

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Certificate of Accreditation

**Bureau of Indian Standards**

**Patna Branch Laboratory**

Pataliputra Industrial Estate, Behind P & M Mall,  
Patna-800013, Bihar, 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/2025/0146**

Valid from: 14 October 2025

Valid until: 13 October 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            |
|                  | <b>Metals &amp; Alloys</b>                                                           |                          |                        |
| 1.               | High Strength Deformed Steel Bars and Wires For Concrete re-enforcement              | Carbon                   | IS 228 (PART 1): 1987  |
| 2.               |                                                                                      | Sulphur                  | IS 228 (Part 9) : 1989 |
| 3.               |                                                                                      | Phosphorous              | IS 228 (Part 3) : 2024 |
| 4.               |                                                                                      | Manganese                | IS 228 (Part 2): 2024  |
| 5.               | Unalloyed and Alloyed Steel Ingot and Semi-finished Products for Re-Rolling Purposes | Carbon                   | IS 228 (PART 1): 1987  |
| 6.               |                                                                                      | Sulphur                  | IS 228 (Part 9) : 1989 |
| 7.               |                                                                                      | Phosphorous              | IS 228 (Part 3) : 2024 |
| 8.               |                                                                                      | Manganese                | IS 228 (Part 2) : 2024 |
| 9.               |                                                                                      | Silicon                  | IS 228 (Part 8) : 1989 |
| 10.              |                                                                                      | Nitrogen                 | IS 228 (Part 23): 2003 |
| 11.              | Steel tubes for mechanical and general engineering purposes                          | Sulphur                  | IS 228 (Part 9) : 1989 |
| 12.              |                                                                                      | Phosphorous              | IS 228 (Part 3) : 2024 |
| 13.              | Hot Rolled Medium And High Tensile Structural Steel                                  | Carbon                   | IS 228 (PART 1): 1987  |
| 14.              |                                                                                      | Sulphur                  | IS 228 (Part 9) : 1989 |

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| Chemical Testing |                                                                      |                          |                         |
|------------------|----------------------------------------------------------------------|--------------------------|-------------------------|
| Sl. No.          | Product(s)/Material of Test                                          | Specific Tests Performed | Test Method             |
|                  | <b>Metals &amp; Alloys</b>                                           |                          |                         |
| 15.              | Hot Rolled Medium And High Tensile Structural Steel                  | Phosphorous              | IS 228 (Part 3) : 2024  |
| 16.              |                                                                      | Manganese                | IS 228 (Part 2 ) : 2024 |
| 17.              |                                                                      | Nitrogen                 | IS 228 (Part 23) : 2003 |
| 18.              |                                                                      | Silicon                  | IS 228 (Part 8) : 1989  |
| 19.              | Hollow Steel Sections for Structural Use                             | Carbon                   | IS 228 (PART 1): 1987   |
| 20.              |                                                                      | Sulphur                  | IS 228 (Part 9) : 1989  |
| 21.              |                                                                      | Phosphorous              | IS 228 (Part 3) : 2024  |
| 22.              |                                                                      | Manganese                | IS 228 (Part 2 ) : 2024 |
| 23.              |                                                                      | Nitrogen                 | IS 228 (Part 23) : 2003 |
| 24.              | Steel Tubes For Structural Purposes                                  | Carbon                   | IS 228 (PART 1): 1987   |
| 25.              |                                                                      | Sulphur                  | IS 228 (Part 9) : 1989  |
| 26.              |                                                                      | Phosphorous              | IS 228 (Part 3) : 2024  |
| 27.              |                                                                      | Manganese                | IS 228 (Part 2 ) : 2024 |
| 28.              | Mild steel wire rod for general engineering purposes – Specification | Carbon                   | IS 228 (PART 1): 1987   |



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|------------------|----------------------------------------------------------------------|--------------------------|-------------------------|
| Sl. No.          | Product(s)/Material of Test                                          | Specific Tests Performed | Test Method             |
|                  | <b>Metals &amp; Alloys</b>                                           |                          |                         |
| 29.              | Mild steel wire rod for general engineering purposes – Specification | Sulphur                  | IS 228 (Part 9) : 1989  |
| 30.              |                                                                      | Phosphorous              | IS 228 (Part 3) : 2024  |
| 31.              |                                                                      | Manganese                | IS 228 (Part 2 ) : 2024 |
| 32.              | Mild Steel Wire For General Engineering                              | Carbon                   | IS 228 (PART 1): 1987   |
| 33.              |                                                                      | Sulphur                  | IS 228 (Part 9) : 1989  |
| 34.              |                                                                      | Phosphorous              | IS 228 (Part 3) : 2024  |
| 35.              |                                                                      | Manganese                | IS 228 (Part 2 ) : 2024 |
| 36.              | Steel Tubes Tubulars and Other Wrought Steel Fittings                | Carbon                   | IS 228 (PART 1): 1987   |
| 37.              |                                                                      | Sulphur                  | IS 228 (Part 9) : 1989  |
| 38.              |                                                                      | Phosphorous              | IS 228 (Part 3) : 2024  |
| 39.              |                                                                      | Nitrogen                 | IS 228 (Part 23) : 2003 |
| 40.              |                                                                      | Manganese                | IS 228 (Part 2 ) : 2024 |
| 41.              | Structural Steel (Ordinary Quality)                                  | Carbon                   | IS 228 (PART 1): 1987   |
| 42.              |                                                                      | Sulphur                  | IS 228 (Part 9) : 1989  |
| 43.              |                                                                      | Phosphorous              | IS 228 (Part 3) : 2024  |

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| Chemical Testing |                                                                      |                          |                         |
|------------------|----------------------------------------------------------------------|--------------------------|-------------------------|
| Sl. No.          | Product(s)/Material of Test                                          | Specific Tests Performed | Test Method             |
|                  | <b>Metals &amp; Alloys</b>                                           |                          |                         |
| 44.              | Structural Steel (Ordinary Quality)                                  | Manganese                | IS 228 (Part 2) : 2024  |
| 45.              |                                                                      | Nitrogen                 | IS 228 (Part 23) : 2003 |
| 46.              |                                                                      | Silicon                  | IS 228 (Part 8) : 1989  |
| 47.              | Steel pipes for water and sewage (168.3 To 2540 Mm Outside Diameter) | Carbon                   | IS 228 (PART 1): 1987   |
| 48.              |                                                                      | Sulphur                  | IS 228 (Part 9) : 1989  |
| 49.              |                                                                      | Phosphorous              | IS 228 (Part 3) : 2024  |
| 50.              |                                                                      | Manganese                | IS 228 (Part 2) : 2024  |
| 51.              |                                                                      | Nitrogen                 | IS 228 (Part 23) : 2003 |
| 52.              |                                                                      | Silicon                  | IS 228 (Part 8) : 1989  |
| 53.              |                                                                      | Carbon                   | IS 228 (PART 1): 1987   |
| 54.              | Mild steel for metal arc welding electrodes                          | Sulphur                  | IS 228 (Part 9) : 1989  |
| 55.              |                                                                      | Phosphorous              | IS 228 (Part 3) : 2024  |
| 56.              |                                                                      | Manganese                | IS 228 (Part 2) : 2024  |
| 57.              |                                                                      | Silicon                  | IS 228 (Part 8) : 1989  |



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| Chemical Testing |                                                                                                 |                            |                         |
|------------------|-------------------------------------------------------------------------------------------------|----------------------------|-------------------------|
| Sl. No.          | Product(s)/Material of Test                                                                     | Specific Tests Performed   | Test Method             |
|                  | <b>Metals &amp; Alloys</b>                                                                      |                            |                         |
| 58.              | Cold Reduced Low Carbon Steel Sheet and Strip                                                   | Carbon                     | IS 228 (PART 1): 1987   |
| 59.              |                                                                                                 | Sulphur                    | IS 228 (Part 9) : 1989  |
| 60.              |                                                                                                 | Phosphorous                | IS 228 (Part 3) : 2024  |
| 61.              |                                                                                                 | Nitrogen                   | IS 228 (Part 23) : 2003 |
| 62.              |                                                                                                 | Manganese                  | IS 228 (Part 2 ) : 2024 |
| 63.              | Steels for cold heading cold extrusion applications: Part 1 wrought carbon and low alloy steels | Carbon                     | IS 228 (PART 1): 1987   |
| 64.              |                                                                                                 | Sulphur                    | IS 228 (Part 9) : 1989  |
| 65.              |                                                                                                 | Phosphorous                | IS 228 (Part 3) : 2024  |
| 66.              |                                                                                                 | Manganese                  | IS 228 (Part 2 ) : 2024 |
| 67.              |                                                                                                 | Nitrogen                   | IS 228 (Part 23) : 2003 |
| 68.              |                                                                                                 | Silicon                    | IS 228 (Part 8) : 1989  |
| 69.              | Galvanized Steel                                                                                | Mass of Zinc Coating       | IS 6745:1972            |
| 70.              | Barbed Wire for Fencing                                                                         | Uniformity of Zinc Coating | IS 2633:1986            |
| 71.              | Steel Tubes for Idlers For Belt Conveyors – Specification;                                      | Sulphur                    | IS 228 (Part 9) : 1989  |
| 72.              |                                                                                                 | Phosphorous                | IS 228 (Part 3) : 2024  |
| 73.              | Steel Butt Hinges                                                                               | Carbon                     | IS 228 (PART 1): 1987   |

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| Chemical Testing |                                                                                                                            |                          |                         |
|------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------|
| Sl. No.          | Product(s)/Material of Test                                                                                                | Specific Tests Performed | Test Method             |
|                  | <b>Metals &amp; Alloys</b>                                                                                                 |                          |                         |
| 74.              | Steel Tubes for Idlers<br>For Belt Conveyors –<br>Specification,<br>Steel Butt Hinges                                      | Sulphur                  | IS 228 (Part 9) : 1989  |
| 75.              |                                                                                                                            | Phosphorous              | IS 228 (Part 3) : 2024  |
| 76.              |                                                                                                                            | Nitrogen                 | IS 228 (Part 23) : 2003 |
| 77.              |                                                                                                                            | Manganese                | IS 228 (Part 2) : 2024  |
| 78.              | Hot rolled carbon steel sheet<br>plate and strip – Specification                                                           | Carbon                   | IS 228 (PART 1): 1987   |
| 79.              |                                                                                                                            | Sulphur                  | IS 228 (Part 9) : 1989  |
| 80.              |                                                                                                                            | Phosphorous              | IS 228 (Part 3) : 2024  |
| 81.              |                                                                                                                            | Manganese                | IS 228 (Part 2) : 2024  |
| 82.              |                                                                                                                            | Nitrogen                 | IS 228 (Part 23) : 2003 |
| 83.              |                                                                                                                            | Silicon                  | IS 228 (Part 8) : 1989  |
| 84.              | Hot rolled steel plate (Up To 6<br>Mm) sheet and strip for the<br>manufacture of low-pressure<br>liquefiable gas cylinders | Carbon                   | IS 228 (PART 1): 1987   |
| 85.              |                                                                                                                            | Sulphur                  | IS 228 (Part 9) : 1989  |
| 86.              |                                                                                                                            | Phosphorous              | IS 228 (Part 3) : 2024  |
| 87.              |                                                                                                                            | Manganese                | IS 228 (Part 2) : 2024  |
| 88.              |                                                                                                                            | Nitrogen                 | IS 228 (Part 23) : 2003 |
| 89.              |                                                                                                                            | Silicon                  | IS 228 (Part 8) : 1989  |



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| Chemical Testing |                                                                                                                              |                          |                         |
|------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------|
| Sl. No.          | Product(s)/Material of Test                                                                                                  | Specific Tests Performed | Test Method             |
|                  | <b>Metals &amp; Alloys</b>                                                                                                   |                          |                         |
| 90.              | Hot rolled carbon steel strip for cold rolling purposes – Specification                                                      | Carbon                   | IS 228 (PART 1): 1987   |
| 91.              |                                                                                                                              | Sulphur                  | IS 228 (Part 9) : 1989  |
| 92.              |                                                                                                                              | Phosphorous              | IS 228 (Part 3) : 2024  |
| 93.              |                                                                                                                              | Manganese                | IS 228 (Part 2 ) : 2024 |
| 94.              |                                                                                                                              | Nitrogen                 | IS 228 (Part 23) : 2003 |
| 95.              |                                                                                                                              | Silicon                  | IS 228 (Part 8) : 1989  |
| 96.              | Hot Rolled Steel Flat Products for Structural Forming and Flanging Purposes                                                  | Carbon                   | IS 228 (PART 1): 1987   |
| 97.              |                                                                                                                              | Sulphur                  | IS 228 (Part 9) : 1989  |
| 98.              |                                                                                                                              | Phosphorous              | IS 228 (Part 3) : 2024  |
| 99.              |                                                                                                                              | Manganese                | IS 228 (Part 2 ) : 2024 |
| 100.             |                                                                                                                              | Nitrogen                 | IS 228 (Part 23) : 2003 |
| 101.             |                                                                                                                              | Silicon                  | IS 228 (Part 8) : 1989  |
| 102.             | Hot Rolled Steel Plate for Pressure Vessel for Intermediate and High Temperature Service Including Boilers Flat Products for | Carbon                   | IS 228 (PART 1): 1987   |
| 103.             |                                                                                                                              | Sulphur                  | IS 228 (Part 9) : 1989  |
| 104.             |                                                                                                                              | Phosphorous              | IS 228 (Part 3) : 2024  |
| 105.             |                                                                                                                              | Manganese                | IS 228 (Part 2 ) : 2024 |

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| Chemical Testing |                                                           |                          |                         |
|------------------|-----------------------------------------------------------|--------------------------|-------------------------|
| Sl. No.          | Product(s)/Material of Test                               | Specific Tests Performed | Test Method             |
|                  | <b>Metals &amp; Alloys</b>                                |                          |                         |
| 106.             | Structural Forming and Flanging Purposes                  | Silicon                  | IS 228 (Part 8) : 1989  |
| 107.             | Specification for shovels: Part 1 general purpose shovels | Sulphur                  | IS 228 (Part 9) : 1989  |
| 108.             |                                                           | Phosphorous              | IS 228 (Part 3) : 2024  |
| 109.             | Galvanized Steel Sheets (Plain And corrugated)            | Carbon                   | IS 228 (PART 1): 1987   |
| 110.             |                                                           | Sulphur                  | IS 228 (Part 9) : 1989  |
| 111.             |                                                           | Phosphorous              | IS 228 (Part 3) : 2024  |
| 112.             |                                                           | Manganese                | IS 228 (Part 2 ) : 2024 |
| 113.             |                                                           | Nitrogen                 | IS 228 (Part 23) : 2003 |
| 114.             |                                                           | Silicon                  | IS 228 (Part 8) : 1989  |
| 115.             | Hot - Rolled steel strip for welded tubes and pipes       | Carbon                   | IS 228 (PART 1): 1987   |
| 116.             |                                                           | Sulphur                  | IS 228 (Part 9) : 1989  |
| 117.             |                                                           | Phosphorous              | IS 228 (Part 3) : 2024  |
| 118.             |                                                           | Manganese                | IS 228 (Part 2 ) : 2024 |
| 119.             |                                                           | Nitrogen                 | IS 228 (Part 23) : 2003 |
| 120.             |                                                           | Silicon                  | IS 228 (Part 8) : 1989  |
| 121.             | Gold                                                      | Fineness                 | IS 1418:2009            |

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| Chemical Testing |                             |                                                          |                                 |
|------------------|-----------------------------|----------------------------------------------------------|---------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed                                 | Test Method                     |
|                  | Water                       |                                                          |                                 |
| 1.               | Packaged Drinking Water     | Description                                              | IS 14543: 2024                  |
| 2.               |                             | Colour                                                   | Cl. 4 IS 3025 (Part 4) : 2021   |
| 3.               |                             | Odour                                                    | IS 3025 (Part 5): 2018          |
| 4.               |                             | Taste                                                    | IS 3025 (Part 8) : 2023         |
| 5.               |                             | Turbidity                                                | IS 3025 (Part 10) : 2023        |
| 6.               |                             | Total dissolved solids                                   | IS 3025 (Part 16) : 2023        |
| 7.               |                             | pH                                                       | IS 3025 (Part 11) : 2022        |
| 8.               |                             | Nitrate (as NO <sub>3</sub> )                            | IS 3025 (Part 75) : 2022        |
| 9.               |                             | Nitrite (as NO <sub>2</sub> )                            | Cl 7, IS 3025 (Part 34) : 2023  |
| 10.              |                             | Fluoride (as F)                                          | IS 3025 (Part 75) : 2022        |
| 11.              |                             | Chloride (as Cl)                                         | IS 3025 (Part 75) : 2022        |
| 12.              |                             | Sulphate (as SO <sub>4</sub> )                           | IS 3025 (Part 75) : 2022        |
| 13.              |                             | Alkalinity                                               | IS 3025 (Part 23) : 2023        |
| 14.              |                             | Calcium (as Ca)                                          | Cl. 5, IS 3025 (Part 40) : 2024 |
| 15.              |                             | Residual free chloride                                   | Cl. 7, IS 3025 (Part 26) : 2021 |
| 16.              |                             | Phenolic compounds (as C <sub>6</sub> H <sub>5</sub> OH) | Cl 6, IS 3025 (Part 43) : 2022  |

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| Chemical Testing |                                |                                            |                                   |
|------------------|--------------------------------|--------------------------------------------|-----------------------------------|
| Sl. No.          | Product(s)/Material of Test    | Specific Tests Performed                   | Test Method                       |
|                  | <b>Water</b>                   |                                            |                                   |
| 17.              | Packaged Drinking Water        | Mineral oil                                | CI 6, IS 3025 (Part 39) : 2021    |
| 18.              |                                | Anionic surface-active agents<br>(as MBAS) | Annex K of IS 134281) or IS 15303 |
| 19.              |                                | Sulphide (as H <sub>2</sub> S)             | IS 3025 (Part 29), CI 7           |
| 20.              | Packaged Natural Mineral Water | Description                                | IS 13428 : 2024                   |
| 21.              |                                | Colour                                     | Cl. 4 of IS 3025 (Part 4) : 2021  |
| 22.              |                                | Odour                                      | IS 3025 (Part 5) : 2018           |
| 23.              |                                | Taste                                      | IS 3025 (Part 8) : 2023           |
| 24.              |                                | Turbidity                                  | IS 3025 (Part 10) : 2023          |
| 25.              |                                | Total dissolved solids                     | IS 3025 (Part 16) : 2023          |
| 26.              |                                | pH                                         | IS 3025 (Part 11) : 2022          |
| 27.              |                                | Nitrate (as NO <sub>3</sub> )              | IS 3025 (Part 75) : 2022          |
| 28.              |                                | Nitrite (as NO <sub>2</sub> )              | CI 7 of IS 3025 (Part 34) : 2023  |
| 29.              |                                | Sulphide (as H <sub>2</sub> S)             | CI 7 of IS 3025 (Part 29)         |



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|------------------|------------------------------------|---------------------------------|--------------------------|
| Sl. No.          | Product(s)/Material of Test        | Specific Tests Performed        | Test Method              |
|                  | Residues and contaminants in Water |                                 |                          |
| 1.               | Packaged Drinking Water            | Barium                          | IS 3025 (Part 2) : 2019  |
| 2.               |                                    | Copper                          | IS 3025 (Part 2) : 2019  |
| 3.               |                                    | Iron (as Fe)                    | IS 3025 (Part 2) : 2019  |
| 4.               |                                    | Manganese (as Mn)               | IS 3025 (Part 2) : 2019  |
| 5.               |                                    | Zinc (as Zn)                    | IS 3025 (Part 2) : 2019  |
| 6.               |                                    | Silver (as Ag)                  | IS 3025 (Part 2) : 2019  |
| 7.               |                                    | Aluminium (as Al)               | IS 3025 (Part 2) : 2019  |
| 8.               |                                    | Selenium (as Se)                | IS 3025 (Part 2) : 2019  |
| 9.               |                                    | Magnesium (as Mg)               | IS 3025 (Part 2) : 2019  |
| 10.              |                                    | Sodium (as Na)                  | IS 3025 (Part 2) : 2019  |
| 11.              |                                    | Antimony (as Sb)                | IS 3025 (Part 2) : 2019  |
| 12.              |                                    | Borates (as B)                  | IS 3025 (Part 2) : 2019  |
| 13.              |                                    | Bromates (as BrO <sub>3</sub> ) | IS 3025 (Part 67) : 2018 |
| 14.              |                                    | Mercury (as Hg)                 | IS 3025 (Part 2) : 2019  |
| 15.              |                                    | Cadmium (as Cd)                 | IS 3025 (Part 2) : 2019  |
| 16.              |                                    | Arsenic (as As)                 | IS 3025 (Part 2) : 2019  |

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| Chemical Testing |                                    |                          |                                  |
|------------------|------------------------------------|--------------------------|----------------------------------|
| Sl. No.          | Product(s)/Material of Test        | Specific Tests Performed | Test Method                      |
|                  | Residues and contaminants in Water |                          |                                  |
| 17.              | Packaged Drinking Water            | Lead (as Pb)             | IS 3025 (Part 2) : 2019          |
| 18.              |                                    | Chromium (as Cr)         | IS 3025 (Part 2) : 2019          |
| 19.              |                                    | Nickel (as Ni)           | IS 3025 (Part 2) : 2019          |
| 20.              |                                    | Uranium                  | IS 3025 (Part 2): 2019           |
| 21.              |                                    | Naphthalene              | APHA, 24 <sup>th</sup> Ed,6440 A |
| 22.              |                                    | Acenaphthylene           | APHA, 24 <sup>th</sup> Ed,6440 A |
| 23.              |                                    | Acenaphthene             | APHA, 24 <sup>th</sup> Ed,6440 A |
| 24.              |                                    | Fluorene                 | APHA, 24 <sup>th</sup> Ed,6440 A |
| 25.              |                                    | Chrysene                 | APHA, 24 <sup>th</sup> Ed,6440 A |
| 26.              |                                    | Benzo(A) Anthracene      | APHA, 24 <sup>th</sup> Ed,6440 A |
| 27.              |                                    | Phenanthrene             | APHA, 24 <sup>th</sup> Ed,6440 A |
| 28.              |                                    | Anthracene               | APHA, 24 <sup>th</sup> Ed,6440 A |
| 29.              |                                    | Fluoranthene             | APHA, 24 <sup>th</sup> Ed,6440 A |
| 30.              |                                    | Pyrene                   | APHA, 24 <sup>th</sup> Ed,6440 A |
| 31.              |                                    | Benzo(B) Fluoranthene    | APHA, 24 <sup>th</sup> Ed,6440 A |
| 32.              |                                    | Benzo(A) Pyrene          | APHA, 24 <sup>th</sup> Ed,6440 A |

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## Centre for International Accreditation

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QAI/CIA/TL/2025/0146

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Accreditation Standard: ISO/IEC 17025:2017

| Chemical Testing |                                    |                          |                                    |
|------------------|------------------------------------|--------------------------|------------------------------------|
| Sl. No.          | Product(s)/Material of Test        | Specific Tests Performed | Test Method                        |
|                  | Residues and contaminants in Water |                          |                                    |
| 33.              | Packaged Drinking Water            | Benzo (K) Fluoranthene   | APHA, 24 <sup>th</sup> Ed, 6440 A  |
| 34.              |                                    | Indeno (123-CD) Pyrene   | APHA, 24 <sup>th</sup> Ed, 6440 A  |
| 35.              |                                    | Dibenzo (AH) Anthracene  | APHA, 24 <sup>th</sup> Ed, 6440 A  |
| 36.              |                                    | Benzo (GHI) Perylene     | 6440 A, APHA, 24 <sup>th</sup> Ed. |
| 37.              |                                    | PCB 28                   | Annex M of IS 13428                |
| 38.              |                                    | PCB 52                   | Annex M of IS 13428                |
| 39.              |                                    | PCB 101                  | Annex M of IS 13428                |
| 40.              |                                    | PCB 118                  | Annex M of IS 13428                |
| 41.              |                                    | PCB 153                  | Annex M of IS 13428                |
| 42.              |                                    | PCB 138                  | Annex M of IS 13428                |
| 43.              |                                    | PCB 180                  | Annex M of IS 13428                |
| 44.              |                                    | BHC-alpha                | USEPA 508                          |
| 45.              |                                    | BHC-beta                 | USEPA 508                          |
| 46.              |                                    | Atrazine                 | 8141 A, USEPA 505.2                |
| 47.              |                                    | BHC-gamma                | APHA 6440                          |
| 48.              |                                    | BHC-delta                | USEPA 508                          |

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Accreditation Standard: ISO/IEC 17025:2017

| Chemical Testing |                                    |                          |                     |
|------------------|------------------------------------|--------------------------|---------------------|
| Sl. No.          | Product(s)/Material of Test        | Specific Tests Performed | Test Method         |
|                  | Residues and contaminants in Water |                          |                     |
| 49.              | Packaged Drinking Water            | Parathion-methyl         | USEPA 8141 A        |
| 50.              |                                    | Alachlor                 | 507, USEPA 525.2    |
| 51.              |                                    | Aldrin                   | USEPA 525.2         |
| 52.              |                                    | Chlorpyrifos             | 8141 A, USEPA 525.2 |
| 53.              |                                    | DDE-op'                  | USEPA 508           |
| 54.              |                                    | Butachlor                | 8141 A, USEPA 525.2 |
| 55.              |                                    | Endosulfan alpha         | USEPA 508           |
| 56.              |                                    | DDE-pp'                  | USEPA 508           |
| 57.              |                                    | Dieldrin                 | USEPA 525.2         |
| 58.              |                                    | DDD-op'                  | USEPA 508           |
| 59.              |                                    | Endosulfan beta          | USEPA 508           |
| 60.              |                                    | DDD-pp'                  | USEPA 508           |
| 61.              |                                    | DDT-op'                  | USEPA 508           |
| 62.              |                                    | DDT-pp'                  | USEPA 508           |
| 63.              |                                    | Endosulfane sulfate      | USEPA 508           |

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| Chemical Testing |                                    |                          |                                   |
|------------------|------------------------------------|--------------------------|-----------------------------------|
| Sl. No.          | Product(s)/Material of Test        | Specific Tests Performed | Test Method                       |
|                  | Residues and contaminants in Water |                          |                                   |
| 64.              | Packaged Natural Mineral Water     | Copper                   | IS 3025 (Part 2) : 2019           |
| 65.              |                                    | Manganese (as Mn)        | IS 3025 (Part 2) : 2019           |
| 66.              |                                    | Mercury (as Hg)          | IS 3025 (Part 2) : 2019           |
| 67.              |                                    | Cadmium (as Cd)          | IS 3025 (Part 2) : 2019           |
| 68.              |                                    | Arsenic (as As)          | IS 3025 (Part 2) : 2019           |
| 69.              |                                    | Lead (as Pb)             | IS 3025 (Part 2) : 2019           |
| 70.              |                                    | Chromium (as Cr)         | IS 3025 (Part 2) : 2019           |
| 71.              |                                    | Nickel (as Ni)           | IS 3025 (Part 2) : 2019           |
| 72.              |                                    | Uranium                  | IS 3025 (Part 2) : 2019           |
| 73.              |                                    | Naphthalene              | APHA, 24 <sup>th</sup> Ed, 6440 A |
| 74.              |                                    | Acenaphthylene           | APHA, 24 <sup>th</sup> Ed, 6440 A |
| 75.              |                                    | Acenaphthene             | APHA, 24 <sup>th</sup> Ed, 6440 A |
| 76.              |                                    | Fluorene                 | APHA, 24 <sup>th</sup> Ed, 6440 A |
| 77.              |                                    | Chrysene                 | APHA, 24 <sup>th</sup> Ed, 6440 A |
| 78.              |                                    | Benzo(A) Anthracene      | APHA, 24 <sup>th</sup> Ed, 6440 A |
| 79.              |                                    | Phenanthrene             | APHA, 24 <sup>th</sup> Ed, 6440 A |

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**Accreditation Standard: ISO/IEC 17025:2017**

| Chemical Testing |                                    |                          |                                   |
|------------------|------------------------------------|--------------------------|-----------------------------------|
| Sl. No.          | Product(s)/Material of Test        | Specific Tests Performed | Test Method                       |
|                  | Residues and contaminants in Water |                          |                                   |
| 80.              | Packaged Natural Mineral Water     | Anthracene               | APHA, 24 <sup>th</sup> Ed, 6440 A |
| 81.              |                                    | Fluoranthene             | APHA, 24 <sup>th</sup> Ed, 6440 A |
| 82.              |                                    | Pyrene                   | APHA, 24 <sup>th</sup> Ed, 6440 A |
| 83.              |                                    | Benzo(B) Fluoranthene    | APHA, 24 <sup>th</sup> Ed, 6440 A |
| 84.              |                                    | Benzo(A) Pyrene          | APHA, 24 <sup>th</sup> Ed, 6440 A |
| 85.              |                                    | Benzo (K) Fluoranthene   | APHA, 24 <sup>th</sup> Ed, 6440 A |
| 86.              |                                    | Indeno (123-CD) Pyrene   | APHA, 24 <sup>th</sup> Ed, 6440 A |
| 87.              |                                    | Dibenzo (AH) Anthracene  | APHA, 24 <sup>th</sup> Ed, 6440 A |
| 88.              |                                    | Benzo (GHI) Perylene     | APHA, 24 <sup>th</sup> Ed, 6440 A |
| 89.              |                                    | PCB 28                   | Annex M of IS 13428               |
| 90.              |                                    | PCB 52                   | Annex M of IS 13428               |
| 91.              |                                    | PCB 101                  | Annex M of IS 13428               |
| 92.              |                                    | PCB 118                  | Annex M of IS 13428               |
| 93.              |                                    | PCB 153                  | Annex M of IS 13428               |
| 94.              |                                    | PCB 138                  | Annex M of IS 13428               |
| 95.              |                                    | PCB 180                  | Annex M of IS 13428               |

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| Chemical Testing |                                    |                          |                       |
|------------------|------------------------------------|--------------------------|-----------------------|
| Sl. No.          | Product(s)/Material of Test        | Specific Tests Performed | Test Method           |
|                  | Residues and contaminants in Water |                          |                       |
| 96.              | Packaged Natural Mineral Water     | BHC-alpha                | USEPA 508             |
| 97.              |                                    | BHC-beta                 | USEPA 508             |
| 98.              |                                    | Atrazine                 | 8141 A of USEPA 505.2 |
| 99.              |                                    | BHC-gamma                | APHA 6440             |
| 100.             |                                    | BHC-delta                | USEPA 508             |
| 101.             |                                    | Parathion-methyl         | USEPA 8141 A          |
| 102.             |                                    | Alachlor                 | 507 of USEPA 525.2    |
| 103.             |                                    | Aldrin                   | USEPA 525.2           |
| 104.             |                                    | Chlorpyrifos             | 8141 A of USEPA 525.2 |
| 105.             |                                    | DDE-op'                  | USEPA 508             |
| 106.             |                                    | Butachlor                | 8141 A of USEPA 525.2 |
| 107.             |                                    | Endosulfane alpha        | USEPA 508             |
| 108.             |                                    | DDE-pp'                  | USEPA 508             |
| 109.             |                                    | Dieldrin                 | USEPA 525.2           |
| 110.             |                                    | DDD-op'                  | USEPA 508             |
| 111.             |                                    | Endosulfan beta          | USEPA 508             |

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| Chemical Testing |                                    |                          |             |
|------------------|------------------------------------|--------------------------|-------------|
| Sl. No.          | Product(s)/Material of Test        | Specific Tests Performed | Test Method |
|                  | Residues and contaminants in Water |                          |             |
| 112.             | Packaged Natural Mineral Water     | DDD-pp'                  | USEPA 508   |
| 113.             |                                    | DDT-op'                  | USEPA 508   |
| 114.             |                                    | DDT-pp'                  | USEPA 508   |
| 115.             |                                    | Endosulfan sulphate      | USEPA 508   |



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| Chemical Testing |                             |                          |                             |
|------------------|-----------------------------|--------------------------|-----------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed | Test Method                 |
|                  | Building Material           |                          |                             |
| 1.               | Portland Slag Cement        | Loss on Ignition         | Cl. 6.2 of IS 4032 : 1985   |
| 2.               |                             | Magnesia (MgO)           | Cl. 6.8.2 of IS 4032 : 1985 |
| 3.               |                             | Sulphuric Anhydride      | Cl. 6.11 of IS 4032 : 1985  |
| 4.               |                             | Insoluble Residue        | Cl. 6.9 of IS 4032 : 1985   |
| 5.               |                             | Chloride                 | Cl. 4.13 of IS 4032 : 1985  |
| 6.               |                             | Sodium as Na             | Cl. 4.12 of IS 4032 : 1985  |
| 7.               |                             | Potassium as K           | Cl. 4.12 of IS 4032 : 1985  |
| 8.               |                             | Sulphide Sulphur         | Cl. 6.12 of IS 4032 : 1985  |
| 9.               | Composite Cement            | Loss on Ignition         | Cl. 4.2 of IS 4032 : 1985   |
| 10.              |                             | Magnesia (MgO)           | Cl. 4.8.2 of IS 4032 : 1985 |
| 11.              |                             | Sulphuric Anhydride      | Cl. 4.9 of IS 4032 : 1985   |
| 12.              |                             | Insoluble Residue        | Cl. 4.10 of IS 4032 : 1985  |
| 13.              |                             | Chloride                 | Cl. 4.13 of IS 4032 : 1985  |
| 14.              |                             | Sodium as Na             | Cl. 4.12 of IS 4032 : 1985  |
| 15.              |                             | Potassium as K           | Cl. 4.12 of IS 4032 : 1985  |
| 16.              |                             | Sulphide Sulphur         | Cl. 6.12 of IS 4032 : 1985  |

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| Chemical Testing |                                |                                                   |                             |
|------------------|--------------------------------|---------------------------------------------------|-----------------------------|
| Sl. No.          | Product(s)/Material of Test    | Specific Tests Performed                          | Test Method                 |
|                  | Building Material              |                                                   |                             |
| 17.              | Portland Pozzolana Cement      | Loss on Ignition                                  | Cl. 7.1 of IS 4032 : 1985   |
| 18.              |                                | Magnesia (Mgo)                                    | Cl. 7.2.2 of IS 4032 : 1985 |
| 19.              |                                | Sulphuric Anhydride                               | Cl. 7.3 of IS 4032 : 1985   |
| 20.              |                                | Insoluble Residue                                 | Cl. 7.4 of IS 4032 : 1985   |
| 21.              |                                | Chloride                                          | Cl. 4.13 of IS 4032 : 1985  |
| 22.              |                                | Sodium as Na                                      | Cl. 9 of IS 4032 : 1985     |
| 23.              |                                | Potassium as K                                    | Cl. 9 of IS 4032 : 1985     |
| 24.              | High alumina refractory cement | Aluminium Oxide (Al <sub>2</sub> O <sub>3</sub> ) | Cl. 4.6.2 of IS 4032 : 1985 |
| 25.              |                                | Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> )    | Cl. 4.5.2 of IS 4032 : 1985 |
| 26.              |                                | Silica (SiO <sub>2</sub> )                        | Cl. 4.3 of IS 4032 : 1985   |
| 27.              |                                | Calcium Oxide (CaO)                               | Cl. 4.7.2 of IS 4032 : 1985 |
| 28.              |                                | Magnesia (MgO)                                    | Cl. 4.8.2 of IS 4032 : 1985 |
| 29.              |                                | Titanium dioxide (TiO <sub>2</sub> )              | Part 5 of IS 12107          |
| 30.              | White Portland Cement          | Loss on Ignition (LOI)                            | Cl. 7.1 of IS 4032 : 1985   |
| 31.              |                                | Silica (SiO <sub>2</sub> )                        | Cl. 4.3 of IS 4032 : 1985   |
| 32.              |                                | Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> )    | Cl. 4.5.2 of IS 4032 : 1985 |
| 33.              |                                | Calcium Oxide (CaO)                               | Cl. 4.7.2 of IS 4032 : 1985 |

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| Chemical Testing |                             |                                                                    |                             |
|------------------|-----------------------------|--------------------------------------------------------------------|-----------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed                                           | Test Method                 |
|                  | Building Material           |                                                                    |                             |
| 34.              | White Portland Cement       | Magnesia (MgO)                                                     | Cl. 4.8.2 of IS 4032 : 1985 |
| 35.              |                             | Insoluble Residue (IR)                                             | Cl. 4.10 of IS 4032 : 1985  |
| 36.              |                             | Chloride                                                           | Cl. 4.13 of IS 4032 : 1985  |
| 37.              | Ordinary Portland Cement    | Loss on Ignition (LOI)                                             | Cl. 4.2 of IS 4032 : 1985   |
| 38.              |                             | Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> )                     | Cl. 4.5.2 of IS 4032 : 1985 |
| 39.              |                             | Calcium Oxide (CaO)                                                | Cl. 4.7.2 of IS 4032 : 1985 |
| 40.              |                             | Magnesia (MgO)                                                     | Cl. 4.8.2 of IS 4032 : 1985 |
| 41.              |                             | Sulphuric Anhydride (SO <sub>3</sub> )                             | Cl. 4.9 of IS 4032 : 1985   |
| 42.              |                             | Insoluble Residue (IR)                                             | Cl. 4.10 of IS 4032 : 1985  |
| 43.              |                             | Chloride                                                           | Cl. 4.13 of IS 4032 : 1985  |
| 44.              |                             | Sodium as Na                                                       | Cl. 4.12 of IS 4032 : 1985  |
| 45.              |                             | Potassium as K                                                     | Cl. 4.12 of IS 4032 : 1985  |
| 46.              |                             | Combined ferric oxide and alumina (R <sub>2</sub> O <sub>3</sub> ) | Cl. 4.4 of IS 4032 : 1985   |



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| Chemical Testing |                                                                      |                                                  |                              |
|------------------|----------------------------------------------------------------------|--------------------------------------------------|------------------------------|
| Sl. No.          | Product(s)/Material of Test                                          | Specific Tests Performed                         | Test Method                  |
|                  | Food and Agricultural Products                                       |                                                  |                              |
| 1.               | Iodized salt vacuum evaporated iodized salt and refined iodized salt | Moisture                                         | Annex A of IS 7224: 2006     |
| 2.               |                                                                      | Water Insoluble matter                           | Annex C of IS 7224: 2006     |
| 3.               |                                                                      | Chloride as NaCl                                 | Annex D of IS 7224: 2006     |
| 4.               |                                                                      | Magnesium (as Mg)                                | Annex F-2.1 of IS 7224: 2006 |
| 5.               |                                                                      | Sulphate (as SO <sub>4</sub> )                   | Annex G-2 of IS 7224: 2006   |
| 6.               |                                                                      | Iodine                                           | Annex H-3.2 of IS 7224: 2006 |
| 7.               |                                                                      | Particle size                                    | Cl. 4.2 of IS 7224: 2006     |
| 8.               |                                                                      | Description                                      | Cl. 4.1 of IS 7224: 2006     |
| 9.               |                                                                      | Alkalinity (as Na <sub>2</sub> CO <sub>3</sub> ) | Annex J of IS 7224: 2006     |
| 10.              |                                                                      | Calcium (as Ca)                                  | Annex F-2.1 of IS 7224: 2006 |
| 11.              |                                                                      | Iron (as Fe)                                     | Annex M of IS 7224: 2006     |
| 12.              |                                                                      | Arsenic (as As)                                  | Annex L-1 of IS 7224: 2006   |



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| Chemical Testing |                                                                                                                                                                 |                                                 |                        |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|------------------------|
| Sl. No.          | Product(s)/Material of Test                                                                                                                                     | Specific Tests Performed                        | Test Method            |
|                  | <b>Plastic &amp; Resins</b>                                                                                                                                     |                                                 |                        |
| 1.               | Unplasticized PVC Pipes for Water Supplies                                                                                                                      | Sulphated Ash                                   | Annex B, IS 4985: 2021 |
| 2.               | Unplasticized Polyvinyl Chloride (PVC-U) Pipes for Soil and Waste Discharge System for Inside and Outside Buildings Including Ventilation and Rain Water System | Resistance to Sulphuric acid                    | IS 13592: 2013         |
| 3.               | Polyethylene Pipes for Water Supply                                                                                                                             | Carbon Black Content                            | Cl. 10, IS 2530: 1963  |
| 4.               |                                                                                                                                                                 | Carbon Black Dispersion                         | Cl. 16, IS 2530: 1963  |
| 5.               | Containers for packaging of natural mineral water and packaged drinking water                                                                                   | Phthalic acid, bis (2- ethylhexyl) ester (DEHP) | ISO 18856              |



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| Biological Testing |                             |                                          |                        |
|--------------------|-----------------------------|------------------------------------------|------------------------|
| Sl. No.            | Product(s)/Material of Test | Specific Tests Performed                 | Test Method            |
|                    | Water                       |                                          |                        |
| 1.                 | Packaged Drinking Water     | Escherichia coli                         | IS 15185               |
| 2.                 |                             | Coliform                                 | IS 15185               |
| 3.                 |                             | Faecal Streptococci                      | IS 5887 (Part 2)       |
| 4.                 |                             | Staphylococcus Aureus                    | IS 15186               |
| 5.                 |                             | Sulphite Reducing Anaerobes              | Annex C of IS 13428    |
| 6.                 |                             | Pseudomonas Aeruginosa                   | Annex D of IS 13428    |
| 7.                 |                             | Aerobic Microbial Count @ 20 °C to 22 °C | IS 5402 (Part 1)       |
| 8.                 |                             | Aerobic Microbial Count @ 37 °C ± 1 °C   | IS 5402 (Part 1)       |
| 9.                 |                             | Yeast and mould                          | IS 16069 (Part 1)      |
| 10.                |                             | Salmonella                               | IS 15187               |
| 11.                |                             | Shigella                                 | IS 5887 (Part 7)       |
| 12.                |                             | Vibrio cholera                           | IS 5887 (Part 5/Sec 1) |
| 13.                |                             | V. parahaemolyticus                      | IS 5887 (Part 5/Sec 1) |



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| Biological Testing |                                |                             |                        |
|--------------------|--------------------------------|-----------------------------|------------------------|
| Sl. No.            | Product(s)/Material of Test    | Specific Tests Performed    | Test Method            |
|                    | Water                          |                             |                        |
| 14.                | Packaged Natural Mineral water | Escherichia coli            | IS 15185               |
| 15.                |                                | Coliform                    | IS 15185               |
| 16.                |                                | Faecal Streptococci         | IS 5887 (Part 2)       |
| 17.                |                                | Staphylococcus Aureus       | IS 15186               |
| 18.                |                                | Sulphite Reducing Anaerobes | Annex C of IS 13428    |
| 19.                |                                | Pseudomonas Aeruginosa      | Annex D of IS 13428    |
| 20.                |                                | Yeast and mould             | IS 16069 (Part 1)      |
| 21.                |                                | Salmonella                  | IS 15187               |
| 22.                |                                | Shigella                    | IS 5887 (Part 7)       |
| 23.                |                                | Vibrio cholera              | IS 5887 (Part 5/Sec 1) |
| 24.                |                                | V. parahaemolyticus         | IS 5887 (Part 5/Sec 1) |



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| Mechanical Testing |                                                             |                                                    |                                               |
|--------------------|-------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                                 | Specific Tests Performed                           | Test Method                                   |
|                    | <b>Mechanical Properties of Metals</b>                      |                                                    |                                               |
| 1.                 | Hot rolled medium and high tensile structural steel         | Tensile Test, Elongation (%)                       | Cl. 3.4.2, 3.10.1 & 3.10.2 of IS 1608-1: 2022 |
| 2.                 |                                                             | Bend Test                                          | Cl. 8 of IS 1599: 2023                        |
| 3.                 |                                                             | Freedom from defects                               | Cl. 7.1 to 7.3 of IS 2062: 2011               |
| 4.                 |                                                             | Impact Test (Izod impact test, Charpy impact test) | Cl. 6 of IS 1757-1: 2020                      |
| 5.                 |                                                             | Y-Groove cracking test                             | Cl. 6 of IS 1757-1: 2020                      |
| 6.                 |                                                             | Mass                                               | Cl. 15 of IS 2062: 2011                       |
| 7.                 |                                                             | Dimension (Outside Diameter)                       | Cl. 15 & 16 of IS 2062: 2011                  |
| 8.                 | Steel tubes for mechanical and general engineering purposes | Straightness                                       | Cl. 6 of IS 3601:2006                         |
| 9.                 |                                                             | Outside diameter                                   | Cl. 10 of IS 3601:2006                        |
| 10.                |                                                             | Tensile Test, Elongation (%)                       | Cl. 3.4.2, 3.10.1 & 3.10.2 of IS 1608-1: 2022 |
| 11.                |                                                             | Crushing strength for tube                         | Cl. 13.6 of IS 3601:2006                      |
| 12.                |                                                             | Flattening Test                                    | Cl. 13.2 of IS 3601:2006                      |

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| Mechanical Testing |                                                             |                              |                                               |
|--------------------|-------------------------------------------------------------|------------------------------|-----------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                                 | Specific Tests Performed     | Test Method                                   |
|                    | <b>Mechanical Properties of Metals</b>                      |                              |                                               |
| 13.                | Steel tubes for mechanical and general engineering purposes | Drifted expansion Test       | Cl. 13.5 of IS 3601:2006                      |
| 14.                |                                                             | Bend Test Whole Tube         | Cl. 13.4 of IS 3601:2006, REF IS 2329: 2005   |
| 15.                | Hot - Rolled steel strip for welded tubes and pipes         | Tensile Test, Elongation (%) | Cl. 3.4.2, 3.10.1 & 3.10.2 of IS 1608-1: 2022 |
| 16.                |                                                             | Bend Test                    | Cl. 8 of IS 1599: 2023                        |
| 17.                |                                                             | Freedom from Defects         | Cl. 11 of IS 10748:2004                       |
| 18.                |                                                             | Dimension (Thickness)        | Cl. 12 of IS 10748:2004                       |
| 19.                |                                                             | Outside Diameter             | Cl. 6 of IS 1161:2014                         |
| 20.                |                                                             | Thickness                    | Cl. 6 of IS 1161:2014                         |
| 21.                |                                                             | Mass                         | Cl. 8 of IS 1161:2014                         |
| 22.                |                                                             | Straightness                 | Cl. 9.1 of IS 1161:2014                       |
| 23.                |                                                             | Length                       | Cl. 10.1 of IS 1161:2014                      |
| 24.                |                                                             | Tensile Test, Elongation (%) | Cl. 3.4.2, 3.10.1 & 3.10.2 of IS 1608-1: 2022 |

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| Mechanical Testing |                                                        |                              |                                               |
|--------------------|--------------------------------------------------------|------------------------------|-----------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                            | Specific Tests Performed     | Test Method                                   |
|                    | <b>Mechanical Properties of Metals</b>                 |                              |                                               |
| 25.                | Steel tubes for structural purposes                    | Cold Bend test               | Cl.6 of IS 2329 : 2005                        |
| 26.                |                                                        | Flattening test              | Cl.6 of IS 2328 : 2018                        |
| 27.                | Mild steel wire for general engineering purposes       | Freedom from defects         | Cl.13 of IS 280:2006                          |
| 28.                |                                                        | Dimension (OD)               | Cl.7.1,7.2 of IS 280:2006                     |
| 29.                |                                                        | Tensile Test, Elongation (%) | Cl.3.4.2, 3.10.1 & 3.10.2 of IS 1608-1 : 2022 |
| 30.                |                                                        | Wrapping test                | Cl.5 of IS 1755: 2018                         |
| 31.                |                                                        | Bend Test                    | Cl.9.3 of IS 280:2006                         |
| 32.                | Steel tubes, tubulars and other wrought steel fittings | Dimension - OD               | Cl.8 of IS 1239-1:2004                        |
| 33.                |                                                        | Thickness                    | Cl.8 of IS 1239-1:2004                        |
| 34.                |                                                        | Tensile Test, Elongation (%) | Cl.3.4.2, 3.10.1 & 3.10.2 of IS 1608-1 : 2022 |
| 35.                |                                                        | Bend Test                    | Cl.6 of IS 2329 : 2005                        |
| 36.                |                                                        | Flattening Test              | Cl.6 of IS 2328 : 2018                        |
| 37.                |                                                        | Workmanship                  | Cl.15 of IS 1239-1:2004                       |

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| Mechanical Testing |                                                                                                                   |                                         |                                                |
|--------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                                                                                       | Specific Tests Performed                | Test Method                                    |
|                    | <b>Mechanical Properties of Metals</b>                                                                            |                                         |                                                |
| 38.                | Hot rolled steel plate (Up To 6 Mm) sheet and strip for the manufacture of low-pressure liquefiable gas cylinders | Dimension (Thickness)                   | Cl.10.1,10.2 and 11 of IS 6240:2008            |
| 39.                |                                                                                                                   | Tensile Test, Elongation (%)            | Cl.3.4.2, 3.10.1 & 3.10.2 of IS 1608-1 : 2022  |
| 40.                |                                                                                                                   | Bend Test                               | Cl.6 of IS 1599 : 2023                         |
| 41.                | Galvanized steel strips and sheets (Plain And Corrugated)                                                         | Tensile Test, Elongation (%)            | Cl.3.4.2 , 3.10.1 & 3.10.2 of IS 1608-1 : 2022 |
| 42.                |                                                                                                                   | Bend test                               | Cl.8.2 of IS 277:2018                          |
| 43.                |                                                                                                                   | Measurement of surface finish           | Cl.9 of IS 277:2018                            |
| 44.                |                                                                                                                   | Dimension (OD)                          | Cl.14,15 of IS 277:2018                        |
| 45.                | High Strength Deformed Steel Bars and Wires for Concrete Reinforcement                                            | Freedom from defects                    | Cl.4.3 of IS 1786:2008                         |
| 46.                |                                                                                                                   | Deformation and surface characteristics | Cl.5.2 of IS 1786:2008                         |
| 47.                |                                                                                                                   | Mass                                    | Cl.6 and 7 of IS 1786:2008                     |
| 48.                |                                                                                                                   | Nominal size                            | Cl.6 and 7 of IS 1786:2008                     |
| 49.                |                                                                                                                   | Tensile Test, Elongation (%)            | Cl.3.4.2, 3.10.1 & 3.10.2 of IS 1608-1 : 2022  |

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| Mechanical Testing |                                                                        |                              |                                                |
|--------------------|------------------------------------------------------------------------|------------------------------|------------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                                            | Specific Tests Performed     | Test Method                                    |
|                    | <b>Mechanical Properties of Metals</b>                                 |                              |                                                |
| 50.                | High Strength Deformed Steel Bars and Wires for Concrete Reinforcement | Bend test                    | Cl.8 of IS 1599: 2023                          |
| 51.                |                                                                        | Re-bend Test                 | Cl. 9.4 of IS 1786:2008                        |
| 52.                | Hollow steel sections for structural use                               | Weight(mass/meter)           | Cl.10 of IS 4923:2017                          |
| 53.                |                                                                        | Twist                        | Cl.10 of IS 4923:2017                          |
| 54.                |                                                                        | Dimension (OD)               | Cl.10 of IS 4923:2017                          |
| 55.                |                                                                        | Thickness                    | Cl.10 of IS 4923:2017                          |
| 56.                |                                                                        | Concavity                    | Cl.10 of IS 4923:2017                          |
| 57.                |                                                                        | Convexity                    | Cl.10 of IS 4923:2017                          |
| 58.                |                                                                        | Tensile Test, Elongation (%) | Cl.3.4.2 , 3.10.1 & 3.10.2 of IS 1608-1 : 2022 |
| 59.                | Structural steel (Ordinary Quality)                                    | Freedom from defects         | Cl. 7 of IS 15911:2010                         |
| 60.                |                                                                        | Tensile Test, Elongation (%) | Cl.3.4.2 , 3.10.1 & 3.10.2 of IS 1608-1 : 2022 |
| 61.                |                                                                        | Bend Test                    | Cl.8 of IS 1599 : 2023                         |
| 62.                |                                                                        | Dimension (Thickness)        | Cl. 12 of IS 15911:2010                        |

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| Mechanical Testing |                                                                             |                                               |                                               |
|--------------------|-----------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                                                 | Specific Tests Performed                      | Test Method                                   |
|                    | <b>Mechanical Properties of Metals</b>                                      |                                               |                                               |
| 63.                | Steel pipes for water and sewage (168.3 To 2540 Mm Outside Diameter)        | Tensile Test, Elongation (%)                  | Cl.3.4.2, 3.10.1 & 3.10.2 of IS 1608-1 : 2022 |
| 64.                |                                                                             | Flattening test for ERW pipes                 | Cl. 9.2.1 of IS 3589:2001                     |
| 65.                |                                                                             | Flattening Test for seamless pipes            | Cl. 9.2.3 of IS 3589:2001                     |
| 66.                |                                                                             | Guided Bend Test                              | Cl. 9.3 of IS 3589:2001                       |
| 67.                |                                                                             | Visual inspection, Appearance and workmanship | Cl. 14 of IS 3589:2001                        |
| 68.                | Cold reduced low carbon steel sheets and strips                             | Cupping test                                  | Cl. 2 of IS 10175: 2018                       |
| 69.                |                                                                             | Hardness Test by Rockwell                     | Cl. 3 of IS 1586(Part 1): 2025                |
| 70.                |                                                                             | Bend test                                     | Cl.8 of IS 1599: 2023                         |
| 71.                |                                                                             | Surface finish                                | Cl. 9.5 of IS 513(Part 1):2016                |
| 72.                |                                                                             | Dimension (Thickness)                         | Cl. 11 of IS 513(Part 1):2016                 |
| 73.                | Hot Rolled Steel Flat Products for Structural Forming and Flanging Purposes | Tensile Test, Elongation (%)                  | Cl.3.4.2, 3.10.1 & 3.10.2 of IS 1608-1 : 2022 |
| 74.                |                                                                             | Bend Test                                     | Cl.8 of IS 1599: 2023                         |

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| Mechanical Testing |                                                                                   |                               |                                                |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------|------------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                                                       | Specific Tests Performed      | Test Method                                    |
|                    | <b>Mechanical Properties of Metals</b>                                            |                               |                                                |
| 75.                | Hot Rolled Steel Flat Products for Structural Forming and Flanging Purposes       | Freedom from defects          | Cl. 8 of IS 5986: 2017                         |
| 76.                |                                                                                   | Dimension (Thickness)         | Cl. 7 of IS 1730 & IS/ISO 16160 : 2012         |
| 77.                |                                                                                   | Mass                          | Cl. 16 of IS 5986: 2017                        |
| 78.                | Indented wire for prestressed concrete                                            | Tensile Test, Elongation (%)  | Cl.3.4.2 , 3.10.1 & 3.10.2 of IS 1608-1 : 2022 |
| 79.                |                                                                                   | Bending Test                  | Cl. 8.5 of IS 6003: 2010                       |
| 80.                |                                                                                   | Elongation after fracture     | Cl. 11 of IS 1608(Part 1): 2022                |
| 81.                |                                                                                   | Nominal Mass                  | Cl.5.1 of IS 6003: 2010                        |
| 82.                | Low carbon galvanized steel wires, formed wires and tapes for armouring of cables | Dimension (Nominal Diameter)  | Cl. 6.3 of IS 3975:1999                        |
| 83.                |                                                                                   | Adhesion test                 | Cl. 9.3 of IS 3975:1999                        |
| 84.                |                                                                                   | Tensile Test, Elongation (%)  | Cl.3.4.2 , 3.10.1 & 3.10.2 of IS 1608-1 : 2022 |
| 85.                |                                                                                   | Torsion test                  | Cl. 3 of IS 1717: 2018                         |
| 86.                |                                                                                   | Lapping/wrapping/colling test | Cl. 2 of IS 1755: 2018                         |



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| Mechanical Testing |                                                  |                              |                                                |
|--------------------|--------------------------------------------------|------------------------------|------------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                      | Specific Tests Performed     | Test Method                                    |
|                    | <b>Mechanical Properties of Metals</b>           |                              |                                                |
| 87.                | Mild Steel Wire for General Engineering Purposes | Freedom from defects         | Cl. 13 of IS 280:2006                          |
| 88.                |                                                  | Dimension (OD)               | Cl. 7, 8 of IS 280:2006                        |
| 89.                |                                                  | Tensile Test, Elongation (%) | Cl.3.4.2 , 3.10.1 & 3.10.2 of IS 1608-1 : 2022 |
| 90.                |                                                  | Wrapping test                | Cl. 2 of IS 1755: 2018                         |
| 91.                |                                                  | Bend Test                    | Cl. 9.3 of IS 280:2006                         |
| 92.                | Steel butt hinges                                | Dimension (Length)           | Cl. 5.1 of IS 1341:2018                        |
| 93.                |                                                  | Dimension (Thickness)        | Cl. 5.2 of IS 1341:2018                        |
| 94.                |                                                  | Manufacture                  | Cl. 6 of IS 1341:2018                          |
| 95.                | Hot rolled carbon steel Sheet, Plate and Strip   | Tensile Test, Elongation (%) | Cl.3.4.2 , 3.10.1 & 3.10.2 of IS 1608-1 : 2022 |
| 96.                |                                                  | Bend Test                    | Cl.8 of IS 1599 : 2023                         |
| 97.                |                                                  | Cupping Test                 | Cl. 2 of IS 10175 :2018                        |
| 98.                |                                                  | Freedom from defects         | Cl. 12 of IS 1079:2017                         |

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| Mechanical Testing |                                                                                                                                  |                               |                                     |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------|
| Sl. No.            | Product(s)/Material of Test                                                                                                      | Specific Tests Performed      | Test Method                         |
|                    | <b>Mechanical Properties of Metals</b>                                                                                           |                               |                                     |
| 99.                | Hot rolled carbon steel Sheet, Plate and Strip                                                                                   | Dimension (Thickness)         | Cl. 13.2.1 of IS 1079:2017          |
| 100.               |                                                                                                                                  | Weight                        | Cl. 14 of IS 1079:2017              |
| 101.               | Mild Steel for Metal Arc Welding Electrodes                                                                                      | Freedom from                  | Cl. 7 of IS 2879:1998               |
| 102.               |                                                                                                                                  | Defects                       | Cl. 7 of IS 2879:1998               |
| 103.               |                                                                                                                                  | Dimension (Diameter)          | Cl. 8 of IS 2879:1998               |
| 104.               | Aluminium conductors, galvanized steel Reinforced for overhead transmission purposes                                             | Freedom from defects          | Cl. 7 of IS 398 (PART 2):2025       |
| 105.               |                                                                                                                                  | Diameter                      | Cl. 8 of IS 398 (PART 2): 2025      |
| 106.               |                                                                                                                                  | Breaking Load                 | Cl. 13.3 of IS 398 (PART 2): 2025   |
| 107.               |                                                                                                                                  | Lapping/wrapping/colling test | Cl. 13.5 of IS 398 (PART 2): 2025   |
| 108.               |                                                                                                                                  | Torsion Test                  | Cl. 13.4.1 of IS 398 (PART 2): 2025 |
| 109.               |                                                                                                                                  | Stress-strain test            | Cl. 13.11 of IS 398 (PART 2): 2025  |
| 110.               | Aluminium conductors- Galvanized steel –reinforced for extra high voltage (400 kv and above), for overhead Transmission purposes | Freedom from defects          | Cl. 7 of IS 398 (Part 5):1992       |
| 111.               |                                                                                                                                  | Diameter                      | Cl. 8 of IS 398 (Part 5):1992       |
| 112.               |                                                                                                                                  | Breaking Load Test            | Cl. 13.5 of IS 398 (Part 5):1992    |
| 113.               |                                                                                                                                  | Lapping/wrapping/colling test | Cl. 13.7 of IS 398 (Part 5):1992    |

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| Mechanical Testing |                                                              |                               |                                  |
|--------------------|--------------------------------------------------------------|-------------------------------|----------------------------------|
| Sl. No.            | Product(s)/Material of Test                                  | Specific Tests Performed      | Test Method                      |
|                    | <b>Building, Infrastructure &amp; Construction Materials</b> |                               |                                  |
| 1.                 | Marine plywood                                               | Dimensions (Length)           | Cl. 6.1 of IS 710: 2024          |
| 2.                 |                                                              | Edge Straightness             | Cl. 6.3 of IS 710: 2024          |
| 3.                 |                                                              | Edge Squareness               | Cl. 6.3 of IS 710: 2024          |
| 4.                 |                                                              | Thickness                     | Cl. 6.2 of IS 710: 2024          |
| 5.                 |                                                              | Moisture content              | Cl. 5 of IS 1734-Part-1: 1983    |
| 6.                 |                                                              | Glue shear strength           | Cl. 4 of IS 1734-Part-4: 1983    |
| 7.                 |                                                              | Adhesion of plies             | Cl. 5 of IS 1734-Part-5: 1983    |
| 8.                 |                                                              | Water Resistance Test         | Cl. 4 of IS 1734-Part-6: 1983    |
| 9.                 |                                                              | Tensile strength              | Cl. 4 of IS 1734-Part-9: 1983    |
| 10.                |                                                              | Mycological Test              | Cl. 4 of IS 1734-Part-7: 1983    |
| 11.                |                                                              | Static Bending strength (MOR) | Cl. 2.3 of IS 1734-Part-11: 1983 |
| 12.                |                                                              | Static Bending strength (MOE) | Cl. 2.3 of IS 1734-Part-11: 1983 |
| 13.                | Plywood for concrete shuttering                              | Dimensions (Length)           | Cl. 7.2 of IS 4990: 2024         |

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| Mechanical Testing |                                                   |                               |                                  |
|--------------------|---------------------------------------------------|-------------------------------|----------------------------------|
| Sl. No.            | Product(s)/Material of Test                       | Specific Tests Performed      | Test Method                      |
|                    | Building, Infrastructure & Construction Materials |                               |                                  |
| 14.                | Plywood for concrete shuttering                   | Edge Straightness             | Cl. 7.4 of IS 4990: 2024         |
| 15.                |                                                   | Edge Squareness               | Cl. 7.4 of IS 4990: 2024         |
| 16.                |                                                   | Thickness                     | Cl. 7.3 of IS 4990: 2024         |
| 17.                |                                                   | Moisture content              | Cl. 5 of IS 1734-Part-1: 1983    |
| 18.                |                                                   | Glue shear strength           | Cl. 4 of IS 1734-Part-4: 1983    |
| 19.                |                                                   | Adhesion of plies             | Cl. 5 of IS 1734-Part-5: 1983    |
| 20.                |                                                   | Water Resistance Test         | Cl. 4 of IS 1734-Part-6: 1983    |
| 21.                |                                                   | Tensile strength              | Cl. 4 of IS 1734-Part-9: 1983    |
| 22.                |                                                   | Mycological Test              | Cl. 4 of IS 1734-Part-7: 1983    |
| 23.                |                                                   | Static Bending strength (MOR) | Cl. 2.3 of IS 1734-Part-11: 1983 |
| 24.                |                                                   | Static Bending strength (MOE) | Cl. 2.3 of IS 1734-Part-11: 1983 |
| 25.                | Block boards                                      | Dimensions (Length)           | Cl. 7.2 of IS 4990: 2024         |
| 26.                |                                                   | Edge Straightness             | Cl. 7.4 of IS 4990: 2024         |
| 27.                |                                                   | Edge Squareness               | Cl. 7.4 of IS 4990: 2024         |

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 Patna-800013, Bihar, India*

**QAI/CIA/TL/2025/0146**

*Valid from: 14 October 2025  
 Valid until: 13 October 2027*

**Accreditation Standard: ISO/IEC 17025:2017**

| Mechanical Testing |                                                              |                                        |                           |
|--------------------|--------------------------------------------------------------|----------------------------------------|---------------------------|
| Sl. No.            | Product(s)/Material of Test                                  | Specific Tests Performed               | Test Method               |
|                    | <b>Building, Infrastructure &amp; Construction Materials</b> |                                        |                           |
| 28.                | Block boards                                                 | Variation in thickness                 | Cl. 7.4 of IS 4990: 2024  |
| 29.                |                                                              | Thickness                              | Cl. 7.3 of IS 4990: 2024  |
| 30.                |                                                              | Dimensional changes caused by humidity | Cl. 9.2.1 of IS 1659:2004 |
| 31.                |                                                              | Resistance to water                    | Cl. 9.2.2 of IS 1659:2004 |
| 32.                |                                                              | Adhesion of plies                      | Cl. 9.2.3 of IS 1659:2004 |
| 33.                |                                                              | Mycological Test                       | Cl. 9.2.4 of IS 1659:2004 |
| 34.                |                                                              | Static Bending strength (MOR)          | Cl. 9.2.5 of IS 1659:2004 |
| 35.                |                                                              | Static Bending strength (MOE)          | Cl. 9.2.5 of IS 1659:2004 |
| 36.                |                                                              | Spot Test                              | Cl. 9.2.6 of IS 1659:2004 |
| 37.                | Plywood for general purpose                                  | Dimensions (Length)                    | Cl. 7.2 of IS 4990: 2024  |
| 38.                |                                                              | Edge Straightness                      | Cl. 8.3 of IS 303: 2024   |
| 39.                |                                                              | Edge Squareness                        | Cl. 8.3 of IS 303: 2024   |

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### Scope of Accreditation

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| Mechanical Testing |                                                   |                               |                                   |
|--------------------|---------------------------------------------------|-------------------------------|-----------------------------------|
| Sl. No.            | Product(s)/Material of Test                       | Specific Tests Performed      | Test Method                       |
|                    | Building, Infrastructure & Construction Materials |                               |                                   |
| 40.                | Plywood for general purpose                       | Thickness                     | Cl. 8.2 of IS 303: 2024           |
| 41.                |                                                   | Moisture content              | Cl. 5 of IS 1734-Part-1: 1983     |
| 42.                |                                                   | Glue Adhesion                 | Cl. 5 of IS 1734-Part-5: 1983     |
| 43.                |                                                   | Mycological Test              | Cl. 4 of IS 1734-Part-7: 1983     |
| 44.                |                                                   | Static Bending strength (MOR) | Cl. 2.3 of IS 1734-Part-11: 1983  |
| 45.                |                                                   | Static Bending strength (MOE) | Cl. 2.3 of IS 1734-Part-11: 1983  |
| 46.                | Wooden flush door shutters                        | Dimensions (Length)           | Cl. 5 of IS 2202(Part 1): 2023    |
| 47.                |                                                   | Edge Straightness             | Cl. 11.1 of IS 2202(Part 1): 2023 |
| 48.                |                                                   | Edge Squareness               | Cl. 11.1 of IS 2202(Part 1): 2023 |
| 49.                |                                                   | Thickness                     | Cl. 5.2 of IS 2202(Part 1): 2023  |
| 50.                |                                                   | Variation in thickness        | Cl. 11.1 of IS 2202(Part 1): 2023 |
| 51.                |                                                   | Knife Test                    | Cl.2 of IS 4020-Part-14           |
| 52.                |                                                   | Glue Adhesion Test            | Cl.2 of IS 4020-Part-15           |

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**Accreditation Standard: ISO/IEC 17025:2017**

| Mechanical Testing |                                                              |                                  |                               |
|--------------------|--------------------------------------------------------------|----------------------------------|-------------------------------|
| Sl. No.            | Product(s)/Material of Test                                  | Specific Tests Performed         | Test Method                   |
|                    | <b>Building, Infrastructure &amp; Construction Materials</b> |                                  |                               |
| 53.                | Portland pozzolana Cement                                    | Fineness                         | Cl. 5 of IS 4031(Part 2):1999 |
| 54.                |                                                              | Soundness by Le Chatelier        | Cl. 5 of IS 4031(Part 3):1998 |
| 55.                | Portland pozzolana Cement                                    | Soundness by Autoclave Expansion | Cl.6 of IS 4031-PART-3:1998   |
| 56.                |                                                              | Setting Time-Initial             | Cl.5.2 of IS 4031-PART-5:1998 |
| 57.                |                                                              | Setting Time-Final               | Cl.5.3 of IS 4031-PART-5:1998 |
| 58.                |                                                              | Compressive Strength at 72 Hrs.  | Cl.7 of IS 4031-PART-6:1998   |
| 59.                |                                                              | Compressive Strength at 168 Hrs. | Cl.7 of IS 4031-PART-6:1998   |
| 60.                |                                                              | Compressive Strength at 672 Hrs. | Cl.7 of IS 4031-PART-6:1998   |
| 61.                |                                                              | Drying Shrinkage Test            | Cl.6 of IS 4031-PART-10:1998  |
| 62.                |                                                              | Fineness                         | Cl.5 of IS 4031(PART2) :1999  |
| 63.                | Ordinary Portland cement                                     | Soundness by Le Chatelier        | Cl.5 of IS 4031-PART-3:1998   |
| 64.                |                                                              | Soundness by Autoclave Expansion | Cl.6 of IS 4031-PART-3:1998   |
| 65.                |                                                              | Setting Time-Initial             | Cl.5.2 of IS 4031-PART-5:1998 |

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| Mechanical Testing |                                                   |                                   |                                |
|--------------------|---------------------------------------------------|-----------------------------------|--------------------------------|
| Sl. No.            | Product(s)/Material of Test                       | Specific Tests Performed          | Test Method                    |
|                    | Building, Infrastructure & Construction Materials |                                   |                                |
| 66.                | Ordinary Portland cement                          | Setting Time-Final                | Cl.5.3 of IS 4031-PART-5 :1998 |
| 67.                |                                                   | Compressive Strength- at 72 Hrs.  | Cl.7 of IS 4031-PART-6:1998    |
| 68.                |                                                   | Compressive Strength- at 168 Hrs. | Cl.7 of IS 4031-PART-6:1998    |
| 69.                |                                                   | Compressive Strength- at 672 Hrs. | Cl.7 of IS 4031-PART-6:1998    |
| 70.                | Portland slag cement                              | Fineness                          | Cl.5 of IS 4031(PART2) :1999   |
| 71.                |                                                   | Soundness by Le Chatelier         | Cl.5 of S 4031-PART-3:1998     |
| 72.                |                                                   | Soundness by Autoclave Expansion  | Cl.6 of IS 4031-PART-3:1998    |
| 73.                |                                                   | Setting Time-Initial              | Cl.5.2 of IS 4031-PART-5 :1998 |
| 74.                |                                                   | Setting Time-Final                | Cl.5.3 of IS 4031-PART-5:1998  |
| 75.                |                                                   | Compressive Strength- at 72 Hrs.  | Cl.7 of IS 4031-PART-6:1998    |
| 76.                |                                                   | Compressive Strength- at 168 Hrs. | Cl.7 of IS 4031-PART-6:1998    |
| 77.                |                                                   | Compressive Strength- at 672 Hrs. | Cl.7 of IS 4031-PART-6:1998    |

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| Mechanical Testing |                                                              |                                   |                                 |
|--------------------|--------------------------------------------------------------|-----------------------------------|---------------------------------|
| Sl. No.            | Product(s)/Material of Test                                  | Specific Tests Performed          | Test Method                     |
|                    | <b>Building, Infrastructure &amp; Construction Materials</b> |                                   |                                 |
| 78.                | Composite cement                                             | Fineness                          | Cl.5 of IS 4031(PART2) :1998    |
| 79.                |                                                              | Soundness by Le Chatelier         | Cl.5 of IS 4031-PART-3:1998     |
| 80.                |                                                              | Soundness by Autoclave Expansion  | Cl.6 of IS 4031-PART-3:1998     |
| 81.                |                                                              | Setting Time-Initial              | Cl.5.2 of IS 4031-PART-5:1998   |
| 82.                |                                                              | Setting Time-Final                | Cl.5.3 of IS 4031-PART-5:1998   |
| 83.                |                                                              | Compressive Strength- at 72 Hrs.  | Cl.7 of IS 4031-PART-6:1998     |
| 84.                |                                                              | Compressive Strength- at 168 Hrs. | Cl.7 of IS 4031-PART-6:1998     |
| 85.                |                                                              | Compressive Strength- at 672 Hrs. | Cl.7 of IS 4031-PART-6:1998     |
| 86.                |                                                              | Drying Shrinkage Test             | Cl.6 of IS 4031-PART-10:1998    |
| 87.                | High alumina refractory Cement                               | Fineness                          | Cl.5.3 of IS 4031(Part 2) :1999 |
| 88.                |                                                              | Setting Time-Initial              | Cl.5.2 of IS 4031-Part-5:1998   |
| 89.                |                                                              | Setting Time-Final                | Cl.5.3 of IS 4031-Part-5:1998   |
| 90.                |                                                              | Compressive Strength- at 72 Hrs.  | Cl.7.1 of IS 4031-Part-6:1998   |

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| Mechanical Testing |                                                                                      |                                          |                                                   |
|--------------------|--------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                                                          | Specific Tests Performed                 | Test Method                                       |
|                    | <b>Building, Infrastructure &amp; Construction Materials</b>                         |                                          |                                                   |
| 91.                | Unplasticized Polyvinyl chloride (PVC-U) screen and Casing pipes for bore/ Tubewells | Threading of screen and casing pipe      | Cl.4.4 of IS 12818:2010, IS 554                   |
| 92.                |                                                                                      | Dimension- OD at any point               | Cl.4 of IS 12818:2010, IS 12235 (Part 1) :2004    |
| 93.                |                                                                                      | Mean OD                                  | Cl.3 of IS 12235 (Part 1) :2004                   |
| 94.                |                                                                                      | Wall thickness                           | Cl.5 of IS 12235 (Part 1) :2004                   |
| 95.                |                                                                                      | Density                                  | Cl.9.3 of IS 12818:2010, IS 12235 (Part 14) :2004 |
| 96.                |                                                                                      | Resistance to external blows at 0°C      | Cl.6 of IS 12818:2010, IS 12235 (Part 9) :2004    |
| 97.                | Unplasticized Polyvinyl chloride (PVC-U) screen and Casing pipes for bore/ Tubewells | Tensile strength (Clause 9.5)            | Cl.7 of IS 12818:2010, IS 12235 (Part 13) :2004   |
| 98.                |                                                                                      | Vicat softening temperature (Clause 9.6) | Cl.5 of IS 12818:2010, IS 12235 (Part 2) :2004    |
| 99.                | Polyethylene pipes for water supply                                                  | Melt Flow rate                           | Cl.8.4 of IS 4984:2016, IS 2530                   |
| 100.               |                                                                                      | Dimensions Mean OD                       | Cl.6.3.1 of IS 4984:2016                          |
| 101.               |                                                                                      | Wall thickness                           | Cl.6.3.1 of IS 4984:2016                          |
| 102.               |                                                                                      | Longitudinal Reversion test              | Cl.8.2 of IS 4984:2016                            |
| 103.               |                                                                                      | Density                                  | Cl.8.7 of IS 7328:2020                            |

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| Mechanical Testing |                                                                                                  |                                     |                                                              |
|--------------------|--------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                                                                      | Specific Tests Performed            | Test Method                                                  |
|                    | <b>Building, Infrastructure &amp; Construction Materials</b>                                     |                                     |                                                              |
| 104.               | Chlorinated polyvinyl chloride (CPVC) pipes for potable hot and cold-water distribution Supplies | Density (Clause 6.3.3)              | Cl.6.3.3, IS 15778:2007, IS 13360 (Part3/ Sec1)              |
| 105.               |                                                                                                  | Pipe ends                           | Cl.8 15778:2007                                              |
| 106.               |                                                                                                  | Dimension- OD at any point          | Cl.7.1 of IS 12235 (Part 1):2004                             |
| 107.               |                                                                                                  | Mean OD                             | Cl.7.1 of IS 12235 (Part 1):2004                             |
| 108.               |                                                                                                  | Wall thickness                      | Cl.7.1 .2 of IS 12235 (Part 1) :2004                         |
| 109.               |                                                                                                  | Reversion test                      | Cl.9.4, IS 15778:2007, IS 12235(Part 5/ Sec 1 & Sec 2) :2004 |
| 110.               |                                                                                                  | Vicat Softening temperature         | Cl.9.5 of IS 15778:2007, IS 12235 (Part 2)                   |
| 111.               | Chlorinated polyvinyl chloride (CPVC) pipes for potable hot and cold-water distribution Supplies | Density                             | Cl.9.6 of IS 13360(Part 3/ Sec1)                             |
| 112.               |                                                                                                  | Resistance to external blows at 0°C | Cl.10.3 of IS 15778:2007                                     |
| 113.               |                                                                                                  | Flattening test                     | Cl.10.4 of IS 15778:2007, IS 12235 (Part 19)                 |
| 114.               |                                                                                                  | Tensile Strength                    | Cl.10.5 of IS 15778:2007, IS 12235 (Part 13)                 |
| 115.               |                                                                                                  | Opacity                             | Cl.10.2 of IS 12235 (Part 3) :2021                           |

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| Mechanical Testing |                                                                                    |                                     |                                                  |
|--------------------|------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                                                        | Specific Tests Performed            | Test Method                                      |
|                    | <b>Building, Infrastructure &amp; Construction Materials</b>                       |                                     |                                                  |
| 116.               | Polyethylene pipes for water supply                                                | Reversion test                      | Cl.10.4 of IS 12235 (Part 5/Sec 1 & Sec 2) :2004 |
| 117.               |                                                                                    | Pipe Ends                           | Cl.9.1, 9.2 of IS 4985:2021                      |
| 118.               |                                                                                    | Wall Thickness                      | Cl.7.1.2 of IS 4985:2021, IS 12235 (Part 1)      |
| 119.               |                                                                                    | Outside Diameter at any Point       | Cl.7.1.1.2 of IS 4985:2021                       |
| 120.               |                                                                                    | Mean OD                             | Cl.7.1.1.1 of IS 4985:2021                       |
| 121.               |                                                                                    | Effective length                    | Cl.7.1.4 of IS 4985:2021                         |
| 122.               |                                                                                    | Dimension of Socket                 | Cl.7.2, IS 4985:2021                             |
| 123.               | Polyethylene pipes for water supply                                                | Vicat Softening temperature         | Cl.10.5, IS 4985:2021, IS 12235 (Part 2) :2021   |
| 124.               |                                                                                    | Density                             | Cl.10.6, IS 4985:2021                            |
| 125.               |                                                                                    | Resistance to external blows at 0°C | Cl.11.2, IS 12235 (Part 14) :2021                |
| 126.               | Unplasticized Polyvinyl chloride (PVC-U) pipes for soil and waste discharge system | Visual appearance & Pipe Ends       | Cl.8.1 13592:2013                                |
| 127.               |                                                                                    | Axial Shrinkage (Only for Type-B)   | Cl.10.3 of IS 13592 Annex –B:2013                |
| 128.               |                                                                                    | Reversion test                      | Cl.8.2 of IS 12235 (Part 5) :2021                |

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| Mechanical Testing |                                                                                    |                             |                                                     |
|--------------------|------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                                                        | Specific Tests Performed    | Test Method                                         |
|                    | <b>Building, Infrastructure &amp; Construction Materials</b>                       |                             |                                                     |
| 129.               |                                                                                    | Tensile Strength            | Cl.10.2 of IS 13592:2013, IS 12235 (Part 13)        |
| 130.               |                                                                                    | Stress Relief Test          | Cl.8.3 of IS 12235 (Part 6) :2021                   |
| 131.               |                                                                                    | Density/sp. gravity         | Cl.7 of IS 12235 (Part 14) :2021                    |
| 132.               |                                                                                    | Diameter at any point       | Cl.7 of IS 13592:2013                               |
| 133.               |                                                                                    | Mean OD                     | Cl.3.4 of IS 12235 (Part 1) :2021                   |
| 134.               |                                                                                    | Wall thickness              | Cl.7.1 of IS 12235 (Part 1) :2021                   |
| 135.               | Unplasticized Polyvinyl chloride (PVC-U) pipes for soil and waste discharge system | Length of pipe              | Cl.7.2 of IS 12235 (Part 1) :2021                   |
| 136.               |                                                                                    | Dimension of Socket         | Cl.7.3 of IS 12235 (Part 1) :2021                   |
| 137.               |                                                                                    | Vicat softening temperature | Cl.8.4 of IS 13592, IS 12235 (Part 2) :2021         |
| 138.               |                                                                                    | Impact Strength at 0 °C     | Cl.10.1 of IS 13592 Annex-A IS 12235 (Part 9) :2021 |
| 139.               | Fabricated PVC-U fittings for potable water supplies                               | Socket length               | Cl.3.2.2 of IS 10124 (Part 2):2009                  |
| 140.               |                                                                                    | Wall thickness              | Cl.3.2.2 of IS 10124 (Part 2) :2009                 |
| 141.               |                                                                                    | Opacity                     | Cl.10.2 of IS 10124, IS 12235 (Part 3) :2009        |

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| Mechanical Testing |                                                                             |                                 |                                                |
|--------------------|-----------------------------------------------------------------------------|---------------------------------|------------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                                                 | Specific Tests Performed        | Test Method                                    |
|                    | <b>Building, Infrastructure &amp; Construction Materials</b>                |                                 |                                                |
| 142.               | Ground granulated blast furnace slag for use in cement, mortar and concrete | Fineness                        | Cl.5.3 of IS 4031 (Part-2):1999                |
| 143.               |                                                                             | Slag activity index- at 7 Days  | Cl.7.1 of IS 4031-Part-6:1998                  |
| 144.               |                                                                             | Slag activity index- at 28 Days | Cl.7.1 of IS 4031-Part-6:1998                  |
| 145.               | Ultrafine ground granulated blast furnace slag                              | Fineness                        | Cl.5.3 of IS 4031(Part-2):1998                 |
| 146.               |                                                                             | Slag activity index- at 7 Days  | Cl.8.2 of IS 4031-PART-8:1998                  |
| 147.               |                                                                             | Slag activity index- at 28 Days | Cl.8.2 of IS 4031-PART-8:1998                  |
| 148.               | Specification for Powrahs                                                   | Dimension (Thickness)           | Cl.2 of IS 1759:1986                           |
| 149.               |                                                                             | Dimensions (Length)             | Cl.2 of IS 1759:1986                           |
| 150.               |                                                                             | Mass                            | Cl.4 of IS 1759:1986                           |
| 151.               |                                                                             | Hardness                        | Cl.5.2 of IS 1759:1986                         |
| 152.               |                                                                             | Drop Test                       | Cl.10.1 of IS 1759:1986                        |
| 153.               | Specification for round steel wire for ropes                                | Freedom from defects            | Cl.7.1 of IS 1835:1976                         |
| 154.               |                                                                             | Dimension (Diameter)            | Cl.10.1 of IS 1835:1976                        |
| 155.               |                                                                             | Tensile Test, Elongation (%)    | Cl.3.4.2 , 3.10.1 & 3.10.2 of IS 1608-1 : 2022 |
| 156.               |                                                                             | Torsion test                    | Cl.7 of IS 1717 : 2018                         |
| 157.               |                                                                             | Reverse bend test               | Cl.6 of IS 1716 : 2023                         |
| 158.               |                                                                             | Wrapping test                   | Cl.5.1 of IS 1755                              |

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| Mechanical Testing |                                                                                                                 |                              |                                                 |
|--------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                                                                                     | Specific Tests Performed     | Test Method                                     |
|                    | <b>Building, Infrastructure &amp; Construction Materials</b>                                                    |                              |                                                 |
| 159.               | Galvanized steel barbed wire for fencing                                                                        | Finish                       | Cl.9.1 of IS 278:2009                           |
| 160.               |                                                                                                                 | Sizes                        | Cl.5 of IS 278:2009                             |
| 161.               |                                                                                                                 | Mass                         | IS 278:2009                                     |
| 162.               |                                                                                                                 | Freedom from defects         | Cl.9 of IS 278:2009                             |
| 163.               |                                                                                                                 | Tensile Test, Elongation (%) | Cl.3.4.2 of 3.10.1 & 3.10.2 of IS 1608-1 : 2022 |
| 164.               |                                                                                                                 | Ductility Test               | Cl.12.3 of IS 1755                              |
| 165.               | Steel butt hinges                                                                                               | Dimensions (Thickness)       | Cl.5.1 of 5.2 of IS 1341:2018                   |
| 166.               |                                                                                                                 | Dimensions (Length)          | Cl.5.1 of 5.2 of IS 1341:2018                   |
| 167.               |                                                                                                                 | Manufacture                  | Cl.6.1 to 6.4 of IS 1341:2018                   |
| 168.               | Pig Iron                                                                                                        | Size                         | Cl.6.1 of IS 13502:2023                         |
| 169.               |                                                                                                                 | Mass                         | Cl.6.1 of IS 13502:2023                         |
| 170.               | Wooden Flush Door Shutters (Cellular, Hollow and Tubular Core Type) — Particle Board, High Density Fibre Board, | Dimensions (Thickness)       | Cl.5 of IS 2191 Part 2:2022                     |
| 171.               |                                                                                                                 | Dimensions (Length)          | Cl.5, IS 2191 Part 2:2022                       |
| 172.               |                                                                                                                 | Squareness                   | Cl.5 of IS 2191: Part-2:2022                    |

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# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

#### Bureau of Indian Standards

#### Patna Branch Laboratory

Pataliputra Industrial Estate, Behind P & M Mall,  
Patna-800013, Bihar, India

QAI/CIA/TL/2025/0146

Valid from: 14 October 2025  
Valid until: 13 October 2027

Accreditation Standard: ISO/IEC 17025:2017

| Mechanical Testing |                                                              |                                   |                                |
|--------------------|--------------------------------------------------------------|-----------------------------------|--------------------------------|
| Sl. No.            | Product(s)/Material of Test                                  | Specific Tests Performed          | Test Method                    |
|                    | <b>Building, Infrastructure &amp; Construction Materials</b> |                                   |                                |
| 173.               | Medium density fibre board and fibre hardboard face panels   | Knife Test                        | IS 1659:1979                   |
| 174.               |                                                              | Adhesion Test                     | IS 2191: Part-1:1983           |
| 175.               | Sulphate resisting port land cement                          | Fineness                          | Cl.5 of IS 4031(PART2) :1999   |
| 176.               |                                                              | Soundness by Autoclave            | Cl.6 of IS 4031-PART-3:1998    |
| 177.               |                                                              | Soundness by Le- chatelier Method | Cl.5 of IS 4031-PART-3:1998    |
| 178.               |                                                              | Setting time- Initial             | Cl.5.2 of IS 4031- PART-5:1998 |
| 179.               |                                                              | Setting Time-Final                | Cl.5.3 of IS 4031-PART-5:1998  |
| 180.               |                                                              | Compressive Strength- at 72 Hrs.  | Cl.7 of IS 4031-PART-6:1998    |
| 181.               |                                                              | Compressive Strength- at 168 Hrs. | Cl.7 of IS 4031-PART-6:1998    |
| 182.               |                                                              | Compressive Strength- at 672 Hrs. | Cl.7 of IS 4031-PART-6:1998    |
| 183.               | Rapid hardening port land cement                             | Fineness                          | Cl.6 of IS 4031(PART2) :1999   |



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| Mechanical Testing |                                                              |                                  |                               |
|--------------------|--------------------------------------------------------------|----------------------------------|-------------------------------|
| Sl. No.            | Product(s)/Material of Test                                  | Specific Tests Performed         | Test Method                   |
|                    | <b>Building, Infrastructure &amp; Construction Materials</b> |                                  |                               |
| 184.               | Rapid hardening port land cement                             | Soundness by Le Chatelier        | Cl.5 of IS 4031-PART-3:1998   |
| 185.               |                                                              | Soundness by Autoclave Expansion | Cl.6 of IS 4031-PART-3:1998   |
| 186.               |                                                              | Setting Time-Initial             | Cl.5.2 of IS 4031-PART-5:1998 |
| 187.               |                                                              | Setting Time-Final               | Cl.5.3 of IS 4031-PART-5:1998 |
| 188.               |                                                              | Compressive Strength at 24 Hrs.  | Cl.7 of IS 4031-PART-6:1998   |
| 189.               |                                                              | Compressive Strength at 72 Hrs.  | Cl.7 of IS 4031-PART-6:1998   |
| 190.               | Steel doors, windows and ventilators                         | Dimension (Length)               | Cl.4.1 of IS 1038:1983        |
| 191.               |                                                              | Thickness                        | Cl.4.2 of IS 1038:1983        |
| 192.               |                                                              | Finish                           | Cl.8.1 of IS 1038:1983        |
| 193.               |                                                              | Dimensions (Length)              | Cl.9 of IS 11513:2017         |
| 194.               | Hot rolled carbon steel strip for cold rolling purposes      | Thickness                        | Cl.9.4 of IS 11513:2017       |
| 195.               |                                                              | Weight                           | Cl.9 of IS 11513:2017         |
| 196.               |                                                              | Freedom from defects             | Cl.8 of IS 11513:2017         |



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| Mechanical Testing |                                                                                                                    |                                                                               |                                               |
|--------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------|
| Sl. No.            | Product(s)/Material of Test                                                                                        | Specific Tests Performed                                                      | Test Method                                   |
|                    | <b>Building, Infrastructure &amp; Construction Materials</b>                                                       |                                                                               |                                               |
| 197.               | Carbon steel cast billet Ingots, billets, blooms and slabs For Re-rolling into structural steel (Ordinary Quality) | Freedom from defects                                                          | Cl.9.1 of IS 2831:2012                        |
| 198.               |                                                                                                                    | Dimensions (Thickness)                                                        | Cl.12.2 of IS 2831:2012                       |
| 199.               | Mild steel for metal Arc welding electrodes                                                                        | Dimensions, Length and Maximum Difference between two readings (Out of shape) | Cl.8.1,8.2.9.1,9.2,9.3 of IS 2879:1998        |
| 200.               |                                                                                                                    | Freedom from defects                                                          | Cl.7 of IS 2879:1998                          |
| 201.               | Mild steel wire rod for general engineering purposes                                                               | Freedom from Defects                                                          | Cl.8 of IS 7887:1992                          |
| 202.               |                                                                                                                    | Dimensions (OD)                                                               | Cl.9.2 of IS 7887:1992                        |
| 203.               |                                                                                                                    | Ovality                                                                       | Cl.9.3 of IS 7887:1992                        |
| 204.               | Steel tubes for idlers for belt conveyors                                                                          | Straightness                                                                  | Cl.15.1 of IS 9295:1983                       |
| 205.               |                                                                                                                    | Dimension -Length                                                             | Cl.16.1, 16.2 of IS 9295:1983                 |
| 206.               |                                                                                                                    | Tensile Test, Elongation (%)                                                  | Cl.3.4.2, 3.10.1 & 3.10.2 of IS 1608-1 : 2022 |
| 207.               |                                                                                                                    | Flattening test                                                               | Cl.8.3, 12.1 of IS 9295:2024                  |
| 208.               |                                                                                                                    | Drift Expansion Test                                                          | Cl.8.2, 12.1 of IS 9295:2024                  |
| 209.               |                                                                                                                    | Hardness Test                                                                 | Cl.10.1 of IS 9295:2024                       |

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|--------------------|-----------------------------|-------------------------------|-------------------------|
| Sl. No.            | Product(s)/Material of Test | Specific Tests Performed      | Test Method             |
|                    | Textile Material            |                               |                         |
| 1.                 | School bags                 | Shape and Dimensions (Length) | Cl.3 of IS 10228:1982   |
| 2.                 |                             | Workmanship & finish          | Cl.5 of IS 10228:1982   |
| 3.                 |                             | Drop Tests                    | Cl.7.1 of IS 10228:1982 |
| 4.                 |                             | Handle Snatch Tests           | Cl.7.2 of IS 10228:1982 |

