



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

PTP Name :

DEEP METALLURGICAL SERVICES, UNIT NO 20, NEW MODELLA INDUSTRIAL ESTATE,
PADWAL NAGAR, THANE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17043: 2010

Certificate Number

PC-1045

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Validity

08/11/2022 to 07/11/2024

Last Amended on

30/11/2022

| S.No | Discipline/ Sub-discipline | Proficiency Testing Scheme/ Type of PT Item/ Matrix | Measurand/ Characteristic/ Type of measurand/ Type of characteristic/ Analyte/ Parameter |
|------|----------------------------|--|---|
| 1 | TESTING-CHEMICAL | Simultaneous Scheme/ Aluminum alloys, spark OES | Chromium |
| 2 | TESTING-CHEMICAL | Simultaneous Scheme/ Aluminum alloys, spark OES | Copper |
| 3 | TESTING-CHEMICAL | Simultaneous Scheme/ Aluminum alloys, spark OES | Iron |
| 4 | TESTING-CHEMICAL | Simultaneous Scheme/ Aluminum alloys, spark OES | Magnesium |
| 5 | TESTING-CHEMICAL | Simultaneous Scheme/ Aluminum alloys, spark OES | Silicon |
| 6 | TESTING-CHEMICAL | Simultaneous Scheme/ Aluminum alloys, spark OES | Titanium |
| 7 | TESTING-CHEMICAL | Simultaneous Scheme/ Aluminum alloys, spark OES | Zinc |
| 8 | TESTING-CHEMICAL | Simultaneous Scheme/ Aluminum alloys Spark OES | Lead |
| 9 | TESTING-CHEMICAL | Simultaneous Scheme/ Aluminum alloys spark OES | Nickel |
| 10 | TESTING-CHEMICAL | Simultaneous Scheme/ Aluminum alloys spark OES | Vanadium |
| 11 | TESTING-CHEMICAL | Simultaneous Scheme/ Cast Iron Spark OES | Carbon |
| 12 | TESTING-CHEMICAL | Simultaneous Scheme/ Cast Iron Spark OES | Chromium |
| 13 | TESTING-CHEMICAL | Simultaneous Scheme/ Cast Iron Spark OES | Copper |
| 14 | TESTING-CHEMICAL | Simultaneous Scheme/ Cast Iron Spark OES | Manganese |
| 15 | TESTING-CHEMICAL | Simultaneous Scheme/ Cast Iron Spark OES | Molybdenum |



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|------|----------------------------|--|---|
| 16 | TESTING-CHEMICAL | Simultaneous Scheme/ Cast Iron Spark OES | Nickel |
| 17 | TESTING-CHEMICAL | Simultaneous Scheme/ Cast Iron Spark OES | Phosphorus |
| 18 | TESTING-CHEMICAL | Simultaneous Scheme/ Cast Iron Spark OES | Silicon |
| 19 | TESTING-CHEMICAL | Simultaneous Scheme/ Cast Iron Spark OES | Sulphur |
| 20 | TESTING-CHEMICAL | Simultaneous Scheme/ Copper alloys Spark OES | Antimony |
| 21 | TESTING-CHEMICAL | Simultaneous Scheme/ Copper alloys Spark OES | Iron |
| 22 | TESTING-CHEMICAL | Simultaneous Scheme/ Copper alloys Spark OES | Lead |
| 23 | TESTING-CHEMICAL | Simultaneous Scheme/ Copper alloys Spark OES | Manganese |
| 24 | TESTING-CHEMICAL | Simultaneous Scheme/ Copper alloys Spark OES | Nickel |
| 25 | TESTING-CHEMICAL | Simultaneous Scheme/ Copper alloys Spark OES | Phosphorus |
| 26 | TESTING-CHEMICAL | Simultaneous Scheme/ Copper alloys Spark OES | Silicon |
| 27 | TESTING-CHEMICAL | Simultaneous Scheme/ Copper alloys Spark OES | Tin |
| 28 | TESTING-CHEMICAL | Simultaneous Scheme/ Copper alloys Spark OES | Zinc |
| 29 | TESTING-CHEMICAL | Simultaneous Scheme/ Copper alloys, Spark OES | Aluminum |
| 30 | TESTING-CHEMICAL | Simultaneous Scheme/ Galvanized Products/ Corrosion | Salt spray |



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|------|----------------------------|--|---|
| 31 | TESTING-CHEMICAL | Simultaneous Scheme/ Low alloy steel , Spark OES | Aluminum |
| 32 | TESTING-CHEMICAL | Simultaneous Scheme/ Low alloy steel , Spark OES | Nitrogen |
| 33 | TESTING-CHEMICAL | Simultaneous Scheme/ Low alloy steel , spark OES | Sulphur |
| 34 | TESTING-CHEMICAL | Simultaneous Scheme/ Low alloy steel Spark OES | Carbon |
| 35 | TESTING-CHEMICAL | Simultaneous Scheme/ Low alloy steel, spark OES | Carbon |
| 36 | TESTING-CHEMICAL | Simultaneous Scheme/ Low alloy steel, Spark OES | Chromium |
| 37 | TESTING-CHEMICAL | Simultaneous Scheme/ Low alloy steel, Spark OES | Copper |
| 38 | TESTING-CHEMICAL | Simultaneous Scheme/ Low alloy steel, spark OES | Manganese |
| 39 | TESTING-CHEMICAL | Simultaneous Scheme/ Low alloy steel, spark OES | Molybdenum |
| 40 | TESTING-CHEMICAL | Simultaneous Scheme/ Low alloy steel, Spark OES | Nickel |
| 41 | TESTING-CHEMICAL | Simultaneous Scheme/ Low alloy steel, Spark OES | Niobium |
| 42 | TESTING-CHEMICAL | Simultaneous Scheme/ Low alloy steel, Spark OES | Titanium |
| 43 | TESTING-CHEMICAL | Simultaneous Scheme/ Low alloy steel, Spark OES | Vanadium |
| 44 | TESTING-CHEMICAL | Simultaneous Scheme/ Low alloy steel, sprak OES | Phosphorus |
| 45 | TESTING-CHEMICAL | Simultaneous Scheme/ Low alloy steel, sprak OES | Silicon |



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|------|----------------------------|---|---|
| 46 | TESTING-CHEMICAL | Simultaneous Scheme/ Low alloy steel, wet chemical analysis | Carbon |
| 47 | TESTING-CHEMICAL | Simultaneous Scheme/ Low alloy steel, wet chemical analysis | Chromium |
| 48 | TESTING-CHEMICAL | Simultaneous Scheme/ Low alloy steel, wet chemical analysis | Manganese |
| 49 | TESTING-CHEMICAL | Simultaneous Scheme/ Low alloy steel, wet chemical analysis | Molybdenum |
| 50 | TESTING-CHEMICAL | Simultaneous Scheme/ Low alloy steel, wet chemical analysis | Nickel |
| 51 | TESTING-CHEMICAL | Simultaneous Scheme/ Low alloy steel, wet chemical analysis | Silicon |
| 52 | TESTING-CHEMICAL | Simultaneous Scheme/ Low alloy steel, wet chemical analysis | Sulphur |
| 53 | TESTING-CHEMICAL | Simultaneous Scheme/ Nickel alloys Spark OES | Carbon |
| 54 | TESTING-CHEMICAL | Simultaneous Scheme/ Nickel alloys Spark OES | Manganese |
| 55 | TESTING-CHEMICAL | Simultaneous Scheme/ Nickel alloys Spark OES | Phosphorus |
| 56 | TESTING-CHEMICAL | Simultaneous Scheme/ Nickel alloys Spark OES | Silicon |
| 57 | TESTING-CHEMICAL | Simultaneous Scheme/ Nickel Alloys Spark OES | Sulphur |
| 58 | TESTING-CHEMICAL | Simultaneous Scheme/ Nickel alloys, Spark OES | Aluminum |
| 59 | TESTING-CHEMICAL | Simultaneous Scheme/ Nickel alloys, Spark OES | Chromium |
| 60 | TESTING-CHEMICAL | Simultaneous Scheme/ Nickel alloys, Spark OES | Cobalt |



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|------|----------------------------|--|---|
| 61 | TESTING-CHEMICAL | Simultaneous Scheme/ Nickel alloys, Spark OES | Copper |
| 62 | TESTING-CHEMICAL | Simultaneous Scheme/ Nickel alloys, Spark OES | Iron |
| 63 | TESTING-CHEMICAL | Simultaneous Scheme/ Nickel alloys, Spark OES | Molybdenum |
| 64 | TESTING-CHEMICAL | Simultaneous Scheme/ Nickel alloys, Spark OES | Niobium |
| 65 | TESTING-CHEMICAL | Simultaneous Scheme/ Nickel alloys, Spark OES | Tungsten |
| 66 | TESTING-CHEMICAL | Simultaneous Scheme/ Nickel alloys, Spark OES | Vanadium |
| 67 | TESTING-CHEMICAL | Simultaneous Scheme/ Stainless steel Spark OES | Cobalt |
| 68 | TESTING-CHEMICAL | Simultaneous Scheme/ Stainless steel Spark OES | Copper |
| 69 | TESTING-CHEMICAL | Simultaneous Scheme/ Stainless steel Spark OES | Nitrogen |
| 70 | TESTING-CHEMICAL | Simultaneous Scheme/ Stainless steel, spark OES | Carbon |
| 71 | TESTING-CHEMICAL | Simultaneous Scheme/ Stainless steel, spark OES | Chromium |
| 72 | TESTING-CHEMICAL | Simultaneous Scheme/ Stainless steel, spark OES | Manganese |
| 73 | TESTING-CHEMICAL | Simultaneous Scheme/ Stainless steel, spark OES | Molybdenum |
| 74 | TESTING-CHEMICAL | Simultaneous Scheme/ Stainless steel, spark OES | Nickel |
| 75 | TESTING-CHEMICAL | Simultaneous Scheme/ Stainless steel, spark OES | Phosphorus |



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|------|----------------------------|---|---|
| 76 | TESTING-CHEMICAL | Simultaneous Scheme/ Stainless steel, spark OES | Silicon |
| 77 | TESTING-CHEMICAL | Simultaneous Scheme/ Stainless steel, spark OES | Sulphur |
| 78 | TESTING-CHEMICAL | Simultaneous Scheme/ Stainless steel, wet chemical analysis | Carbon |
| 79 | TESTING-CHEMICAL | Simultaneous Scheme/ Stainless steel, wet chemical analysis | Chromium |
| 80 | TESTING-CHEMICAL | Simultaneous Scheme/ Stainless steel, wet chemical analysis | Manganese |
| 81 | TESTING-CHEMICAL | Simultaneous Scheme/ Stainless steel, wet chemical analysis | Molybdenum |
| 82 | TESTING-CHEMICAL | Simultaneous Scheme/ Stainless steel, wet chemical analysis | Nickel |
| 83 | TESTING-CHEMICAL | Simultaneous Scheme/ Stainless steel, wet chemical analysis | Silicon |
| 84 | TESTING-CHEMICAL | Simultaneous Scheme/ Stainless steel, wet chemical analysis | Sulphur |
| 85 | TESTING-CHEMICAL | Simultaneous Scheme/ Tool steel Spark OES | Aluminum |
| 86 | TESTING-CHEMICAL | Simultaneous Scheme/ Tool steel Spark OES | Carbon |
| 87 | TESTING-CHEMICAL | Simultaneous Scheme/ Tool steel Spark OES | Chromium |
| 88 | TESTING-CHEMICAL | Simultaneous Scheme/ Tool steel Spark OES | Cobalt |
| 89 | TESTING-CHEMICAL | Simultaneous Scheme/ Tool steel Spark OES | Copper |
| 90 | TESTING-CHEMICAL | Simultaneous Scheme/ Tool steel Spark OES | Manganese |



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|------|----------------------------|---|---|
| 91 | TESTING-CHEMICAL | Simultaneous Scheme/ Tool steel Spark OES | Molybdenum |
| 92 | TESTING-CHEMICAL | Simultaneous Scheme/ Tool steel Spark OES | Nickel |
| 93 | TESTING-CHEMICAL | Simultaneous Scheme/ Tool steel Spark OES | Phosphorus |
| 94 | TESTING-CHEMICAL | Simultaneous Scheme/ Tool steel Spark OES | Silicon |
| 95 | TESTING-CHEMICAL | Simultaneous Scheme/ Tool steel Spark OES | Sulphur |
| 96 | TESTING-CHEMICAL | Simultaneous Scheme/ Tool steel Spark OES | Tungsten |
| 97 | TESTING-CHEMICAL | Simultaneous Scheme/ Tool steel Spark OES | Vanadium |
| 98 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical properties /Deformed bar | Tensile Strength |
| 99 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/ Steel | Impact Charpy at 0 Degree celsius |
| 100 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Aluminum alloys | 0.2% Offset Yield Stress |
| 101 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Aluminum alloys | 0.2% Proof stress |
| 102 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Aluminum alloys | Percentage of reduction of area |
| 103 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Aluminum alloys | Percentage Elongation |
| 104 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Aluminum alloys | Tensile Strength |
| 105 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel | 0.2% Proof or Yield Stress |



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|------|----------------------------|---|--|
| 106 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel | 0.2% Yield stress |
| 107 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel | Bend test |
| 108 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel | Brinell Hardness (HBW) 2.5mm/187.5kgf |
| 109 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel | Brinell Hardness (HBW),10mm/3000kgs |
| 110 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel | Charpy Impact at - 20 Degree celsius |
| 111 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel | Charpy Impact at - 40 Degree celsius |
| 112 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel | Flanging test |
| 113 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel | Flattening Test |
| 114 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel | Impact Charpy at 20 Degree celsius |
| 115 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel | Impact IZOD |
| 116 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel | Micro Vickers Hardness HV0.1 |
| 117 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel | Micro Vickers Hardness HV0.2 |
| 118 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel | Micro Vickers Hardness HV0.5 |
| 119 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel | Percenatge elongation |
| 120 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel | Percenatge reduction of area |



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|------|----------------------------|--|---|
| 121 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel | Rockwell Hardness HRC |
| 122 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel | Rockwell Hardness Scale B |
| 123 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel | Ultimate Tensile Strength |
| 124 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel | Vickers Hardness HV1 |
| 125 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel | Vickers Hardness HV10 |
| 126 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel | Vickers Hardness HV30 |
| 127 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel | Vickers Hardness HV5 |
| 128 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel/Deformed bar | 0.2% Proof stress |
| 129 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel/Deformed bar | Nominal Mass |
| 130 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical properties/Steel/Deformed bar | Nominal Cross Sectional area |
| 131 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel/Deformed bar | Percentage Elongation |
| 132 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel/Weld | Bend test |
| 133 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel/Weld | Guided Side Bend test |
| 134 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel/Weld | Impact Charpy at 20 Degree celsius |
| 135 | TESTING-MECHANICAL | Simultaneous Scheme/ Mechanical Properties/Steel/Weld | Transverse Tensile Strength |



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|------|----------------------------|--|--|
| 136 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallography /Ferrous and Non ferrous Microstructure | Structure, Grain size, Phases, Forms |
| 137 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallography /Steel (Microstructure) | Percentage Pearlite |
| 138 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallography /Steel (Microstrure) | Case depth |
| 139 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallography /Steel /Corrosion/.Pr. E (Inter granular Corrosion | Bend test |
| 140 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallography /Steel /Corrosion/.Pr. E (Inter granular Corrosion | Microstructure |
| 141 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallography/Cast Iron/ Microstructure | Graphite form, graphite distribution , graphite size |
| 142 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallography/Duplex Stainless steel/ Corrosion | Pitting & weight loss |
| 143 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallography/Duplex stainless steel/Microstructure, Method A | Classification of structure |
| 144 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallography/Ferrous and Non ferrous/Microscopic method | Coating thickness |
| 145 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallography/Galvanized coating | Coating thickness |
| 146 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallography/Nickel alloys/Intergranular Corrosion/Method A & B | Pitting & weight loss |



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| 147 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallography/SG iron/ Microstructure | Forms and distribution size |
| 148 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallography/Steel | Macrostructure/grain flow, porosity, crack |
| 149 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallography/Steel (Microstructure) | Ferrite grain size |
| 150 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallography/Steel (Microstructure) | Percentage Ferrite |
| 151 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallography/Steel (Microstructure) | Depth of decarburization |
| 152 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallography/Steel,/Corrosion Pr..C (Inter granular corrosion) | Pitting and weight loss |
| 153 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallography/Steel/corrosion Pr.A (Intergranular corrosion) | Classification of structure |
| 154 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallography/Steel/corrosion Pr.A (Intergranular corrosion) | Weight loss |
| 155 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallography/Steel/corrosion Pr.B (Intergranular corrosion) | Pitting & weight loss |
| 156 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallography/Steel/Corrosion/Metho d C (Intergranular corrosion) | Weight loss |
| 157 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallography/Steel/Inclusion | Type A,B,C, D & DS |
| 158 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallography/Steel/Microstructure | Percentage Tempered Martensite |



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| 159 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallography/Steel/Pitting corrosion / Macrostructure | Pits & pitting |
| 160 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallography/Steel/Weld | Macrostructure examination |
| 161 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallogrpagy /Steel/corrosion Pr.A (Intergranular corrosion) | Austenite Grain size |
| 162 | TESTING-MECHANICAL | Simultaneous Scheme/ Metallogrpaht/Steel/(Microstructure) | Percentatge Delta ferrite |
| 163 | TESTING-MECHANICAL | Simultaneous Scheme/ Steel /Corrosion/Pr.A (Intergranular corrosions) | Carbide size |