Fighting | Evenness of Wetting out | IS 8423:1994 RA 2020 |
| 183. | Controlled Percolating Hose for Fire Fighting | Hydrostatic Proof Pressure Test | IS 443 (P-3):2023 |
| 184. | Controlled Percolating Hose for Fire Fighting | Hydrostatic Bursting pressure Test | IS 443 (P-3):2023 |
| 185. | Controlled Percolating Hose for Fire Fighting | Flammability | IS 8423:1994 RA 2020 |
| 186. | Controlled Percolating Hose for Fire Fighting | Kink Test | IS 8423:1994 RA 2020 |
| 187. | Controlled Percolating Hose for Fire Fighting | Change in Size | IS 8423:1994 RA 2020 |
| 188. | Controlled Percolating Hose for Fire Fighting | Marking | IS 8423:1994 RA 2020 |
| 189. | Non-Percolating Flexible Fire Fighting Delivery Hose | Workmanship | IS 636: 2018 RA 2024 |
| 190. | Non-Percolating Flexible Fire Fighting Delivery Hose | Internal diameter | IS 636: 2018 RA 2024 |
| 191. | Non-Percolating Flexible Fire Fighting Delivery Hose | Length | IS 636: 2018 RA 2024 |

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| Mechanical Testing | | | |
|--------------------|--|------------------------------------|----------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Plastic Products | | |
| 192. | Non-Percolating Flexible Fire Fighting Delivery Hose | Mass | IS 636: 2018 RA 2024 |
| 193. | Non-Percolating Flexible Fire Fighting Delivery Hose | Coil Diameter | IS 636: 2018 RA 2024 |
| 194. | Non-Percolating Flexible Fire Fighting Delivery Hose | Hydrostatic Proof Pressure | IS 443 (P-3):2023 |
| 195. | Non-Percolating Flexible Fire Fighting Delivery Hose | Hydrostatic Burst Pressure | IS 443 (P-3): 2023 |
| 196. | Non-Percolating Flexible Fire Fighting Delivery Hose | Kink Test | IS 636: 2018 RA 2024 |
| 197. | Non-Percolating Flexible Fire Fighting Delivery Hose | Change in Length | IS 636: 2018 RA 2024 |
| 198. | Non-Percolating Flexible Fire Fighting Delivery Hose | Change in diameter | IS 636: 2018 RA 2024 |
| 199. | Non-Percolating Flexible Fire Fighting Delivery Hose | Adhesion | IS 636: 2018 RA 2024 |
| 200. | Non-Percolating Flexible Fire Fighting Delivery Hose | Accelerated Ageing | IS 636: 2018 RA 2024 |
| 201. | Non-Percolating Flexible Fire Fighting Delivery Hose | Abrasion Resistance | IS 636: 2018 RA 2024 |
| 202. | Non-Percolating Flexible Fire Fighting Delivery Hose | Water pickup / Moisture absorption | IS 636: 2018 RA 2024 |
| 203. | Non-Percolating Flexible Fire Fighting Delivery Hose | Heat Resistance | IS 636: 2018 RA 2024 |

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|--------------------|--|--------------------------|----------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Plastic Products | | |
| 204. | Non-Percolating Flexible Fire Fighting Delivery Hose | Oil Resistance | IS 636: 2018 RA 2024 |
| 205. | Non-Percolating Flexible Fire Fighting Delivery Hose | Hot Surface Resistance | IS 636: 2018 RA 2024 |
| 206. | Non-Percolating Flexible Fire Fighting Delivery Hose | Pressure Loss | IS 636: 2018 RA 2024 |
| 207. | Non-Percolating Flexible Fire Fighting Delivery Hose | Marking | IS 636: 2018 RA 2024 |
| 208. | Unlined Flax Canvas Hose for Fire Fighting | Size | IS 4927:1992 RA 2017 |
| 209. | Unlined Flax Canvas Hose for Fire Fighting | Internal Diameter | IS 4927:1992 RA 2017 |
| 210. | Unlined Flax Canvas Hose for Fire Fighting | Lengths | IS 4927:1992 RA 2017 |
| 211. | Unlined Flax Canvas Hose for Fire Fighting | Mass / meter | IS 4927:1992 RA 2017 |
| 212. | Unlined Flax Canvas Hose for Fire Fighting | Coil Diameter | IS 4927:1992 RA 2017 |
| 213. | Unlined Flax Canvas Hose for Fire Fighting | Percolation | IS 4927:1992 RA 2017 |
| 214. | Unlined Flax Canvas Hose for Fire Fighting | Change in Length | IS 4927:1992 RA 2017 |

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|--------------------|--|---|--|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Plastic Products | | |
| 215. | Unlined Flax Canvas Hose for Fire Fighting | Change in Diameter | IS 4927:1992 RA 2017 |
| 216. | Unlined Flax Canvas Hose for Fire Fighting | Hydrostatic Proof Pressure Test | IS 443 (P-3):2023 |
| 217. | Unlined Flax Canvas Hose for Fire Fighting | Hydrostatic Bursting pressure Test | ISO 1402 : 2024 |
| 218. | Unlined Flax Canvas Hose for Fire Fighting | Marking | IS 4927:1992 RA 2017 |
| 219. | Polyethylene Films and sheets | Thickness | IS 2508:2024 |
| 220. | Polyethylene Films and sheets | Ageing test | IS 7016 (Part-8) :2023 IS 13360 (Part-5/Sec-1):2021 IS 13360 (Part-5/Sec-3):2022 |
| 221. | Polyethylene Films and sheets | Dart Impact strength | IS:13360 (Part-5/sec-6) 1999 RA 2020 |
| 222. | Polyethylene Films and sheets | Tear resistance | IS:13360 (Part-5/Sec-23) 1996 RA 2018; IS: 2508:2024 |
| 223. | Polyethylene Films and sheets | Dimensions | IS: 10889:2004 RA 2016 |
| 224. | Polyethylene Films and sheets | Yield tolerances | IS: 10889:2004 RA 2016 |
| 225. | Polyurethane foam (PUF)/ Poly Iso-Cynaurate (PIR)/ Thermal Insulation Material | Dimensional stability | IS 11239 (P-3) 2009 RA 2024 ASTM D2126 |
| 226. | Flexible and rigid foams | Loss in indentation thickness after Humidity ageing | IS 7888:1976 RA 2019 |

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|--------------------|------------------------------|--------------------------------|--|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Plastic and Plastic Products | | |
| 227. | Flexible and rigid foams | Humidity Ageing | IS 7888:1976 RA 2019 |
| 228. | | Compression set | IS 7888:1976 RA 2019 |
| 229. | | Density | IS 7888:1976 RA 2019 |
| 230. | | Elongation at break | IS 7888:1976 RA 2019 |
| 231. | | Heat Ageing- change in Tensile | IS 7888:1976 RA 2019 |
| 232. | | Tensile strength | IS 7888:1976 RA 2019 ASTM D1623 |
| 233. | | Water absorption | IS 11239 (P-9) 1988 RA 2019 ASTM C272 ASTM D2842 |
| 234. | | Tear strength | ISO 8067 2023 |



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|--------------------|--|--|---|-----------------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method | |
| | Rubber & Rubber Products | | | |
| 1. | Rubber hoses, Textiles Reinforced for general purpose water & welding & Air hose | Classifications/ Constructions/ Types | IS: 444:2017 RA 2018 IS: 447:1988 RA 2018 | |
| 2. | | Material and Construction | IS: 444:2017 RA 2018 IS: 447:1988 RA 2018 | |
| 3. | | Dimensions Internal diameters and tolerances | IS: 444:2017 RA 2018 ISO 4671: 2018 IS: 12585: 2023 IS: 443 (P-8):2023 | |
| 4. | | Minimum thickness of lining and cover | IS: 444:2017 ISO 4671: 2018 IS: 12585:2023 | |
| 5. | | Minimum tensile strength | ISO 37; ISO 527-2; IS:443 (P-7):2022 | |
| 6. | | Minimum elongation at break | ISO 37; ISO 527-2; IS:443 (P-7):2022 | |
| 7. | | Resistance to Ageing | ISO 188:2011; ISO 527-2; ISO 37 | |
| 8. | | Change in length at proof pressure | ISO 1402: 2024 | |
| 9. | | Rubber hoses, Textiles Reinforced for general purpose water & welding & Air hose & Rubber and Rubber Allied products | Adhesion between components | ISO 8033 IS:3400 (Part-5):2022 |
| 10. | | Rubber hoses, Textiles Reinforced for general | Flexibility | ISO 1746; ISO 10619-1 |
| 11. | | | Low temperature flexibility | ISO 4672:1997; ISO 10619-2 |

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| Mechanical Testing | | | |
|--------------------|--|---|--|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Rubber & Rubber Products | | |
| 12. | purpose water & welding & Air hose | Marking | IS: 447:1988; IS:444: 2017 IS: 446:2017 |
| 13. | | Accelerated ageing lining and cover | IS 443: 2023 |
| 14. | | Hydrostatic test pressure of one minute | IS 443 (P-3):2023 |
| 15. | Rubber hoses, Air hose | Oil absorption test | IS 446:2017 RA 2018 |
| 16. | Automotive Vehicles- Tubes for Pneumatic tyres | Materials, form and fit | IS:13098-2024 |
| 17. | | Thickness uniformity | IS:13098-2024 |
| 18. | | Elongation | IS:3400 (Part-1) 2021 |
| 19. | | Strength of splice (Tensile strength) | IS:3400 (Part-1) 2021 |
| 20. | | Set after ageing | IS: 13098:2024 |
| 21. | | Airtightness | IS: 13098:2024 |
| 22. | | Marking | IS: 13098:2024 |
| 23. | Rubber & Rubber Allied products | Hardness | IS:3400 (Part-2) 2014 ASTM D2240 |
| 24. | Rubber & Rubber Allied products | Compression set | IS:3400(Part-10/ Sec-2):2022 ASTM D395 |



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| Mechanical Testing | | | |
|--------------------|--|---|--|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Rubber & Rubber Products | | |
| 25. | Rubber & Rubber Allied products | Ageing test | IS:3400 (Part-1) 2021 IS:3400 (Part-2) 2014 IS:3400 (Part-3) 2021 ASTM D573 |
| 26. | Rubber & Rubber Allied products | Tensile strength | IS:3400 (Part-1) 2021 |
| 27. | Rubber & Rubber Allied products | Elongation | IS:3400 (Part-1) 2021 |
| 28. | Rubber & Rubber Allied products | Water immersion changes in volume after immersion | IS:3400 (Part-6) 2018 |
| 29. | Thermoplastic Hoses (Textile Reinforced) for Water | Dimensions | IS 443 (P-8):2023 |
| 30. | Thermoplastic Hoses (Textile Reinforced) for Water | Loss of Mass on Heating | IS: 12585:2023 |
| 31. | Thermoplastic Hoses (Textile Reinforced) for Water | Adhesion | IS 3400 (P-5):2022 |
| 32. | Thermoplastic Hoses (Textile Reinforced) for Water | Pressure Test Requirement | ISO 1402 |
| 33. | Thermoplastic Hoses (Textile Reinforced) for Water | Minimum Bend Radius | IS 12657:2014 RA 2019 |
| 34. | Thermoplastic Hoses (Textile Reinforced) for Water | Low Temperature Flexibility | IS 12657:2014 RA 2019 |
| 35. | Thermoplastic Hoses (Textile Reinforced) for Water | Marking | IS 12585:2023 |

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Mechanical Testing

| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
|---------|---|--------------------------|--|
| | Mechanical Properties of Metal | | |
| 1. | Steel tubes/ steel pipe/ cast iron pipes & fittings/ ductile iron pipes & fittings/ hot rolled steel strip for welded tubes and pipes/ reinforcement)/ steel pipe for water and sewage - seamless and Welded/ steel tubes for mechanical and general engineering purposes | Elongation % | IS 1608(Part 1):2022 |
| 2. | | Yield Stress | IS 1608(P-1): 2022 |
| 3. | | Tensile Strength | IS 1608(Part 1):2022 |
| 4. | | Flattening Test | IS 2328: 2018 RA 2023 |
| 5. | | Bend Test | IS 2329: 2005 RA 2022/ IS 10748 : 2004 RA 2021/ IS 3601 : 2006 RA 2022 |
| 6. | | Dimension | IS 1161 : 2014 RA 2019/ IS 1239 (P-1) : 2004 RA 2014/ IS 1729 : 2023 / IS 8329 : 2000 RA 2020 / IS 15905 : 2024 / IS 3989 : 2024/ IS 10748 : 2004 RA 2014/ IS: 458: 2021/ IS 3589 : 2001 RA 2022/ IS 3601 : 2006 RA 2022 |
| 7. | | Leak Proof Test | IS 1239 (P-1):2004 RA 2014 |
| 8. | | Length | IS 1239 (P-1) : 2004 RA 2014/ IS 3589 : 2001 RA 2022/ IS 3601 : 2006 RA 3601 |
| 9. | | Marking | IS 1239 (P-1):2004 RA 2014 |

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Mechanical Testing

| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
|---------|---|---|--|
| | Mechanical Properties of Metal | | |
| 10. | Steel tubes/ steel pipe/ cast iron pipes & fittings/ ductile iron pipes & fittings/ hot rolled steel strip for welded tubes and pipes/ reinforcement)/ steel pipe for water and sewage - seamless and Welded/ steel tubes for mechanical and general engineering purposes | Mass | IS 1161 : 2014 RA 2019/ IS 1239 (P-1) : 2004 RA 2014/ IS 1729 : 2023 / IS 8329 : 2000 RA 2020 / IS 15905 : 2024 / IS 3989 : 2024/ IS 10748 : 2004 RA 2014/ IS: 458: 2021/ IS 3589 : 2001 RA 2022/ IS 3601 : 2006 RA 2022 |
| 11. | | Straightness | IS 1161 : 2014 RA 2019/ IS 3601 : 2006 RA 2022 |
| 12. | | Thickness | IS 1161 : 2014 RA 2019/ IS 1239 (P-1) : 2004 RA 2014/ IS: 458: 2021/ IS 3589 : 2001 RA 2022/ IS 3601 : 2006 RA 2022 |
| 13. | | Workmanship | IS 1161 : 2014 RA 2019/ IS 1239(P-1) : 2004 RA 2014/ IS: 458: 2021/ IS 3589 : 2001 RA 2022/ IS 3601 : 2006 RA 2022 |
| 14. | | Coating test At a temperature of 65 degree Celsius At a temperature of 0 degree | IS 1729 : 2023/ IS 3989 : 2024/ IS 15905 : 2024 |
| 15. | | Hydro static Test | IS 3989: 2024 / IS 15905 : 2024/ IS: 3597: 1998 RA 2023/ IS 3589 : 2001 RA 2022 |
| 16. | | Hammer Test | IS 15905 :2024 / IS 1729 :2023 |

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Mechanical Testing

| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
|---------|--|---|--|
| | Mechanical Properties of Metal | | |
| 17. | Steel tubes/ steel pipe/ cast iron pipes & fittings/ ductile iron pipes & fittings/ hot rolled steel strip for welded tubes and pipes/reinforcement)/ steel pipe for water and sewage - seamless and Welded/ steel tubes for mechanical and general engineering purposes | Crush Test | IS 15905 : 2024 |
| 18. | | Brinell Hardness | IS 1500 (P-1) : 2019 RA 2024 |
| 19. | | Freedom From Defects | IS 10748 : 2004 RA 2021 |
| 20. | | Tolerances Measurement | IS 10748 : 2004 RA 2021 |
| 21. | | Minimum number of longitudinal mild steel or hard drawn steel | IS: 458: 2021 |
| 22. | | Weight of longitudinal, Mild Steel or Hard Drawn Steel | IS: 458: 2021 |
| 23. | | Weight of Spiral, Hard Drawn Steel Wire | IS: 458: 2021 |
| 24. | | Elongation | IS: 1608 (Part-1): 2022 |
| 25. | Welded Material/ Welds & Welded Specimens/ Welded Wire Mesh/ Fillet Weld Fracture Test | Fillet Weld Fracture | IS: 7307 (Part-1): 1974 RA 2019/ IS 3600 (P-1) : 2022/ASME SECTION IX: 2019 |
| 26. | | Macro examination | IS: 7307 (Part-1): 1974 RA 2019 |
| 27. | | Tensile Strength | IS: 1608 (Part-1): 2022/ ASME SECTION IX 2019 / IS 3600 (Part 4):2024 |
| 28. | | Yield Stress | IS: 1608 (Part-1): 2022 |
| 29. | | Macro Examination | IS 3600 (P-9) : 2025 / ASME SECTION IX: 2019 |

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Mechanical Testing

| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
|---------|--|--|--|
| | Mechanical Properties of Metal | | |
| 30. | Welded Material/ Welds & Welded Specimens/ Welded Wire Mesh/ Fillet Weld Fracture Test | Root Bend | IS 3600(P-5) 2018 & IS 3600(P-7): 2024/ ASME SECTION IX: 2019 |
| 31. | | Side Bend | ASME SECTION IX: 2019 / IS 3600(P-6): 2018 |
| 32. | | Face Bend | IS 3600(P-5) 2018 & IS 3600(P-7): 2024/ ASME SECTION IX : 2019 |
| 33. | | Transverse Tensile Strength | IS 3600(P-3): 2018/ASME SECTION IX: 2019 |
| 34. | | Dimension | IS 1566:1982 RA 2020 |
| 35. | | Mesh Wire Diameter | IS 432 (Part-2):1982 RA 2020 |
| 36. | | Covered Electrodes for Manual Metal Arc Welding of Carbon and Carbon Manganese Steel | Welded Electrode Size |
| 37. | Length | | IS: 814:2004 RA 2021 |
| 38. | Tensile Strength | | IS: 1608 (P-1) 2022 |
| 39. | Yield stress | | IS: 1608 (P-1) 2022 |
| 40. | Elongation | | IS: 1608 (P-1) 2022 |
| 41. | Hard drawn steel wire/ concertina coil/ galvanized steel barbed wire for fencing/ indented wire For prestressed concrete/ mild steel | % Elongation | IS 1608 (Part 1): 2022 |
| 42. | | Reverse Bend Test | IS 1716: 2023/ IS 6003: 2010 RA 2021 |
| 43. | | Warping Test | IS 1755: 2018 RA 2023 |
| 44. | | Ultimate Tensile Strength | IS 1608 (Part 1): 2022 |

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Mechanical Testing

| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method | |
|---------|---|--|--|---|
| | Mechanical Properties of Metal | | | |
| 45. | wire for general engineering purposes/ mild steel wire rods for general engineering purposes/ uncoated stress relieved low relaxation seven ply strand wire | Diameter of Spring Wire | IS 4454 (P-1) : 2001 RA 2021 | |
| 46. | | Pitch Between the barbs | CPWD Specification Vol. 2 : 2019, Clause 16.45.1: 2019 | |
| 47. | | Tensile Strength of Spring wire | IS 1608(P-1) : 2022 | |
| 48. | | Weight of Concertina coil | CPWD Specification 524 Vol. 2 : 2019, Clause 16.45.1: 2019 | |
| 49. | | Breaking Load of Completed barbed Wire | IS 278 : 2009 RA 2020 | |
| 50. | | Diameter of Line Wire | IS 278 : 2009 RA 2020 | |
| 51. | | Diameter of Point Wire | IS 278 : 2009 RA 2020 | |
| 52. | | Distance Between Two Wire | IS 278 : 2009 RA 2020 | |
| 53. | | Mass of Completed Barbed Wire | IS 278 : 2009 RA 2020 | |
| 54. | | No. of Lays Between the Two Consecutive Bars | IS 278 : 2009 RA 2020 | |
| 55. | | Hard drawn steel wire/ concertina coil/ galvanized steel barbed wire for fencing/ indented wire | Dimensions | IS 6003: 2010 RA 2021/ IS 280: 2006 RA 2021 |
| 56. | | | 0.2% Proof Stress | IS 1608 (P-1): 2022 |
| 57. | | For prestressed concrete/ mild steel wire for general engineering purposes/ mild steel wire rods for general engineering purposes/ | Elongation After Fracture | IS 1608 (P-1):2022 |
| 58. | | | MASS | IS 6003: 2010 RA 2021 |
| 59. | Tensile Strength | | IS 1608 (P-1): 2022 | |

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Mechanical Testing

| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
|---------|---|--|---|
| | Mechanical Properties of Metal | | |
| 60. | uncoated stress relieved low relaxation seven ply strand wire | Freedom From Defects | IS 280 : 2006 RA 2021/ IS 7887 : 1992 RA 2022 |
| 61. | | Size and Tolerances | IS 280 : 2006 RA 2021 |
| 62. | | Size and Tolerance- out of shape | IS 7887 : 1992 RA 2022 |
| 63. | | Size and Tolerances - Diameter | IS 7887 : 1992 RA 2022 |
| 64. | | 0.2 % Proof Load | IS 1608(P-1): 2022 |
| 65. | | Breaking strength | IS 1608(P-1): 2022 |
| 66. | | Diameter difference between centre and surrounding wire | IS 14268: 2022 |
| 67. | | Length of Lay | IS 14268: 2022 |
| 68. | | Modulus of Elasticity | IS 1608(P-1): 2022 |
| 69. | | Nominal Area | IS 14268: 2022 |
| 70. | | Nominal Diameter | IS 14268: 2022 |
| 71. | | Nominal Mass | IS 14268: 2022 |
| 72. | | Workmanship & Finish | IS 14268: 2022 |
| 73. | | Cold Reduced Carbon Steel Sheet and Strip Part 1 Cold Forming and Drawing Purposes and Part 2 High Tensile and Multi-phase Steel/ Galvanized Sheet- Corrugated/ Hot Rolled Carbon Steel Sheet, Plate and Strip | % Elongation |
| 74. | Bend Test | | IS 1599: 2023 |
| 75. | Dimensions Measurement | | IS 513 (P-1 and P-2) : 2016 RA 2021 |

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Mechanical Testing

| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method | |
|---------|--|--|--|-------------------------------|
| | Mechanical Properties of Metal | | | |
| 76. | Cold Reduced Carbon Steel Sheet and Strip Part 1 Cold Forming and Drawing Purposes and Part 2 High Tensile and Multi-phase Steel/ Galvanized Sheet- Corrugated/ Hot Rolled Carbon Steel Sheet, Plate and Strip | Freedom From Defects | IS 513 (P-1 and 2) : 2016 RA 2021/ IS 277: 2018 RA 2022/ IS 1079: 2017 RA 2022 | |
| 77. | | Surface Finish | IS 15262: 2002 RA 2019 | |
| 78. | | Tensile Strength | IS 1608(P-1): 2022 | |
| 79. | | Dimensions and Tolerances | IS 513 (P-1 and P-2) : 2016 RA 2021 | |
| 80. | | Yield Stress /0.2 % Proof Stress | IS 1608(P-1): 2022 | |
| 81. | | Depth | IS 277: 2018 RA 2022 | |
| 82. | | Length | IS 277: 2018 RA 2022 | |
| 83. | | Mass | IS 277: 2018 RA 2022 | |
| 84. | | Thickness | IS 277: 2018 RA 2022 | |
| 85. | | Width | IS 277: 2018 RA 2022 | |
| 86. | | Dimension | IS 1730 : 1989 RA 2019 | |
| 87. | | Mass | IS 1079: 2017 RA 2022 | |
| 88. | | Stainless Steel Plate, Sheet and Strip | % Elongation | IS 1608(P-1): 2022 |
| 89. | | | Bend Test | IS 1599 : 2023 |
| 90. | | | Brinell Hardness | IS 1500 (P-1) : 2019 RA 2024 |
| 91. | | | Corrosion Resistance | IS 10461(P-1,2): 1994 RA 2021 |

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Mechanical Testing

| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
|---------|--|---|----------------------------|
| | Mechanical Properties of Metal | | |
| 92. | Stainless Steel Plate, Sheet and Strip | Dimension & Tolerance Measurement | IS 6911: 2017 RA 2022 |
| 93. | | Ericksen Cupping Test | IS 10175 :2018 RA 2023 |
| 94. | | Freedom From Defects | IS 6911: 2017 RA 2022 |
| 95. | | Hardness Test (Rockwell Hardness) | IS 1586(P-1): 2018 RA 2023 |
| 96. | | Marking | IS 6911: 2017 RA 2022 |
| 97. | | Surface Finish | IS 6911: 2017 RA 2022 |
| 98. | | Tensile Strength | IS 1608(P-1): 2022 |
| 99. | | Yield Stress / 0.2% Proof Stress | IS 1608(P-1): 2022 |
| 100. | Stainless Steel Utensils | Shapes & Dimensions | IS: 14756-2024 |
| 101. | | Workmanship & Finish | IS: 14756-2024 |
| 102. | | Staining Test | IS: 14756-2024 |
| 103. | | Mechanical shock test | IS: 14756-2024 |
| 104. | | Thermal shock test | IS: 14756-2024 |
| 105. | | Dry Heat test | IS: 14756-2024 |
| 106. | | Coating thickness Test (For Copper Deposit) | IS: 14756-2024 |
| 107. | | Nominal Capacity Test | IS: 14756-2024 |
| 108. | | Fragmentation Test | IS: 14756-2024 |

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Mechanical Testing

| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
|---------|--|---|------------------------|
| | Mechanical Properties of Metal | | |
| 109. | Stainless Steel Utensils | Ball Drop Test | IS: 14756-2024 |
| 110. | | Thermal Shock Test | IS: 14756-2024 |
| 111. | | Free Fall Test | IS: 14756-2024 |
| 112. | High Strength deformed Steel bars and wires for Concrete Reinforcement | Bend Test | IS 1599: 2023 |
| 113. | | Mass per meter | IS 1786 : 2008 RA 2018 |
| 114. | | Re-bend Test | IS 1786 : 2008 RA 2018 |
| 115. | | Tensile Strength | IS 1608 (P-1): 2022 |
| 116. | | Elongation % | IS 1608 (P-1): 2022 |
| 117. | | Yield Stress / 0.2 % Proof stress | IS: 1608 (P-1): 2022 |
| 118. | | Bond Test - Deformation and Surface Characteristic | IS 1786 : 2008 RA 2018 |
| 119. | | Specified Length | IS 1786 : 2008 RA 2018 |
| 120. | | % Total Elongation at Maximum Force | IS 1608(P-1): 2022 |
| 121. | | Deformation & Surface Characteristics Mean Area of Rib | IS 1786 : 2008 RA 2018 |
| 122. | | Deformation & Surface Characteristics Mean Projected Area of Transverse Rib | IS 1786 : 2008 RA 2018 |
| 123. | | Effective Cross- Section Area | IS 1786 : 2008 RA 2018 |
| 124. | Nominal Cross- Sectional Area | IS 1786 : 2008 RA 2018 | |

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Mechanical Testing

| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method | |
|---------|--|--|--|---|
| | Mechanical Properties of Metal | | | |
| 125. | High Strength deformed Steel bars and wires for Concrete Reinforcement | Surface Defects | IS 1786 : 2008 RA 2018 | |
| 126. | | TS/YS Ratio | IS 1608(P-1): 2022 | |
| 127. | | Pull Out Test | IS 2770 (Part 1): 1967 RA 2022 | |
| 128. | | Bend Test | IS 1599: 2023 | |
| 129. | | Elongation % | IS 1608(P-1): 2022 | |
| 130. | | Freedom From Defects | IS 2062: 2011 RA 2021/ IS 432 (P-1 and 2) : 1982 RA 2020/ IS 3502 : 2009 RA 2021 | |
| 131. | | Hot Rolled Medium and High Tensile Structural Steel/ Mild Steel and Medium Tensile Steel Bars and Hard-Drawn Steel Wire for Concrete Reinforcement/ Steel Chequered Plates | Length | IS 1730 : 1989 RA 2019/ IS 1732 : 1989 RA 2019/ IS 1852 : 1989 RA 2022/ IS 2676 : 1981 RA 2022/ IS 2677 : 1981 RA 2022/ IS 808 : 2021/ IS 3502 : 2009 |
| 132. | | | Mass | IS 1730 : 1989 RA 2019/ IS 1732 : 1989 RA 2019/ IS 808 : 2021 |
| 133. | | | Tensile Strength | IS 1608(P-1): 2022 |
| 134. | | | Thickness | IS 1730 : 1989 RA 2019/ IS 1732 : 1989 RA 2019/ IS 1852 : 1989 RA 2022/ IS 2676 : 1981 RA 2022/ IS 2677 : 1981 RA 2022/ IS 808 : 2021/ IS 3502 : 2009 |

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| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
|---------|--|--------------------------------|---|
| | Mechanical Properties of Metal | | |
| 135. | High Strength deformed Steel bars and wires for Concrete Reinforcement | Width | IS 1730 : 1989 RA 2019/ IS 1732 : 1989 RA 2019/ IS 1852 : 1989 RA 2022/ IS 2676 : 1981 RA 2022/ IS 2677 : 1981 RA 2022/ IS 808 : 2021/ IS 3502 : 2009 |
| 136. | | Yield Stress/0.2% Proof Stress | IS 1608(P-1): 2022 |
| 137. | | Dimensions | IS 432 (P-1 and 2) : 1982 RA 2020 |
| 138. | | Calculation of Mass | IS 3502 : 2009 RA 2021 |
| 139. | | Chequered Height | IS 3502 : 2009 RA 2021 |
| 140. | Reinforcement Couplers for Mechanical Splices of Bars in Concrete | Elongation % | IS 1608(P-1): 2022 |
| 141. | | Slip test | IS 16172 : 2023 |
| 142. | | Tensile Strength | IS 1608(P-1): 2022 |
| 143. | | Workmanship And Finish | IS 16172 : 2023 |
| 144. | Hollow Steel Section for Structural Use | Dimension - Outside Dimension | IS 4923: 2017 RA 2023 |
| 145. | | Length | IS 4923: 2017 RA 2023 |
| 146. | | Mass | IS 4923 : 2017 RA 2023 |
| 147. | | Thickness | IS 4923: 2017 RA 2023 |
| 148. | | Tensile Strength | IS 1608 (P-1): 2022 |
| 149. | | Elongation % | IS 1608 (P-1): 2022 |
| 150. | | Yield Stress | IS: 1608 (P-1): 2022 |

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Mechanical Testing

| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
|---------|--|----------------------------|---|
| | Mechanical Properties of Metal | | |
| 151. | Aluminium and alloys, bars and rods | Dimensions (Width) | IS 2673 : 2002 RA 2022 |
| 152. | | Freedom From Defects | IS 1285 : 2023/ IS 733 : 1983 RA 2022/ IS 737 : 2024/ IS 738 : 1994 RA 2020 |
| 153. | | Thickness | IS 2678 : 1987 RA 2022/ IS 6477 : 1983 RA 2021/ IS 3965 : 1981 RA 2022 |
| 154. | | % Elongation | IS 1608 (P-1):2022 |
| 155. | | 0.2 % Proof Stress | IS 1608(P-1) : 2022 |
| 156. | | Tensile Strength | IS 1608 (P-1):2022 |
| 157. | | Dimensions (Length) | IS 2673 : 2002 RA 2022 |
| 158. | | Wrought Aluminium Utensils | Colour |
| 159. | Handles | | Cl.7.0 of IS 1660 : 2024 |
| 160. | Hardness | | Cl.8.3 of IS 1660 : 2024 |
| 161. | Marking | | Cl.11.0 of IS 1660 : 2024 |
| 162. | Test For Lunch Boxes- Performance Test | | Cl.8.10 of IS 1660 : 2024 |
| 163. | Abrasion Resistance | | Cl.8.3 of IS 1660 : 2024 |
| 164. | Fabrication (Reduction in thickness) | | Cl.5 of IS 1660 : 2024 |
| 165. | Shape and Dimensions | | Cl.6 of IS 1660 : 2024 |

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Mechanical Testing

| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
|---------|---|------------------------------------|-----------------------------|
| | Mechanical Properties of Metal | | |
| 166. | Wrought Aluminium Utensils | Test For Lunch Boxes-Ground Nut | Cl.8.10.2 of IS 1660 : 2024 |
| 167. | | Oil Test for Leakage | |
| 167. | | Workmanship and Finish | Cl.8 of IS 1660: 2024 |
| 168. | Wrought aluminium and aluminium alloy rivet stock for general engineering purposes/ wrought aluminium and aluminium alloy for manufacture of utensils | Freedom From Defects | IS 740: 1977 RA 2022 |
| 169. | | Tensile Strength | IS 1608 (P-1):2022 |
| 170. | | 0.2% Proof Stress | IS 1608 (P-1):2022 |
| 171. | | Bend Test | IS 1599: 2023 |
| 172. | | Elongation % on 50 mm Gauge Length | IS 1608 (P-1):2022 |
| 173. | | Marking | IS 21: 1992 RA 2022 |
| 174. | | Dimension & Tolerances | IS 740: 1977 RA 2022 |
| 175. | | Head Forming Test | IS 740: 1977 RA 2022 |
| 176. | | Marking | IS 740: 1977 RA 2022 |
| 177. | | % Elongation | Is 1608(P-1): 2022 |
| 178. | Fasteners made of carbon steel and alloy steel " bolts, screws and studs | Rockwell Hardness | IS 1586(P-1): 2018 RA 2023 |
| 179. | | Rockwell Hardness, HRBW | IS 1586 (P-1):2018 |
| 180. | | Tensile Strength | IS 1608(P-1): 2022 |
| 181. | | Yield Stress | IS 1608(P-1): 2022 |
| 182. | | Rockwell Hardness | IS 1586(P-1): 2018 RA 2023 |
| 183. | Metallic Materials | Rockwell Hardness (HRBW) | IS 1586(P-1): 2018 RA 2023 |

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Mechanical Testing

| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
|---------|---|------------------------------|-----------------------------|
| | Mechanical Properties of Metal | | |
| 184. | Steel Butt Hinges | Screw Holes | IS: 6760: 1972 RA 2021 |
| 185. | | Position of Holes | IS 1341: 2018 |
| 186. | | Finish | IS 1341: 2018 |
| 187. | | Dimensions | IS: 1341: 2018 |
| 188. | | Number of Knuckles | IS: 1341: 2018 |
| 189. | Stainless Steel Butt Hinges | Screw Holes | IS: 6760: 1972 RA 2021 |
| 190. | | Position of Holes | IS 12817 : 2020 |
| 191. | | Finish | IS 12817 : 2020 |
| 192. | | Dimensions | IS 12817 : 2020 |
| 193. | | Number of Knuckles | IS 12817 : 2020 |
| 194. | Door Handles for Mortice Locks / Mortice Locks | Manufacture and Construction | IS: 4992-2024 |
| 195. | | Performance Requirement | IS: 4992-2024 / CPWD Method |
| 196. | | Workmanship | IS: 4992-2024 |
| 197. | | Handle Rotation Terminology | IS: 4992-2024 |
| 198. | | Centre Distance | IS: 4992-2024 |
| 199. | Stainless Steel Sinks for Domestic Purposes | Thickness | IS: 13983 - 1994 RA 2019 |
| 200. | | Depth of Bowls | IS: 13983 - 1994 RA 2019 |
| 201. | | Internal Dimension of Bowls | IS: 13983 - 1994 RA 2019 |
| 202. | | Marking | IS: 13983 – 1994 RA 2019 |

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Mechanical Testing

| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
|---------|---------------------------------------|--|-------------------|
| | Mechanical Properties of Metal | | |
| 203. | Butterfly Valves for General Purposes | Face to Face Dimension | IS 13095: 2020 |
| 204. | | Performance Testing (Seat, Body Test) | IS 13095: 2020 |
| 205. | | Leakage Test | IS 13095: 2020 |
| 206. | Metal Beam Crash Barrier | Tensile Strength, N/mm ² | IS:1608(P-1)-2022 |
| 207. | Metal Beam Crash Barrier | Yield Stress, N/mm ² | IS:1608(P-1)-2022 |
| 208. | Metal Beam Crash Barrier | Elongation, % | IS:1608(P-1)-2022 |
| 209. | Metal Beam Crash Barrier | Bend Test | IS:1599-2023 |
| 210. | Sprinkler Heads for Fire Protection | Leakage Test (30 days Leakage Test) (Nuematic Leakage Test) (Hydrostatic Strength) | IS 9972:2023 |
| 211. | Sprinkler Heads for Fire Protection | Water Hammer Test | IS 9972:2023 |
| 212. | | Deflector Strength | IS 9972:2023 |
| 213. | | Operating Temperature (Air Bath Test) | IS 9972:2023 |
| 214. | | Heat Exposure Test (Glass Bulb Sprinklers) | IS 9972:2023 |
| 215. | | Freezing Test | IS 9972:2023 |
| 216. | | Corrosion Test(Salt Spray Test) | IS 9972:2023 |
| 217. | Sprinkler Heads for Fire Protection | Stress Cracking Test | IS 9972:2023 |

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Mechanical Testing

| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
|---------|---|-------------------------------------|------------------------------|
| | Mechanical Properties of Metal | | |
| 218. | SDA Rod / Coupler | Tensile Strength, N/mm ² | IS:1608(P-1)-2022 |
| 219. | SDA Rod / Coupler | Yield Stress, N/mm ² | IS:1608(P-1)-2022 |
| 220. | SDA Rod / Coupler | Elongation, % | IS:1608(P-1)-2022 |
| 221. | Stainless Steel Seamless Pipes and Tubes for General Services | Tensile Strength | IS:1608(P-1)-2022 |
| 222. | | Yield Strength | IS:1608(P-1)-2022 |
| 223. | | Percent Elongation | IS:1608(P-1)-2022 |
| 224. | | Brinell Hardness | IS 1500 (P-1): 2019 RA 2023 |
| 225. | | Rockwell Hardness HRC | IS 1586(P-1): 2018 RA 2023 |
| 226. | | Rockwell Hardness HRB | IS 1586(P-1): 2018 RA 2023 |
| 227. | | Flattening test | IS 2328: 2018 RA 2023 |
| 228. | | Leak tightness test | IS 17875 : 2022 |
| 229. | | Outside Diameter | IS 17875 : 2022 |
| 230. | | Wall Thickness | IS 17875 : 2022 |
| 231. | Stainless Steel Welded Pipes and Tubes for General Services | Tensile Strength | IS:1608(P-1)-2022 |
| 232. | | Yield Strength | IS:1608(P-1)-2022 |
| 233. | | Percent Elongation | IS:1608(P-1)-2022 |
| 234. | | Brinell Hardness | IS 1500 (P-1) : 2019 RA 2024 |
| 235. | | Rockwell Hardness HRC | IS 1586(P-1): 2018 RA 2023 |

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Mechanical Testing

| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
|---------|--|---|----------------------------|
| | Mechanical Properties of Metal | | |
| 236. | Stainless Steel Welded Pipes and Tubes for General Services | Rockwell Hardness HRB | IS 1586(P-1): 2018 RA 2023 |
| 237. | | Flattening test | IS 2328: 2018 RA 2023 |
| 238. | | Leak tightness test | IS 17876: 2022 |
| 239. | | Outside diameter | IS 17876: 2022 |
| 240. | | Wall thickness | IS 17876: 2022 |
| 241. | | Tensile strength | IS:1608(P-1)-2022 |
| 242. | Steel rivet bars (medium and high tensile) for structural purposes | Diameter of Bar | IS 1148: 2009 RA 2021 |
| 243. | Steel Shelving Cabinets | Dimensions and tolerances (Overall Dimensions of Shelving Cabinets) Height Width Depth | IS 3312: 2021 |
| 244. | | Dimensions of Lockers Height Width Depth | IS 3312: 2021 |
| 245. | | Safe Distributed Loads for Shelves for Shelving Cabinets | IS 3312: 2021 |
| 246. | | Thickness of cabinet | IS 3312: 2021 |
| 247. | | Dimension of Shelves | IS 3312: 2021 |

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Mechanical Testing

| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
|---------|---|---------------------------|---|
| | Mechanical Properties of Metal | | |
| 248. | | Dimension of Pedestal | IS 3312: 2021 |
| 249. | Steel Shelving Cabinets | Dimension of Hinges | IS 3312: 2021 |
| 250. | Landing Valves | Dimensions | IS: 5290 – 1993 RA 2018 |
| 251. | | Finish | IS: 5290 – 1993 RA 2018 |
| 252. | | Water Tightness | IS: 5290 – 1993 RA 2018 |
| 253. | | Hydrostatic Pressure Test | IS: 5290 – 1993 RA 2018 |
| 254. | | Flow Test | IS: 5290 – 1993 RA 2018 |
| 255. | | Marking | IS: 5290 – 1993 RA 2018 |
| 256. | Couplings, Double Male and Double Female Instantaneous Pattern for Fire Fighting / Fire Hose Delivery Couplings, Branch Pipe, Nozzles and Nozzle Spanner / Delivery Breechings, Dividing and Collecting, Instantaneous Pattern for Fire Fighting Purposes / | Dimension | IS: 901 1988 RA 2017 / IS: 903 1993 RA 2018 / IS: 905 1980 RA 2018 / IS: 906 2024 / IS: 907 1984 RA 2020 / IS: 910 1980 RA 2018 |
| 257. | Portable and Fixed Type Revolving Branch for Fire Fighting / Suction Strainers, cylindrical Type for Fire | Hydraulic Test | IS: 901 1988 RA 2017 / IS: 903 1993 RA 2018 / IS: 905 1980 RA 2018 / IS: 906 2024 / IS: 907 1984 |

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Mechanical Testing

| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
|---------|---|-----------------------------------|---|
| | Mechanical Properties of Metal | | |
| 258. | Fighting Purposes / Combined Key for Hydrant, Hydrant Cover and Lower Valve / Fog Nozzle for Fire Brigade Use | Workmanship and Finish | IS: 901 1988 RA 2017 / IS: 903 1993 RA 2018 / IS: 905 1980 RA 2018 / IS: 906 2024 / IS: 907 1984 RA 2020 / IS: 910 1980 RA 2018 |
| 259. | | Marking | IS: 901 1988 RA 2017 / IS: 903 1993 RA 2018 / IS: 905 1980 RA 2018 / IS: 906 2024 / IS: 907 1984 RA 2020 / IS: 910 1980 RA 2018 |
| 260. | Fire Hose Delivery Couplings, Branch Pipe, Nozzles and Nozzle Spanner | Deflection Test | IS: 903 1993 RA 2018 |
| 261. | Portable and Fixed Type Revolving Branch for Fire Fighting | Environmental Test | IS: 906 2024 |
| 262. | Portable Fire Extinguishers - Performance & Construction Specification | Fill Density | IS: 15683 - 2018 |
| 263. | | Capacities | IS: 15683 - 2018 |
| 264. | | Pressure Test | IS: 15683 - 2018 |
| 265. | | Minimum Burst Pressure | IS: 15683 - 2018 |
| 266. | | Operating Temperature Ranges | IS: 15683 - 2018 |
| 267. | | Min. Effective Discharge Time | IS: 15683 - 2018 |
| 268. | | Bulk Range of Discharge | IS: 15683 - 2018 |
| 269. | | Resistance to Temperature changes | IS: 15683 - 2018 |

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Mechanical Testing

| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
|---------|--|--|------------------|
| | Mechanical Properties of Metal | | |
| 270. | Portable Fire Extinguishers - Performance & Construction Specification | Retention of Charge following Partial Discharge (Discharge Valve Test) | IS: 15683 – 2018 |
| 271. | | Leakage Test | IS: 15683 – 2018 |
| 272. | | Maximum Service Pressure | IS: 15683 – 2018 |
| 273. | | Air- Oven Ageing | IS: 15683 - 2018 |
| 274. | | Impact Resistance Test | IS: 15683 - 2018 |
| 275. | | Vibration Resistance Test | IS: 15683 - 2018 |
| 276. | | External Corrosion Test | IS: 15683 – 2018 |
| 277. | | Internal Corrosion Test | IS: 15683 - 2018 |
| 278. | | Tapping Test | IS: 15683 - 2018 |
| 279. | | Intermittent Discharge Test | IS: 15683 - 2018 |
| 280. | | Performance Requirement for Fire Test | IS: 15683 - 2018 |
| 281. | | Construction Requirement | IS: 15683 - 2018 |
| 282. | | General Requirement | IS: 15683 - 2018 |
| 283. | | Burst Test | IS: 15683 - 2018 |
| 284. | | Crushing Test | IS: 15683 - 2018 |
| 285. | Pressure Cycling Test | IS: 15683 – 2018 | |

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Mechanical Testing

| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
|---------|--|---|--------------------------|
| | Mechanical Properties of Metal | | |
| 286. | Portable Fire Extinguishers - Performance & Construction Specification | Thickness of the Cylinder | IS: 15683 – 2018 |
| 287. | | Carrying Handle | IS: 15683 - 2018 |
| 288. | | Mounting | IS: 15683 - 2018 |
| 289. | | Cap, Valve & Closure | IS: 15683 - 2018 |
| 290. | | Safety Devices | IS: 15683 – 2018 |
| 291. | | Requirement for Plastic Component | IS: 15683 - 2018 |
| 292. | | Requirement of Hose Assemblies | IS: 15683 - 2018 |
| 293. | | Method of Operation (Batch Test) | IS: 15683 – 2018 |
| 294. | | Safety Locking Devices | IS: 15683 – 2018 |
| 295. | | Requirement for Pressure Gauges and Indicators | IS: 15683 – 2018 |
| 296. | | Requirement of Dip-Tubes and Filters | IS: 15683 – 2018 |
| 297. | | Horn Test for Carbon Dioxide Extinguishers | IS: 15683 – 2018 |
| 298. | | Marking and Colour | IS: 15683 – 2018 |
| 299. | | Fill Density & Filling Tolerance | IS: 16018 – 2012 RA 2018 |
| 300. | Operating Temperatures | IS: 16018 – 2012 RA 2018 | |

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Mechanical Testing

| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
|---------|--|--|--------------------------|
| | Mechanical Properties of Metal | | |
| 301. | Portable Fire Extinguishers - Performance & Construction Specification | Bulk Range | IS: 16018 – 2012 RA 2018 |
| 302. | | Effective Discharge Time | IS: 16018 – 2012 RA 2018 |
| 303. | | Resistance to Temperature Changes | IS: 16018 – 2012 RA 2018 |
| 304. | | Retention of Charge | IS: 16018 – 2012 RA 2018 |
| 305. | | Intermittent Discharge Test | IS: 16018 – 2012 RA 2018 |
| 306. | | External Corrosion Test | IS: 16018 – 2012 RA 2018 |
| 307. | Wheeled Fire Extinguishers – Performance and Construction | Internal Corrosion Test | IS: 16018 – 2012 RA 2018 |
| 308. | | Durability Test | IS: 16018 – 2012 RA 2018 |
| 309. | | Fire Performance Test | IS: 16018 – 2012 RA 2018 |
| 310. | | Construction Requirements | IS: 16018 – 2012 RA 2018 |
| 311. | | Low-Pressure Cylinders Service Pressure | IS: 16018 – 2012 RA 2018 |
| 312. | | Burst Test | IS: 16018 – 2012 RA 2018 |
| 313. | | Deformation Test | IS: 16018 – 2012 RA 2018 |
| 314. | | Pressure Cycling Test | IS: 16018 – 2012 RA 2018 |
| 315. | | Thickness of Cylinders | IS: 16018 – 2012 RA 2018 |
| 316. | | Caps, Valves and Closures | IS: 16018 – 2012 RA 2018 |
| 317. | | Safety devices | IS: 16018 – 2012 RA 2018 |
| 318. | | Anti-overfill devices | IS: 16018 – 2012 RA 2018 |

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| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
|---------|--|---|--------------------------|
| | Mechanical Properties of Metal | | |
| 319. | Wheeled Fire Extinguishers – Performance and Construction | Leakage Tests | IS: 16018 – 2012 RA 2018 |
| 320. | | Plastic Component Requirements | IS: 16018 – 2012 RA 2018 |
| 321. | | Discharge Assembly | IS: 16018 – 2012 RA 2018 |
| 322. | | Horn for Carbon Dioxide Extinguisher | IS: 16018 – 2012 RA 2018 |
| 323. | | Method of Operation | IS: 16018 – 2012 RA 2018 |
| 324. | | Safety-Locking Device | IS: 16018 – 2012 RA 2018 |
| 325. | | Pressure Gauge for Low Pressure Extinguishers | IS: 16018 – 2012 RA 2018 |
| 326. | | Requirement of Dip Tubes & Filters | IS: 16018 – 2012 RA 2018 |
| 327. | | Carriage Assembly | IS: 16018 – 2012 RA 2018 |
| 328. | | Mobility Test | IS: 16018 – 2012 RA 2018 |
| 329. | | Hose Retaining Unit | IS: 16018 – 2012 RA 2018 |
| 330. | | Colour and Marking | IS: 16018 – 2012 RA 2018 |



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|--------------------|--|-----------------------------------|------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building Infrastructure & Construction Material | | |
| 1. | Fire Resisting Record Protection Cabinets | Nominal Size | IS: 14203 - 2023 |
| 2. | | Dimensions | IS: 14203 - 2023 |
| 3. | | Cabinet Construction | IS: 14203 - 2023 |
| 4. | | Locking Mechanism | IS: 14203 - 2023 |
| 5. | | Locks | IS: 14203 - 2023 |
| 6. | | Handles | IS: 14203 - 2023 |
| 7. | | Internal Fixtures | IS: 14203 - 2023 |
| 8. | | Painting | IS: 14203 - 2023 |
| 9. | | Cross Hatch Test | IS: 14203 - 2023 |
| 10. | | Fire Test | IS: 14203 - 2023 |
| 11. | Fire Doors and Door sets | Size of Vision Pane | IS: 3614 - 2021 |
| 12. | | Fire Test | IS: 3614 - 2021 |
| 13. | | Fire Rated Hinged Doors-Dimension | IS: 3614 - 2021 |
| 14. | | Fire Rated Hinged Doors-Thickness | IS: 3614 - 2021 |
| 15. | | Marking and Labelling | IS: 3614 - 2021 |
| 16. | Fire Resistance Tests for Doors with Glass Panes, Openable Glass Windows and Sliding Glass doors | Fire Test | IS: 16947 2018 RA 2024 |
| 17. | | Test for Integrity | IS: 16947 2018 RA 2024 |
| 18. | | Test for Insulation | IS: 16947 2018 RA 2024 |
| 19. | | Test for Radiation | IS: 16947 2018 RA 2024 |

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|--------------------|--|---------------------------------------|-------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building Infrastructure & Construction Material | | |
| 20. | | Deflection | IS: 16947 2018 RA 2024 |
| 21. | Autoclaved Cellular Concrete Blocks/Autoclaved Aerated Concrete Blocks | Fire test Upto 1200 degree centigrade | BS 476-20 |
| 22. | | Fire test Upto 1200 degree centigrade | ASTM E119 |
| 23. | Door and shutter Assemblies | Fire Resistance Test | ISO 3008-1 |
| 24. | Door and shutter /Boards /Panels | Fire Resistance Test | ISO 834-1 |
| 25. | Door and shutter /Boards /Panels | Fire test Upto 1200 degree centigrade | ASTME 119 |
| 26. | Doors with glass Panels/Openable Glass Windows and Sliding Glass | Fire Resistance Test | IS 16947 2018 RA 2024 |
| 27. | Lift Landing Door Assemblies | Fire Resistance Test | IS 17518 (PART -2) 2021 |
| 28. | Lift Landing Door Assemblies | Fire Resistance Test | ISO 3008-2 |
| 29. | Metal Swing Doors/Wooden Composite Swing Doors/ Metal Rolling Shutters | Fire Resistance Test | BS EN 1634 (P-1): 2014 |
| 30. | Wall /Partitions/ Floors / Roofs | Fire Resistance Test | IS 3809 1979 |
| 31. | Wall /Partitions/ Floors / Roofs | Fire Resistance Test | EN1364-1 |

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| Mechanical Testing | | | |
|--------------------|--|---|------------------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building Infrastructure & Construction Material | | |
| 32. | Admixtures | Air Content | IS 1199 (Part 4):2018 |
| 33. | Admixtures | Bleeding | IS 9103: 1999, RA 2018 |
| 34. | Admixtures | Compressive Strength | IS 516: 1959 RA 2018 |
| 35. | Admixtures | Flow | IS 9103: 1999, RA 2018 |
| 36. | Admixtures | Loss of Workability | IS 1199: 1959 |
| 37. | Admixtures | Setting Times (Initial and Final) | IS 1199 (Part 7):2018 |
| 38. | Admixtures | Water Content | IS 9103: 1999 RA 2018 |
| 39. | Aggregate (Coarse & Fine) | Bulk Density | IS 2386 (Part 3): 1963, (RA-2016) |
| 40. | Aggregate (Coarse & Fine) | Impact Value | IS 2386 (Part 4): 1963, (RA-2016) |
| 41. | Aggregate (Coarse & Fine) | Sieve Analysis, Material Passing Through IS Sieve % | IS 2386 (Part 1): 1963, (RA-2016) |
| 42. | Coarse Aggregate | Abrasion Value | IS: 2386 (Part 4): 1963, (RA-2021) |
| 43. | Coarse Aggregate | Clay Lumps | IS 2386 (Part 2): 1963, (RA- 2021) |
| 44. | Coarse Aggregate | Coal And Lignite | IS 2386 (Part 2): 1963, (RA-2021) |
| 45. | Coarse Aggregate | Combined Flakiness and Elongation Index | IS 2386 (Part 1): 1963, RA 2021 |
| 46. | Coarse Aggregate | Crushing Value | IS: 2386 (Part 4): 1963 RA-2021 |
| 47. | Coarse Aggregate | Elongation Index | IS 2386 (Part 1) : 1963 RA-2021 |

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|--------------------|--|--|--|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building Infrastructure & Construction Material | | |
| 48. | Coarse Aggregate | Flakiness Index | IS 2386 (Part 1):1963 RA-2021 |
| 49. | Coarse Aggregate | Material Finer than 75 microns | IS 2386 (Part 1): 1963 RA-2021 |
| 50. | Coarse Aggregate | Soft Particle | IS 2386 (Part 2): 1963 RA-2021 |
| 51. | Coarse Aggregate | Soundness by Na ₂ SO ₄ | IS 2386 (Part 5): 1963 RA-2021 |
| 52. | Coarse Aggregate | Soundness by MgSO ₄ | IS 2386 (Part 5): 1963 RA-2021 |
| 53. | Coarse Aggregate | Specific Gravity | IS 2386 (Part 3):1963 RA-2021 |
| 54. | Coarse Aggregate | Surface Moisture | IS: 2386 (Part-3): 1963 RA-2021 |
| 55. | Coarse Aggregate | Ten Percent Fines Value | IS 2386 (Part 4): 1963 RA-2021 |
| 56. | Coarse Aggregate | Water Absorption | IS 2386 (Part 3): 1963 RA-2021 |
| 57. | Coarse Aggregate | Polished Stone Value | EN 1097 (Part-8): 2009 / EN 14231: 2003 |
| 58. | Fine Aggregate | Bulking of Sand | IS: 2386 (Part-3): 1963 RA-2021 |
| 59. | Fine Aggregate | Clay Lumps | IS 2386 (Part 2): 1963 RA-2021 |
| 60. | Fine Aggregate | Coal And Lignite | IS 2386 (Part 2):1963 RA-2021 |
| 61. | Fine Aggregate | Material Finer than 75 microns | IS 2386 (Part 1):1963 RA-2021 |
| 62. | Fine Aggregate | Organic Impurities | IS 2386 (Part 2): 1963 RA-2021 |
| 63. | Fine Aggregate | Silt Content | CPWD Specification Vol. 1 2019, Appendix-C, Clause 3.1.3.2 / IS 2386 (Part 2) : 1963 RA-2021 |

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|--------------------|--|--|----------------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building Infrastructure & Construction Material | | |
| 64. | Fine Aggregate | Soundness by Na ₂ SO ₄ | IS 2386 (Part 5): 1963 RA-2021 |
| 65. | Fine Aggregate | Soundness by MgSO ₄ | IS 2386 (Part 5): 1963 RA-2021 |
| 66. | Fine Aggregate | Specific Gravity | IS 2386 (Part 3):1963 RA-2021 |
| 67. | Fine Aggregate | Water Absorption | IS 2386 (Part 3): 1963 RA-2021 |
| 68. | Fine Aggregates | Sand Equivalent Value | IS: 2720 (P-37) : 1976 RA 2021 |
| 69. | Fine Aggregate | Fineness Modulus | ASTM C -136 (Cl.9.2) |
| 70. | Coarse/Fine Aggregate | Petrography Test | IS:2386 (Part-8) 1963 RA 2021 |
| 71. | Bituminous Mix | Indirect Tensile Strength Ratio | ASTM D6931: 2017 |
| 72. | Paving Bitumen | Flash Point | IS 1209: 2021 |
| 73. | Paving Bitumen | Flash Point | IS 1448 (Part 69) : 2019 RA 2024 |
| 74. | Paving Bitumen | Penetration | IS 1203: 2022 |
| 75. | Paving Bitumen | Softening Point | IS 1205: 2022 |
| 76. | Paving Bitumen | Solubility in Trichloroethylene | IS 1216 : 2023 |
| 77. | Paving Bitumen | Specific Gravity | IS 1202 : 2021 |
| 78. | Pulverised fuel ash lime brick | Dimensions- Height | IS 12894 : 2002 RA 2022 |
| 79. | Pulverised fuel ash lime brick | Dimensions- Length | IS 12894 : 2002 RA 2022 |
| 80. | Pulverised fuel ash lime brick | Dimensions- Width | IS 12894 : 2002 RA 2022 |

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|--------------------|--|--------------------------|-------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building Infrastructure & Construction Material | | |
| 81. | Pulverised Fuel Ash Lime Bricks | Dimensions- Height | IS 13757 : 1993 RA 2021 |
| 82. | Pulverised Fuel Ash Lime Bricks | Dimensions- Length | IS 13757 : 1993 RA 2021 |
| 83. | Pulverised Fuel Ash Lime Bricks | Dimension- width | IS 13757 : 1993 RA 2021 |
| 84. | Burnt Clay Bricks | Dimensions- Length | IS 1077: 1992 RA 2021 |
| 85. | Burnt Clay Bricks | Dimensions- Height | IS 1077: 1992 RA 2021 |
| 86. | Burnt Clay Bricks | Dimensions- Width | IS 1077: 1992 RA 2021 |
| 87. | Burnt Clay Bricks/ Burnt Clay Fly Ash/ Pulverised Fuel Ash Lime Bricks | Compressive Strength | IS 3495 (Part 1) : 2019 |
| 88. | Burnt Clay Bricks/ Burnt Clay Fly Ash/ Pulverised Fuel Ash Lime Bricks | Efflorescence | IS 3495 (Part 3):2019 |
| 89. | Burnt Clay Bricks/ Burnt Clay Fly Ash/ Pulverised Fuel Ash Lime Bricks | Water Absorption | IS 3495 (Part 2): 2019 |
| 90. | Concrete Paving Blocks | Dimensions | IS 15658 : 2021 |
| 91. | Concrete Paving Blocks | Compressive Strength | IS 15658 : 2021 |
| 92. | Concrete Paving Blocks | Water Absorption | IS 15658 : 2021 |

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|--------------------|---|-----------------------------------|---|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building Infrastructure & Construction Material | | |
| 93. | Concrete Paving Blocks | Abrasion Resistance | IS 15658 : 2021 |
| 94. | Concrete Paving Blocks | Aspect Ratio (L/T) | IS 15658: 2021 |
| 95. | Concrete Paving Blocks | Deviation from Squareness | IS 15658: 2021 |
| 96. | Concrete Paving Blocks | Flexural Strength / Breaking Load | IS 15658: 2021 |
| 97. | Concrete Paving Blocks | Freeze thaw Durability | IS 15658: 2021 |
| 98. | Concrete Paving Blocks | Plan Area | IS 15658: 2021 |
| 99. | Concrete Paving Blocks | Quality and Finish | IS 15658: 2021 |
| 100. | Concrete Paving Blocks | Thickness of wearing layer | IS 15658: 2021 |
| 101. | Concrete Paving Blocks | Visual Inspection | IS 15658: 2021 |
| 102. | | Dimensions | IS 2185 (Part 3) : 1984, (RA 2020) |
| 103. | Masonry Units- Autoclaved Cellular Aerated Concrete Blocks | Block Density | IS 6441 (P-1): 1972, (RA 2022) |
| 104. | | Compressive Strength | IS 6441 (Part 5) : 1972, (RA 2022) |
| 105. | | Drying Shrinkage | IS 6441 (Part 2): 1972 RA 2022 |
| 106. | Masonry Units- Autoclaved Cellular Aerated Concrete Blocks/ Thermal Insulated | Thermal Conductivity | IS 2185 (Part 3) 1994 RA 2020/ IS 3346 : 1980 RA 2022 |
| 107. | Building Lime | Compressive Strength at 14 Days | IS 6932(P-7) : 1973 RA 2019 |

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|--------------------|--|---|-------------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building Infrastructure & Construction Material | | |
| 108. | Building Lime | Compressive Strength at 28 Days | IS: 6932(P-7) : 1973 RA 2019 |
| 109. | Building Lime | Setting Time Final | IS:6932(P-11) : 1983 RA 2019 |
| 110. | Building Lime | Fineness- Residue of 2.36 mm IS Sieve | IS:6932(P-4) : 1973 RA 2019 |
| 111. | Building Lime | Fineness- Residue of 212 micron IS Sieve | IS 6932(P-4) : 1973 RA 2019 |
| 112. | Building Lime | Fineness- Residue of 300 micron IS Sieve | IS: 6932(P-4) : 1973 RA 2019 |
| 113. | Building Lime | Initial Setting Time | IS:6932(P-11) : 1983 RA 2019 |
| 114. | Building Lime | Popping & Pitting | IS: 6932(P-10) : 1973 RA 2019 |
| 115. | Building Lime | Residue of slaking- Residue on 300 micron Sieve | IS: 6932(P-3) : 1973 RA 2019 |
| 116. | Building Lime | Residue of slaking- Residue on 850 micron Sieve | IS: 6932(P-3): 1973 RA 2019 |
| 117. | Building Lime | Soundness, Le Chatelier expansion | IS: 6932(P-9) : 1973 RA 2019 |
| 118. | Building Lime | Transverse Strength | IS: 6932(P-7): 1973 RA 2019 |
| 119. | Building Lime | Volume Yield | IS: 6932(P-6): 1973 RA 2019 |
| 120. | Building Lime | Workability | IS: 6932(P-8) : 1973 RA 2019 |
| 121. | Cement (OPC/PPC/PSC) | Compressive Strength | IS 4031 (Part 6) : 1988 |

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|--------------------|--|---------------------------------------|---------------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building Infrastructure & Construction Material | | |
| 122. | Cement (OPC/PPC/PSC) | Fineness Of Blaine's Air Permeability | IS 4031 (Part 2) : 1999 |
| 123. | Cement (OPC/PPC/PSC) | Setting Time | IS 4031 (Part 5) : 1988 |
| 124. | Cement (OPC, PPC, PSC) | Consistency | IS 4031 (Part 4): 1988 RA 2019 |
| 125. | Cement (OPC, PPC, PSC) | Density | IS 4031 (part 11): 1988 RA 2019 |
| 126. | Cement (OPC, PPC, PSC) | Soundness By Autoclave Method | IS 4031 (PART3) : 1988 RA 2019 |
| 127. | Cement (OPC, PPC, PSC) | Soundness By Le-Chatelier's Method | IS 4031 (Part 3): 1988 RA 2019 |
| 128. | Cement (PPC) | Drying Shrinkage | IS 4031 (part 10): 1988 RA 2019 |
| 129. | Composite Cement | Consistency | IS 4031(P-4) : 1988 RA 2019 |
| 130. | Composite Cement | Density | IS 4031(P-11) : 1988 RA 2019 |
| 131. | Composite Cement | Drying Shrinkage | IS 4031 (P-10) : 1988 RA 2019 |
| 132. | Composite Cement | Setting Time Final | IS 4031(P-5) : 1988 RA 2019 |
| 133. | Composite Cement | Fineness of Blaine's Air Permeability | IS 4031 (P-2) : 1999 RA 2018 |
| 134. | Composite Cement | Setting Time Initial | IS 4031 (P-5) : 1988 RA 2019 |
| 135. | Composite Cement | Soundness By Autoclave Method | IS 4031 (P-3) : 1988 RA 2019 |
| 136. | Composite Cement | Soundness By Le-Chatelier's Method | IS 4031 (P-3) : 1988 RA 2019 |

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|--------------------|--|------------------------------------|----------------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building Infrastructure & Construction Material | | |
| 137. | Hydraulic Cement | Compressive Strength | IS 4031 (P-6) : 1988 RA 2019 |
| 138. | Hydraulic Cement | Consistency | IS 4031 (P-2):1999 RA 2018 |
| 139. | Hydraulic Cement | Fineness | IS 4031 (P-6):1988 RA 2019 |
| 140. | Hydraulic Cement | Setting Time (Initial) | IS 4031 (P-5) : 1988 RA 2019 |
| 141. | Hydraulic Cement | Setting Time (Final) | IS 4031 (P-5) : 1988 RA 2019 |
| 142. | Hydraulic Cement | Soundness By Le-Chatlier | IS 4031 (P-3) : 1988 RA 2019 |
| 143. | Hydraulic Cement | Soundness By Autoclave | IS 4031 (P-3) : 1988 RA 2019 |
| 144. | Hardened Concrete | Compressive Strength by ACT Method | IS 9013 : 1978 RA 2018 |
| 145. | Hardened Concrete | Compressive Strength- Cube | IS 516: 1959 RA 2018 |
| 146. | Hardened Concrete | Density | IS 516 (P-2/Sec-1): 2018 RA 2023 |
| 147. | Hardened Concrete | Drying Shrinkage | IS 516(P-6) : 2020 |
| 148. | Hardened Concrete | Flexural Strength | IS 516: 1959 RA 2018 |
| 149. | Hardened Concrete | Flexural Strength | IS 516(P-1/Sec- 1): 2021 |
| 150. | Hardened Concrete | Moisture Movement | IS 516(P-6): 2020 |
| 151. | Hardened Concrete | Split Tensile Strength | IS 516(P-1/Sec- 1): 2021 |
| 152. | Fly Ash | Compressive Strength | IS 1727 : 1967,(RA 2018) |
| 153. | Fly Ash | Drying Shrinkage | IS 1727 : 1967,(RA 2018) |

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| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building Infrastructure & Construction Material | | |
| 154. | Fly Ash | Fineness Of Blaine's Air Permeability | IS 1727 : 1967, (RA 2018) |
| 155. | Fly Ash | Lime Reactivity | IS 1727 : 1967, (RA 2018) |
| 156. | Fly Ash | Retained on 45 micron IS Sieve | IS 1727 : 1967, (RA 2018) |
| 157. | Fly Ash | Soundness By Autoclave | IS 4031 (part 3): 1988 RA 2019 |
| 158. | Fly Ash | Specific Gravity | IS 1727 : 1967, (RA 2018) |
| 159. | Abrasive Powder | Grain Size Analysis | IS 1237: 2012 RA 2022 |
| 160. | Abrasive Powder | Shape and size | IS 1237: 2012 RA 2022 |
| 161. | Abrasive Powder | Specific Gravity | IS: 1122: 2023 |
| 162. | Adhesives for Use with Ceramic, Mosaic and Stone Tiles | Open Time | IS:15477: 2019 |
| 163. | | Adjustment Times | IS:15477: 2019 |
| 164. | | Deformability | IS 15477: 2019 |
| 165. | | Shear Adhesive Strength | IS 15477: 2019 |
| 166. | | Slip Test | IS 15477: 2019 |
| 167. | | Marking | IS 15477: 2019 |
| 168. | | Tensile Adhesive Strength | IS 15477: 2019 |
| 169. | Bentonite | Density | IS: 2720 (Part-3): 1980 |

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|--------------------|---|---------------------------------|-----------------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building Infrastructure & Construction Material | | |
| 170. | Bentonite | Free Swell Index | IS: 2720 (Part- 40): 1977 RA 2021 |
| 171. | Bentonite | Gel Formation Index | IS: 6186: 1986 RA 2024 |
| 172. | Bentonite | Liquid Limit | IS: 2720 (Part-5): 1985 RA 2020 |
| 173. | Bentonite | Marsh Cone Viscosity | ASTM D6910: 2019 |
| 174. | Bitumen Emulsion | Coagulation of Emulsion | IS 8887: 2018 |
| 175. | Bitumen Emulsion | Ductility | IS 1208 : Part 1 : 2023 |
| 176. | Bitumen Emulsion | Miscibility with Water | IS 8887: 2018 |
| 177. | Bitumen Emulsion | Particle Charge | IS 8887: 2018 |
| 178. | Bitumen Emulsion | Penetration Test | IS 1203: 2022 |
| 179. | Bitumen Emulsion | Residue by Evaporation | IS 8887: 2018 |
| 180. | Bitumen Emulsion | Residue on 600-micron Sieve | IS 8887: 2018 |
| 181. | Bitumen Emulsion | Solubility In Trichloroethylene | IS 1216: 2023 |
| 182. | Bitumen Emulsion | Stability to Mixing with Cement | IS 8887: 2018 |
| 183. | Bitumen Emulsion | Storage Stability after 24h | IS 8887 : 2018 |
| 184. | Bitumen Saturated Felts and Woven Fabrics for Roofing and Waterproofing | Tensile strength, L&T Direction | ASTM D 146, IS 13826: 2004 |

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| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building Infrastructure & Construction Material | | |
| 185. | Bitumen Mix Material (BM/DBM/BC) | Bitumen Content | IRC SP-11 / ASTM D 2172: 1988 |
| 186. | | Combined Elongation and Flakiness | IS 2386 (P-1): 1963 RA 2021 |
| 187. | | Flow Value | ASTM D-6927: 2015 |
| 188. | | Impact Test | IS 2386 (P-4) : 1963 RA 2021 |
| 189. | | Los Angeles Abrasion | IS 2386 (P-4) : 1963 RA 2021 |
| 190. | | Marshall Stability | ASTM D-6927: 2015 |
| 191. | | Stripping Value | IS 6241: 2024 |
| 192. | | Theoretical Maximum Specific Gravity | ASTM D 2041 : 2019 |
| 193. | | Gradation (Grain Size Analysis) | IS 2720 (P-4) : 1985 RA 2020 |
| 194. | | Density | ASTM D 2726:2010 |
| 195. | Hardened Concrete | Compressive Strength-Core/Cube | IS 516 (Part 4): 2018 / IS 516: (P-1/S-1) 2021 |
| 196. | Concrete Cube, Core, Beam | Drying Shrinkage | IS: 516 (Part-6):2020 |
| 197. | Concrete Cube, Core, Beam | Moisture Movement | IS: 516 (Part-6): 2020 |
| 198. | Concrete Cube, Core, Beam | Rapid Chloride Ion Permeability Test | ASTM C 1202: 2017 |
| 199. | Concrete Cube, Core, Beam | Surface Water Absorption | IS: 516 (Part-2 / Sec-2): 2022 |

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| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building Infrastructure & Construction Material | | |
| 200. | Concrete Cube, Core, Beam | Water Permeability Test | IS: 516 (Part-2 / Sec-1): 2018 |
| 201. | Concrete Cube, Core, Bream | Water Permeability Test | DIN1048 (Part- 5): 1997 |
| 202. | DBM/BC/PC/BM | Bitumen Content | ASTM D2172: 2005 |
| 203. | Grout /GP-2 | Consistency | IS 4031(P-4): 1988 RA 2019 |
| 204. | Grout/GP-2 | Compressive Strength | ASTM C 109: 2002 |
| 205. | Grout/GP-2 | Setting Time Final | IS 4031(P-5) : 1988 RA 2019 |
| 206. | Grout/GP-2 | Setting Time Initial | IS 4031 (P-5) : 1988 RA 2019 |
| 207. | Grouts for Filling of Joints of Tiles and Stones | Abrasion Resistance | IS 17190: 2020 |
| 208. | | Chemical Resistance | IS 17190: 2020 |
| 209. | | Compressive Strength | IS 17190: 2020 |
| 210. | | Flexural Strength | IS 17190: 2020 |
| 211. | | Linear Shrinkage | IS 17190 : 2020 |
| 212. | | Transverse Deformation | IS 17190: 2020 |
| 213. | | Water Absorption after 240 minutes | IS 17190: 2020 |
| 214. | | Water absorption after 30 minutes | IS 17190: 2020 |
| 215. | Paving Bitumen | Absolute viscosity | IS 1206(P-3): 2021 |

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| Mechanical Testing | | | |
|--------------------|--|--|-------------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building Infrastructure & Construction Material | | |
| 216. | Paving Bitumen | Ductility Test | IS 1208 : Part 1 : 2023 |
| 217. | Paving Bitumen | Kinetmatic Viscosity | IS 1206 (P-3):2021 |
| 218. | Gypsum Plaster, Concrete And Products | Expansion on setting | IS:2542 (Part-1) (sec-9) 2023 |
| 219. | | Mechanical Resistance of set neat plaster | IS:2542 (Part-1) (sec-7) 2023 |
| 220. | | Residue on 150 micron IS sieve | IS:2542 (Part-1) (sec-8) 2023 |
| 221. | | Setting Time | IS:2542 (Part-1) (sec-3) 2023 |
| 222. | | Soundness | IS:2542 (Part-1) (sec-6) 2023 |
| 223. | | Transverse Strength | IS:2542 (Part-1) (sec-4) 2023 |
| 224. | | Softening point | IS 1205: 2022 |
| 225. | | Flash Point | IS 1209: 2021 |
| 226. | Polymer and Rubber Modified Bitumen CRMB/PMB/NRMB | Elastic Recovery of Half thread in Ductilometer | IS 15462: 2019 |
| 227. | | Elastic Recovery of Half Thread in Ductilometer After Thin Film Oven | IS 15462: 2019 |
| 228. | | Penetration | IS 1203: 2022 |
| 229. | | Separation, Difference in Softening Point | IS 15462: 2019 |

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|--------------------|--|--------------------------------------|----------------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building Infrastructure & Construction Material | | |
| 230. | Polymer and Rubber Modified Bitumen CRMB/PMB/NRMB | Solubility In Trichloroethylee | IS 1216: 2023 |
| 231. | Polymer and Rubber Modified Bitumen CRMB/PMB/NRMB | Viscosity at 150 Degree Celsius | IS 1206 (Part 3):2021 |
| 232. | Precast Concrete Manhole Cover and Frame | Dimensions | IS 12592 : 2002 RA 2018 |
| 233. | Precast Concrete Manhole Cover and Frame | Load Test | IS 12592: 2002 RA 2018 |
| 234. | Water Proofing Compound | Compressive Strength | IS: 4031 (Part-6): 1988 RA 2019 |
| 235. | Water Proofing Compound | Setting Time Final | IS: 4031 (Part-5): 1988 RA 2019 |
| 236. | Water Proofing Compound | Setting Time Initial | IS: 4031 (Part-5): 1988 RA 2019 |
| 237. | Water Proofing Compound | Chloride content | IS: 6925 – 1973 RA 2018 |
| 238. | Water Proofing Compound | Water Permeability Test | IS: 2645: 2003 RA 2022 |
| 239. | White Cement Based Polymeric Putty | Cement Content | Annex B of IS: 5410-2013 RA 2018 |
| 240. | | Degree of Whiteness | Annex B of IS: 8042 - 2015 |
| 241. | | Setting Time Final | IS 17545: 2021 |
| 242. | | Setting Time Initial | IS 17454: 2021 |
| 243. | | Polymer Content | IS 17545: 2021 |
| 244. | | Tensile adhesion Strength at 14 Days | IS 17545: 2021 |

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|--------------------|--|------------------------------|------------------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building Infrastructure & Construction Material | | |
| 245. | White Cement Based Polymeric Putty | Water Retentivity | IS 17545: 2021 |
| 246. | Micro Silica/Silica Fume | Compressive Strength | IS 1727: 1967, RA 2018 |
| 247. | Micro Silica/Silica Fume | Sieve Analysis at 45 Micron | IS 1727 : 1967,RA 2018 |
| 248. | Micro Silica/Silica Fume | Specific surface | IS 15388:2003 RA 2022 (BET method) |
| 249. | Cement Concrete Flooring Tiles | Dimensions (Length) | IS 1237 : 2012,(RA 2022) |
| 250. | | Dimensions (Width) | IS 1237 : 2012,(RA 2022) |
| 251. | | Dimensions (Thickness) | IS 1237: 2012, (RA 2022) |
| 252. | | Flatness of the Tile Surface | IS 1237: 2012, (RA 2022) |
| 253. | | Perpendicularity | IS 1237: 2012, (RA 2022) |
| 254. | | Resistance to wear | IS 1237: 2012, (RA 2022) |
| 255. | | Straightness | IS 1237: 2012, (RA 2022) |
| 256. | | Thickness Of Wearing Layer | IS 1237: 2012, (RA 2022) |
| 257. | | Water Absorption | IS 1237: 2012, (RA 2022) |
| 258. | | Wet Transverse Strength | IS 1237: 2012, (RA 2022) |
| 259. | Ceramic Tiles (Vitrified/Glazed/Unglazed) | Dimensions | IS 13630 (part 1): 2019 |

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|--------------------|--|--|----------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building Infrastructure & Construction Material | | |
| 260. | Ceramic Tiles (Vitrified/Glazed/Unglazed) | Modulus Of Rupture | IS 13630 (Part 6) : 2019 |
| 261. | Ceramic Tiles (Vitrified/Glazed/Unglazed) | Water Absorption | IS 13630 (Part 2) : 2019 |
| 262. | Ceramic Tiles | Breaking Strength | IS 13630 (Part 6): 2019 |
| 263. | Ceramic Tiles | Crazing Resistance of Glazed Tile | IS: 13630 (Part- 9): 2019 |
| 264. | Ceramic Tiles | Dimensions (Length, Width and Thickness) | IS 13630 (part 1): 2019 |
| 265. | Ceramic Tiles | Impact Resistance Test | IS: 13630 (Part-14): 2019 |
| 266. | Ceramic Tiles | Modulus of Rupture | IS 13630 (Part6): 2019 |
| 267. | Ceramic Tiles | Moisture Expansion using Boiling Water | IS: 13630 (Part-3): 2019 |
| 268. | Ceramic Tiles | Scratch Hardness | IS 13630 (Part13): 2019 |
| 269. | Ceramic Tiles | Water Absorption | IS 13630 (Part2): 2019 |
| 270. | Chequered Cement Concrete Tiles | Resistance to wear | IS 13801 : 2013, (RA 2018) |
| 271. | | Dimensions (Thickness) | IS 13801 : 2013, (RA 2018) |
| 272. | | Dimensions (Length) | IS 13801 : 2013, (RA 2018) |
| 273. | | Dimensions (Width) | IS 13801 : 2013, (RA 2018) |
| 274. | | Flatness of the Tile Surface | IS 13801 : 2013, (RA 2018) |

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| Mechanical Testing | | | |
|--------------------|--|--------------------------------------|--|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building Infrastructure & Construction Material | | |
| 275. | Chequered Cement Concrete Tiles | Perpendicularity | IS 13801: 2013, (RA 2018) |
| 276. | | Straightness | IS 13801 : 2013, (RA 2018) |
| 277. | | Thickness Of Wearing Layer | IS 13801 : 2013, (RA 2018) |
| 278. | | Water Absorption | IS 13801 : 2013, (RA 2018) |
| 279. | | Wet Transverse Strength | IS 13801 : 2013, (RA 2018) |
| 280. | Gypsum Plaster Boards – Plain & Coated/Laminated | Dimension- Length/Width/Thickness | IS 2095 (P-1): 2023 & IS 2095 (P-2) : 2022 |
| 281. | Gypsum Plaster Boards – Plain & Coated/Laminated | Density | IS 2095 (P-1): 2023 |
| 282. | Gypsum Plaster Boards – Plain & Coated/Laminated | Flexural Breaking Load | IS 2095 (P-1): 2023 |
| 283. | Gypsum Plaster Boards – Plain | Impact resistance | IS 2095 (P-1): 2023 |
| 284. | Gypsum Plaster Boards – Plain | Surface Hardness | IS 2095 (P-1): 2023 |
| 285. | Gypsum Plaster Boards – Plain | Water Absorption | IS 2095 (P-1): 2023 |
| 286. | Gypsum Plaster Boards – Plain & Coated/Laminated | Finish | IS 2095 (P-1): 2023 & IS 2095 (P-2) : 2022 |
| 287. | Safety Glass (Flat/Toughened) | Dimension & Squareness | IS: 2553 (P-1) 2018 |
| 288. | Safety Glass (Flat/Toughened) | Thickness | IS: 17004 – 2018 RA 2024 |
| 289. | Safety Glass (Flat/Toughened) | Fragmentation Test | IS: 17004 – 2018 RA 2024 |

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|--------------------|--|--------------------------|--|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building Infrastructure & Construction Material | | |
| 290. | Safety Glass (Flat/Toughened) | Flatness | IS: 17004 – 2018 RA 2024 |
| 291. | Safety Glass (Flat/Toughened) | Resistance to shock | IS: 17004 – 2018 RA 2024 |
| 292. | Concrete Hollow/Solid Block | Compressive Strength | IS 2185 (P-1) 2005 RA 2020 (Annex-D) |
| 293. | Concrete Hollow/Solid Block | Density | IS 2185 (P-1) 2005 RA 2020 (Annex-C) |
| 294. | Concrete Hollow/Solid Block | Dimension-Height | IS 2185(P-1), 2005 RA 2020 Annex-C |
| 295. | Concrete Hollow/Solid Block | Dimension-Length | IS 2185(P-1) 2005 RA 2020 Annex-C |
| 296. | Concrete Hollow/Solid Block | Dimension-Width | IS 2185(P-1) 2005 RA 2020 Annex-C |
| 297. | Concrete Hollow/Solid Block | Water Absorption | IS 2185 (P-1) 2005 RA 2020 Annex-E |
| 298. | Concrete Fresh (Design Mix) | Slump | IS 9103 – 1999 RA 2018, IS 1199 : 2018 |
| 299. | Concrete Fresh (Design Mix) | Compressive Strength | IS 516 P-1/Sec-1: 2021 |
| 300. | Concrete Fresh (Design Mix) | Compressive Strength | IS 516: 1959, (RA 2018) |
| 301. | AAC Block Adhesive | Bulk Density | IS 2386 (P-3): 1963 RA 2021 |
| 302. | AAC Block Adhesive | Compressive Strength | IS: 2250 1981 RA 2020 |
| 303. | AAC Block Adhesive | Open Time | IS 15477: 2019 |
| 304. | AAC Block Adhesive | Split Tensile Strength | ASTM C-1660 |
| 305. | Fine Aggregate | Fineness Modulus | ASTM C -136 (Cl.9.2) |

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|--------------------|--|--|------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building Infrastructure & Construction Material | | |
| 306. | Sewer Brick | Dimension height | IS 4885: 1988 RA 2020 |
| 307. | Sewer Brick | Dimension length | IS 4885: 1988 RA 2020 |
| 308. | Sewer Brick | Dimension width | IS 4885: 1988 RA 2020 |
| 309. | Sewer Brick | Efflorescence | IS 3495 (P-3) 2019 |
| 310. | Sewer Brick | Water absorption | IS 3495 (P-2) 2019 |
| 311. | Sewer Brick | Compressive strength | IS 3495 (P-1) 2019 |
| 312. | Unglazed ceramic vitreous acid resistance tile | Breaking strength | IS 4457 – 2007 RA 2022 |
| 313. | Unglazed ceramic vitreous acid resistance tile | Dimension (length, width, thickness) | IS 4457 – 2007 RA 2022 |
| 314. | Unglazed ceramic vitreous acid resistance tile | Modulus of rupture | IS 4457 – 2007 RA 2022 |
| 315. | Unglazed ceramic vitreous acid resistance tile | Water absorption | IS 4457 – 2007 RA 2022 |
| 316. | Unglazed ceramic vitreous acid resistance tile | Resistance to chemicals | IS 4457 – 2007 RA 2022 |
| 317. | Unglazed ceramic vitreous acid resistance tile | Resistance to concentrated HNO ₃ & H ₂ SO ₄ | IS 4457 – 2007 RA 2022 |
| 318. | Kerb Stone | Bending strength | IS 5758 - 2020 |
| 319. | Kerb Stone | Dimensions | IS 5758 - 2020 |
| 320. | Kerb Stone | Water absorption | IS 5758 - 2020 |

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|--------------------|--|------------------------------------|-------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building Infrastructure & Construction Material | | |
| 321. | Sanitary Appliances (WC Pans, Wash Basins, Laboratory Sinks and Drinking Fountains, Flushing Cisterns and Covers, Bidets, Squatting Pans, Urinals, Partition Plates, Pedestals, Short Pedestals and Accessories) | Thickness | IS 2556 (Part 1) : 2021 |
| 322. | | Tolerances | IS 2556 (Part 1) : 2021 |
| 323. | | Water Absorption | IS 2556 (Part 1) : 2021 |
| 324. | | Chemical Resistance | IS 2556 (Part 1) : 2021 |
| 325. | | Resistance to Staining and Burning | IS 2556 (Part 1) : 2021 |
| 326. | Sanitary Appliances (Wash Basins) | Patterns and Sizes | IS 2556 (Part 4) : 2004 |
| 327. | | Dimensions and Tolerances | IS 2556 (Part 4) : 2004 |



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| Mechanical Testing | | | |
|--------------------|---|---|------------------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Soil & Rock | | |
| 1. | Soil | California Bearing Ratio | IS 2720 (Part 16): 1987 RA 2021 |
| 2. | | Grain Size Analysis (63 to 0.075 mm size) | IS 2720 (Part 4): 1985 RA 2020 |
| 3. | | Heavy Compaction (MDD) | IS 2720 (Part 8): 1983 RA 2020 |
| 4. | | Heavy Compaction (OMC) | IS 2720 (Part 8): 1983 RA 2020 |
| 5. | | Light Compaction (MDD) | IS 2720 (Part 7): 1980 (RA 2021) |
| 6. | | Light Compaction (OMC) | IS 2720 (Part 7) :1980, (RA 2021) |
| 7. | | Liquid Limit | IS 2720 (Part 5) :1985 RA 2020 |
| 8. | | Plastic Limit | IS 2720 (Part 5) :1985 RA 2020 |
| 9. | | Specific Gravity | IS 2720 (Part3/Sec1): 1980 RA 2021 |
| 10. | | Unconfined Compressive Strength | IS 2720 (Part-10):1991 RA 2020 |
| 11. | | Water Content by Oven Drying | IS 2720 (Part 2) :1983 RA 2020 |
| 12. | Soil, Fly Ash, GSB, WBM, WMM, Blanketing Material | Free Swell Index | IS: 2720 (Part-40): 1977 RA 2021 |
| 13. | Bentonite | Moisture Content | IS 6186: 1986 RA 2024 |
| 14. | | Sand Content | IS 6186: 1986 RA 2024 |
| 15. | | Swelling Power | IS 6186: 1986 RA 2024 |

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| Mechanical Testing | | | | |
|--------------------|--|--|--|--------------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method | |
| | Soil & Rock | | | |
| 16. | GSB (Granular Sub-Base), WMM (Wet Mix Macadam), WBM (Water Bound Macadam), and CRM (Crumb Rubber Modified Bitumen) | Flakiness Index | IS 2386 (P-1): 1963, RA 2021 | |
| 17. | | Grain Size Analysis | IS 2386 (P-1) : 1963, RA 2021 | |
| 18. | | Impact Value | IS 2386 (P-4) : 1963, RA 2021 | |
| 19. | | Liquid Limit | IS 2720 (P-5): 1985, RA 2020 | |
| 20. | | Loss Angles Abrasion Value | IS 2386 (P-4) : 1963, RA 2021 | |
| 21. | | Maximum Dry Density | IS 2720 (P-8) : 1980, RA 2020 | |
| 22. | | Optimum Moisture Content | IS 2720 (P-8) : 1980, RA 2020 | |
| 23. | | Plastic Limit | IS 2720(P-5) : 1985, RA 2020 | |
| 24. | | Water Absorption | IS 2386 (P-3) : 1963, RA 2021 | |
| 25. | | C.B.R Value | IS 2720 (P-16) : 1987, (RA 2021) | |
| 26. | | Elongation Index (Max. size 50 mm) | IS 2386 (P-1) : 1963, RA 2021 | |
| 27. | | Soil | Dry Density of Soil (By Core Cutter method) | IS 2720 (P-29) : 1975, RA 2020 |
| 28. | | SOIL/GSB/WMM/WBM | Dry Density of Soil (By Sand replacement Method) | IS 2720 (P-28): 1974, RA 2020 |
| 29. | | Natural Building Stone (Marble/Granite/Stone) | Apparent Porosity | IS 1124: 1974, (RA 2017) |
| 30. | Compressive Strength | | IS 1121 (Part 1): 2023 | |
| 31. | Dry Density | | IS 13030: 1991, RA 2021 | |
| 32. | Moh's Hardness | | IS 13630 (P-13):2019 | |

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| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Soil & Rock | | |
| 33. | Natural Building Stone (Marble/Granite/Stone) | Moisture Content | IS 13030: 1991, RA 2021 |
| 34. | | Specific Gravity | IS 1124: 1974 RA 2017 |
| 35. | | Water Absorption / Moisture Absorption | IS 1124: 1974, (RA 2017) |
| 36. | Rock / Natural Stone | Durability | IS: 1126: 2013 RA 2023 |
| 37. | | Resistance to wear | IS: 1706:2024 |
| 38. | | Transverse Strength | IS: 1122 (Part-2): 2013 |



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|-------------------------|--|--|---------------------------|
| Sl. No. | Product(s)/Material of Test | Specific Tests Performed | Test Method |
| | Building Materials - Reinforced Concrete Structures | | |
| 1. | Concrete | Ultrasonic Pulse Velocity | IS 516 (P-5/Sec-1): 2018 |
| 2. | Hardened Concrete | Crack Depth by Ultrasonic Pulse Velocity | IS:516(Part-5/Sec-1) 2018 |
| 3. | Reinforcement Concrete | Rebound Hammer | IS 516 (P-5/Sec 4): 2020 |

