



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

METL - ME TESTING PRIVATE LIMITED, C11, GROUND FLOOR, SANSKAAR VIHAR C, KANAKPURA,  
MAAL GODAM, MEENAWALA, JAIPUR, RAJASTHAN, INDIA

**Accreditation Standard**

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| Permanent Testing |                             |                              |                                                                                                            |                                                                                                      |
| 1                 | CHEMICAL- BUILDING MATERIAL | Admixture                    | Ash Content                                                                                                | IS 9103                                                                                              |
| 2                 | CHEMICAL- BUILDING MATERIAL | Admixture                    | Chloride Content                                                                                           | IS 6925                                                                                              |
| 3                 | CHEMICAL- BUILDING MATERIAL | Admixture                    | Dry Material Content                                                                                       | IS 9103                                                                                              |
| 4                 | CHEMICAL- BUILDING MATERIAL | Admixture                    | pH Value                                                                                                   | IS 9103                                                                                              |
| 5                 | CHEMICAL- BUILDING MATERIAL | Admixture                    | Relative Density                                                                                           | IS 9103                                                                                              |
| 6                 | CHEMICAL- BUILDING MATERIAL | Aggregate                    | Chloride                                                                                                   | IS 14959 (Part-2)                                                                                    |
| 7                 | CHEMICAL- BUILDING MATERIAL | Aggregate                    | Organic Impurity                                                                                           | IS 2386 (Part 2)                                                                                     |
| 8                 | CHEMICAL- BUILDING MATERIAL | Aggregate                    | Potential Alkali Reactivity Dissolved Silica                                                               | IS 2386 (Part 7)                                                                                     |
| 9                 | CHEMICAL- BUILDING MATERIAL | Aggregate                    | Potential Alkali Reactivity Reduction in Alkalinity                                                        | IS 2386 (Part 7)                                                                                     |
| 10                | CHEMICAL- BUILDING MATERIAL | Aggregate                    | Sulphate (as SO <sub>3</sub> )                                                                             | IS 4032                                                                                              |
| 11                | CHEMICAL- BUILDING MATERIAL | Bitumen                      | Solubility in Trichloroethylene                                                                            | IS 1216                                                                                              |
| 12                | CHEMICAL- BUILDING MATERIAL | Concrete & Cement Mortar     | Chloride as Cl                                                                                             | IS 14959 (Part-2)                                                                                    |
| 13                | CHEMICAL- BUILDING MATERIAL | Concrete & Cement Mortar     | Sulphate as SO <sub>3</sub>                                                                                | IS 4032                                                                                              |
| 14                | CHEMICAL- BUILDING MATERIAL | Fly Ash                      | (Alumina + Iron oxide)                                                                                     | IS 1727                                                                                              |
| 15                | CHEMICAL- BUILDING MATERIAL | Fly Ash                      | Chloride as Cl                                                                                             | IS 4032                                                                                              |
| 16                | CHEMICAL- BUILDING MATERIAL | Fly Ash                      | Loss On Ignition                                                                                           | IS 1727                                                                                              |



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| 17   | CHEMICAL- BUILDING MATERIAL | Fly Ash                      | Magnesia (as MgO)                                                                                          | IS 1727                                                                                              |
| 18   | CHEMICAL- BUILDING MATERIAL | Fly Ash                      | Total Alkalies (as Na <sub>2</sub> O)                                                                      | IS 4032                                                                                              |
| 19   | CHEMICAL- BUILDING MATERIAL | Fly Ash                      | Total Sulphur (as SO <sub>3</sub> )                                                                        | IS 1727                                                                                              |
| 20   | CHEMICAL- BUILDING MATERIAL | GGBS                         | Alumina (as Al <sub>2</sub> O <sub>3</sub> )                                                               | IS 4032 Cl. 4.6                                                                                      |
| 21   | CHEMICAL- BUILDING MATERIAL | GGBS                         | Calcium Oxide (as CaO)                                                                                     | IS 4032 Cl. 4.7                                                                                      |
| 22   | CHEMICAL- BUILDING MATERIAL | GGBS                         | Chloride (as Cl)                                                                                           | IS 4032 Amend 2                                                                                      |
| 23   | CHEMICAL- BUILDING MATERIAL | GGBS                         | Insoluble residue                                                                                          | IS 4032 Cl. 4.10                                                                                     |
| 24   | CHEMICAL- BUILDING MATERIAL | GGBS                         | Loss on Ignition                                                                                           | IS 4032 Cl. 4.2                                                                                      |
| 25   | CHEMICAL- BUILDING MATERIAL | GGBS                         | Magnesia (as MgO)                                                                                          | IS 4032 Cl. 4.8                                                                                      |
| 26   | CHEMICAL- BUILDING MATERIAL | GGBS                         | Sulphide Sulphur(as S)                                                                                     | IS 4032 Cl. 6.12                                                                                     |
| 27   | CHEMICAL- BUILDING MATERIAL | GGBS                         | Sulphuric Anhydride (as SO <sub>3</sub> )                                                                  | IS 4032 Cl. 4.9                                                                                      |
| 28   | CHEMICAL- BUILDING MATERIAL | OPC                          | Alumina (as Al <sub>2</sub> O <sub>3</sub> )                                                               | IS 4032 Cl. 4.6                                                                                      |
| 29   | CHEMICAL- BUILDING MATERIAL | OPC                          | Calcium Oxide (as CaO)                                                                                     | IS 4032 Cl. 4.7                                                                                      |
| 30   | CHEMICAL- BUILDING MATERIAL | OPC                          | Chloride (as Cl)                                                                                           | IS 4032 Amend 2                                                                                      |
| 31   | CHEMICAL- BUILDING MATERIAL | OPC                          | Insoluble residue                                                                                          | IS 4032 Cl. 4.10                                                                                     |
| 32   | CHEMICAL- BUILDING MATERIAL | OPC                          | Iron Oxide(as Fe <sub>2</sub> O <sub>3</sub> )                                                             | IS 4032 Cl. 4.5                                                                                      |



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| 33   | CHEMICAL- BUILDING MATERIAL | OPC                          | Loss on Ignition                                                                                           | IS 4032 Cl. 4.2                                                                                      |
| 34   | CHEMICAL- BUILDING MATERIAL | OPC                          | Magnesia (as MgO)                                                                                          | IS 4032 Cl. 4.8                                                                                      |
| 35   | CHEMICAL- BUILDING MATERIAL | OPC                          | Sulphide Sulphur(as S)                                                                                     | IS 4032 Cl. 6.12                                                                                     |
| 36   | CHEMICAL- BUILDING MATERIAL | OPC                          | Sulphuric Anhydride (as SO <sub>3</sub> )                                                                  | IS 4032 Cl. 4.9                                                                                      |
| 37   | CHEMICAL- BUILDING MATERIAL | PPC                          | Chloride (as Cl)                                                                                           | IS 4032 Amend 2                                                                                      |
| 38   | CHEMICAL- BUILDING MATERIAL | PPC                          | Insoluble residue                                                                                          | IS 4032 Cl. 4.10                                                                                     |
| 39   | CHEMICAL- BUILDING MATERIAL | PPC                          | Loss on Ignition                                                                                           | IS 4032 Cl. 4.2                                                                                      |
| 40   | CHEMICAL- BUILDING MATERIAL | PPC                          | Magnesia (as MgO)                                                                                          | IS 4032 Cl. 4.8                                                                                      |
| 41   | CHEMICAL- BUILDING MATERIAL | PPC                          | Sulphuric Anhydride (as SO <sub>3</sub> )                                                                  | IS 4032 Cl. 4.9                                                                                      |
| 42   | CHEMICAL- BUILDING MATERIAL | SLAG                         | Calcium Oxide (as CaO)                                                                                     | IS 4032 Cl. 4.7                                                                                      |
| 43   | CHEMICAL- BUILDING MATERIAL | SLAG                         | Chloride (as Cl)                                                                                           | IS 4032 Amend 2                                                                                      |
| 44   | CHEMICAL- BUILDING MATERIAL | SLAG                         | Insoluble residue                                                                                          | IS 4032 Cl. 4.10                                                                                     |
| 45   | CHEMICAL- BUILDING MATERIAL | SLAG                         | Loss on Ignition                                                                                           | IS 4032 Cl. 4.2                                                                                      |
| 46   | CHEMICAL- BUILDING MATERIAL | SLAG                         | Magnesia (as MgO)                                                                                          | IS 4032 Cl. 4.8                                                                                      |
| 47   | CHEMICAL- BUILDING MATERIAL | SLAG                         | Sulphide Sulphur(as S)                                                                                     | IS 4032 Cl. 6.12                                                                                     |
| 48   | CHEMICAL- BUILDING MATERIAL | SLAG                         | Sulphuric Anhydride (as SO <sub>3</sub> )                                                                  | IS 4032 Cl. 4.9                                                                                      |



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| 49   | CHEMICAL- BUILDING MATERIAL                       | UGGBS                            | Alumina (as Al <sub>2</sub> O <sub>3</sub> )                                                               | IS 4032 Cl. 4.6                                                                                      |
| 50   | CHEMICAL- BUILDING MATERIAL                       | UGGBS                            | Calcium Oxide (as CaO)                                                                                     | IS 4032 Cl. 4.7                                                                                      |
| 51   | CHEMICAL- BUILDING MATERIAL                       | UGGBS                            | Chloride (as Cl)                                                                                           | IS 4032 Amend 2                                                                                      |
| 52   | CHEMICAL- BUILDING MATERIAL                       | UGGBS                            | Insoluble residue                                                                                          | IS 4032 Cl. 4.10                                                                                     |
| 53   | CHEMICAL- BUILDING MATERIAL                       | UGGBS                            | Loss on Ignition                                                                                           | IS 4032 Cl. 4.2                                                                                      |
| 54   | CHEMICAL- BUILDING MATERIAL                       | UGGBS                            | Magnesia (as MgO)                                                                                          | IS 4032 Cl. 4.8                                                                                      |
| 55   | CHEMICAL- BUILDING MATERIAL                       | UGGBS                            | Sulphide Sulphur(as S)                                                                                     | IS 4032 Cl. 6.12                                                                                     |
| 56   | CHEMICAL- BUILDING MATERIAL                       | UGGBS                            | Sulphuric Anhydride (as SO <sub>3</sub> )                                                                  | IS 4032 Cl. 4.9                                                                                      |
| 57   | CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS | Metallic Coating                 | Zinc Coating                                                                                               | IS 6745                                                                                              |
| 58   | CHEMICAL- METALS & ALLOYS                         | HT Strand Wire/Rope Wire         | Carbon                                                                                                     | IS 228 (Part-1)                                                                                      |
| 59   | CHEMICAL- METALS & ALLOYS                         | HT Strand Wire/Rope Wire         | Manganese                                                                                                  | IS 228 (Part 2)                                                                                      |
| 60   | CHEMICAL- METALS & ALLOYS                         | HT Strand Wire/Rope Wire         | Silicon                                                                                                    | IS 228 (Part 8)                                                                                      |
| 61   | CHEMICAL- METALS & ALLOYS                         | HT Strand/Rope Wire              | Phosphorus                                                                                                 | IS 228 (Part 3)                                                                                      |
| 62   | CHEMICAL- METALS & ALLOYS                         | HT Strand/Rope Wire              | Sulphur                                                                                                    | IS 228(Part 9)                                                                                       |
| 63   | CHEMICAL- METALS & ALLOYS                         | MILD STEEL/LOW ALLOY STEEL/SS/CI | Aluminium, Al                                                                                              | ASTM-E-415                                                                                           |
| 64   | CHEMICAL- METALS & ALLOYS                         | MILD STEEL/LOW ALLOY STEEL/SS/CI | Boron, B                                                                                                   | ASTM-E-415                                                                                           |



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| 65   | CHEMICAL- METALS & ALLOYS | MILD STEEL/LOW ALLOY STEEL/SS/CI | Carbon, C                                                                                                  | ASTM-E-415                                                                                           |
| 66   | CHEMICAL- METALS & ALLOYS | MILD STEEL/LOW ALLOY STEEL/SS/CI | Chromium, Cr                                                                                               | ASTM-E-415                                                                                           |
| 67   | CHEMICAL- METALS & ALLOYS | MILD STEEL/LOW ALLOY STEEL/SS/CI | Cobalt, Co                                                                                                 | ASTM-E-415                                                                                           |
| 68   | CHEMICAL- METALS & ALLOYS | MILD STEEL/LOW ALLOY STEEL/SS/CI | Copper,Cu                                                                                                  | ASTM-E-415                                                                                           |
| 69   | CHEMICAL- METALS & ALLOYS | MILD STEEL/LOW ALLOY STEEL/SS/CI | Lead, Pb                                                                                                   | ASTM-E-415                                                                                           |
| 70   | CHEMICAL- METALS & ALLOYS | MILD STEEL/LOW ALLOY STEEL/SS/CI | Manganese, Mn                                                                                              | ASTM-E-415                                                                                           |
| 71   | CHEMICAL- METALS & ALLOYS | MILD STEEL/LOW ALLOY STEEL/SS/CI | Molybdenum, Mo                                                                                             | ASTM-E-415                                                                                           |
| 72   | CHEMICAL- METALS & ALLOYS | MILD STEEL/LOW ALLOY STEEL/SS/CI | Nickel, Ni                                                                                                 | ASTM-E-415                                                                                           |
| 73   | CHEMICAL- METALS & ALLOYS | MILD STEEL/LOW ALLOY STEEL/SS/CI | Niobium, Nb                                                                                                | ASTM-E-415                                                                                           |
| 74   | CHEMICAL- METALS & ALLOYS | MILD STEEL/LOW ALLOY STEEL/SS/CI | Phosphorous, P                                                                                             | ASTM-E-415                                                                                           |
| 75   | CHEMICAL- METALS & ALLOYS | MILD STEEL/LOW ALLOY STEEL/SS/CI | Silicon, Si                                                                                                | ASTM-E-415                                                                                           |
| 76   | CHEMICAL- METALS & ALLOYS | MILD STEEL/LOW ALLOY STEEL/SS/CI | Sulphur,S                                                                                                  | ASTM-E-415                                                                                           |
| 77   | CHEMICAL- METALS & ALLOYS | MILD STEEL/LOW ALLOY STEEL/SS/CI | Titanium, Ti                                                                                               | ASTM-E-415                                                                                           |
| 78   | CHEMICAL- METALS & ALLOYS | MILD STEEL/LOW ALLOY STEEL/SS/CI | Vanadium, V                                                                                                | ASTM-E-415                                                                                           |
| 79   | CHEMICAL- METALS & ALLOYS | Reinforced Steel/Low Alloy Steel | Carbon (as C)                                                                                              | IS 228 (Part 1)                                                                                      |
| 80   | CHEMICAL- METALS & ALLOYS | Reinforced Steel/Low alloy Steel | Chromium(as Cr)                                                                                            | IS 228 (Part 6)                                                                                      |



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| 81   | CHEMICAL- METALS & ALLOYS         | Reinforced Steel/Low Alloy steel | Manganese(as Mn)                                                                                           | IS 228 (Part 2)                                                                                      |
| 82   | CHEMICAL- METALS & ALLOYS         | Reinforced Steel/low alloy steel | Nickel(as Ni)                                                                                              | IS 228 (Part 5)                                                                                      |
| 83   | CHEMICAL- METALS & ALLOYS         | Reinforced Steel/Low Alloy Steel | Phosphorous (as P)                                                                                         | IS 228 (Part 3)                                                                                      |
| 84   | CHEMICAL- METALS & ALLOYS         | Reinforced Steel/Low Alloy Steel | Silicon( as Si)                                                                                            | IS 228 (Part 8)                                                                                      |
| 85   | CHEMICAL- METALS & ALLOYS         | Reinforced Steel/Low Alloy Steel | Sulphur(as S)                                                                                              | IS 228 (Part 9)                                                                                      |
| 86   | CHEMICAL- METALS & ALLOYS         | Stainless Steel                  | Carbon (as C)                                                                                              | IS 228 (Part 1)                                                                                      |
| 87   | CHEMICAL- METALS & ALLOYS         | Stainless Steel                  | Chromium(as Cr)                                                                                            | IS 228 (Part 6)                                                                                      |
| 88   | CHEMICAL- METALS & ALLOYS         | Stainless Steel                  | Manganese(as Mn)                                                                                           | IS 228 (Part 2)                                                                                      |
| 89   | CHEMICAL- METALS & ALLOYS         | Stainless Steel                  | Nickel(as Ni)                                                                                              | IS 228 (Part 5)                                                                                      |
| 90   | CHEMICAL- METALS & ALLOYS         | Stainless Steel                  | Phosphorous (as P)                                                                                         | IS 228 (Part 3)                                                                                      |
| 91   | CHEMICAL- METALS & ALLOYS         | Stainless Steel                  | Silicon( as Si)                                                                                            | IS 228 (Part 8)                                                                                      |
| 92   | CHEMICAL- METALS & ALLOYS         | Stainless Steel                  | Sulphur(as S)                                                                                              | IS 228 (Part 9)                                                                                      |
| 93   | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Waer                       | BOD                                                                                                        | IS 3025 (Part 44)                                                                                    |
| 94   | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water                      | COD                                                                                                        | IS 3025 (Part 58)                                                                                    |
| 95   | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water                      | Dissolved Oxygen                                                                                           | IS 3025 (Part 38)                                                                                    |



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| 96   | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water                  | Oil & Grease                                                                                               | IS 3025 (Part 39)                                                                                    |
| 97   | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water                  | pH                                                                                                         | IS 3025 (Part 11)                                                                                    |
| 98   | CHEMICAL- SOIL AND ROCK           | Soil                         | Electric Conductivity                                                                                      | IS 14767                                                                                             |
| 99   | CHEMICAL- SOIL AND ROCK           | Soil                         | Nitrogen                                                                                                   | IS 14684                                                                                             |
| 100  | CHEMICAL- SOIL AND ROCK           | Soil                         | Organic Matter                                                                                             | IS 2720 (P-22)                                                                                       |
| 101  | CHEMICAL- SOIL AND ROCK           | Soil                         | pH value                                                                                                   | IS 2720 (Part 26)                                                                                    |
| 102  | CHEMICAL- SOIL AND ROCK           | Soil                         | Potassium                                                                                                  | IS 9497                                                                                              |
| 103  | CHEMICAL- SOIL AND ROCK           | Soil                         | Total Soluble Solids                                                                                       | IS 2720 (Part 21)                                                                                    |
| 104  | CHEMICAL- SOIL AND ROCK           | Soil                         | Total Soluble Sulphate                                                                                     | IS 2720 (Part 27)                                                                                    |
| 105  | CHEMICAL- WATER                   | Drinking Water               | Arsenic                                                                                                    | IS 3025 (Part 37)                                                                                    |
| 106  | CHEMICAL- WATER                   | Drinking Water               | Calcium                                                                                                    | APHA 24th Edition-EDTA Titrimetric method                                                            |
| 107  | CHEMICAL- WATER                   | Drinking Water               | Chloride                                                                                                   | IS 3025 (Part 32)                                                                                    |
| 108  | CHEMICAL- WATER                   | Drinking Water               | colour                                                                                                     | IS 3025 (Part 4)                                                                                     |
| 109  | CHEMICAL- WATER                   | Drinking Water               | Fluoride                                                                                                   | APHA 24th Edition-SPADNS Method                                                                      |
| 110  | CHEMICAL- WATER                   | Drinking Water               | Hardness                                                                                                   | IS 3025 (Part 21)                                                                                    |
| 111  | CHEMICAL- WATER                   | Drinking Water               | Iron                                                                                                       | IS 3025 (Part 53)                                                                                    |
| 112  | CHEMICAL- WATER                   | Drinking Water               | Magnesium                                                                                                  | APHA 24th Edition-Calculation Method                                                                 |
| 113  | CHEMICAL- WATER                   | Drinking Water               | Odour                                                                                                      | IS 3025 (Part 5)                                                                                     |



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| 114  | CHEMICAL- WATER    | Drinking Water                 | pH                                                                                                         | IS 3025 (Part 11)                                                                                    |
| 115  | CHEMICAL- WATER    | Drinking Water                 | Potassium                                                                                                  | IS 3025 (Part 45)                                                                                    |
| 116  | CHEMICAL- WATER    | Drinking Water                 | Residual Chlorine                                                                                          | IS 3025 (Part 26)                                                                                    |
| 117  | CHEMICAL- WATER    | Drinking Water                 | Sodium                                                                                                     | IS 3025 (Part 45)                                                                                    |
| 118  | CHEMICAL- WATER    | Drinking Water                 | Sulphate as SO <sub>4</sub>                                                                                | IS 3025 (Part 24 Sec-2)                                                                              |
| 119  | CHEMICAL- WATER    | Drinking Water                 | Total Alkalinity                                                                                           | IS 3025 (Part 23)                                                                                    |
| 120  | CHEMICAL- WATER    | Drinking Water                 | Total Dissolved Solids                                                                                     | IS 3025 (Part 16)                                                                                    |
| 121  | CHEMICAL- WATER    | Water for construction purpose | Acidity as NaOH                                                                                            | IS 3025 (Part 22)                                                                                    |
| 122  | CHEMICAL- WATER    | Water for construction purpose | Alkalinity As H <sub>2</sub> SO <sub>4</sub>                                                               | IS 3025 (Part 23)                                                                                    |
| 123  | CHEMICAL- WATER    | Water for construction purpose | Chloride                                                                                                   | IS 3025 (Part 32)                                                                                    |
| 124  | CHEMICAL- WATER    | Water for construction purpose | Inorganic Solids                                                                                           | IS 3025 (Part 18)                                                                                    |
| 125  | CHEMICAL- WATER    | Water for construction purpose | Organic Solids                                                                                             | IS 3025 (Part 18)                                                                                    |
| 126  | CHEMICAL- WATER    | Water for construction purpose | pH                                                                                                         | IS 3025 (Part 11)                                                                                    |
| 127  | CHEMICAL- WATER    | Water for construction purpose | Sulphate                                                                                                   | IS 3025 (Part 24 Sec-1)                                                                              |
| 128  | CHEMICAL- WATER    | Water for construction purpose | Suspended Solids                                                                                           | IS 3025 (Part 17)                                                                                    |