



**FINE FINISH PROFICIENCY TESTING PROVIDER**  
(A Division of Fine Finish Organics Pvt. Ltd.)

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**PT SCHEME CALENDAR**

| PT Scheme No.           | Field                            | PT Item        | Parameters                           | Reference Standard                     | Schedule   |
|-------------------------|----------------------------------|----------------|--------------------------------------|--|------------|
| FFOPL-PT001             | Mechanical                       | Polypropylene  | Tensile Strength of Plastics         | ASTM D 638/ISO 527/IS 13360            | March 2017 |
|                         |                                  |                | Elongation of Plastics               | ASTM D 638/ISO 527/IS 13360            | March 2017 |
|                         |                                  |                | E-modulus of Plastics                | ASTM D 638/ISO 527/IS 13360            | March 2017 |
|                         |                                  |                | Density                              | ASTM D 792/ISO 1183/IS 13360           | March 2017 |
|                         |                                  |                | Specific Gravity                     | ASTM D 792/ISO 1183/IS 13360           | March 2017 |
|                         |                                  |                | Water absorption of plastics         | ASTM D 570/ISO 62/IS 13360             | May 2017   |
|                         |                                  |                | Heat Deflection Temperature          | ASTM D 648/ISO 75 –Part 1 & 2/IS 13360 | Year 2018  |
|                         |                                  |                | Flexural Strength                    | ASTM D 790/ISO 178/IS 13360            | Year 2018  |
|                         |                                  |                | Flexural Modulus                     | ASTM D 790/ISO 178/IS 13360            | Year 2018  |
|                         |                                  |                | Flexural Strain                      | ASTM D 790/ISO 178/IS 13360            | Year 2018  |
|                         |                                  |                | Charpy Impact                        | ASTM D 6110/ISO 179 /IS 13360          | Year 2018  |
|                         |                                  |                | Izod Impact                          | ASTM D 256/ISO 180/IS 13360            | March 2017 |
|                         |                                  |                | Haze Gloss                           | ASTM D 2457/IS 13360                   | Year 2018  |
|                         |                                  |                | Vicat Softening Temperature          | ASTM 1525 /ISO 306/IS 13360            | Year 2018  |
|                         |                                  |                | Rockwell Hardness                    | ASTM D 785/ISO 2039/IS 13360           | Year 2018  |
|                         |                                  |                | Barcol Hardness                      | ASTM D 2583/EN 59/ IS 13360            | Year 2018  |
| Melt flow index         | ASTM D 1238-13/ISO 1133/IS 13360 | Year 2018      |                                      |  |            |
| Ash content of plastics | ASTM D 5630/ISO 3451             | Year 2018      |                                      |  |            |
| FFOPL-PT002             | Chemical                         | Epoxy Resin    | Viscosity by Brookfield viscometer   | ASTM D 2196/ IS 13360                  | Year 2019  |
|                         |                                  |                | Epoxy Value                          | ASTM D 1652                            | Year 2019  |
|                         |                                  |                | Easily Hydrolysable Chlorine Content | ASTM D 1726                            | Year 2019  |
|                         |                                  |                | Specific Gravity (at 25°C)           | IS 9162                                | Year 2018  |
|                         |                                  |                | Viscosity by Falling Ball Viscometer | ISO 12058/IS 13360                     | Year 2019  |
|                         |                                  |                | Moisture Content                     | IS:2362                                | Year 2018  |
| FFOPL-PT003             | Chemical                         | Epoxy Hardener | Amine Value                          | ISO 9702                               | Year 2019  |

| PT Scheme No.   | Field                            | PT Item                            | Parameters                                   | Reference Standard                               | Schedule  |
|-----------------|----------------------------------|------------------------------------|--|--|-----------|
| FFOPL-PT004     | Chemical                         | Air Drying paint/<br>Varnish       | Non-Volatile Matter/Volatile Matter          | IS: 101 (Part2/Sec 2); IS 10026                  | July 2017 |
|                 |                                  |                                    | Viscosity by Flow Cup/Consistency            | IS: 101 (Part1/Sec 5); IS 10026                  | July 2017 |
|                 |                                  |                                    | Density (at 27 ± 2°C)/ Mass in Kg per 10Lit. | IS: 101 (Part 1/Section7); IS 10026; ASTM D 1475 | July 2017 |
|                 |                                  |                                    | Drying Time of Paints                        | IS 101 Part 3/Section 1:1986; IS 10026           | Year 2018 |
|                 |                                  |                                    | Flexibility                                  | IS 101   | Year 2018 |
|                 |                                  |                                    | Scratch Hardness                             | IS 101   | Year 2018 |
|                 | Mechanical                       | Varnish                            | Bond Strength                                | IEC 61033; ASTM D 2519                           | Year 2018 |
| FFOPL-PT005     | Mechanical                       | Acrylonitrile<br>Butadiene Styrene | Tensile Strength of Plastics                 | ASTM D 638/ISO 527/IS 13360                      | Year 2018 |
|                 |                                  |                                    | Elongation of Plastics                       | ASTM D 638/ISO 527/IS 13360                      | Year 2018 |
|                 |                                  |                                    | E-modulus of Plastics                        | ASTM D 638/ISO 527/IS 13360                      | Year 2018 |
|                 |                                  |                                    | Density                                      | ASTM D 792/ISO 1183/IS 13360                     | Year 2018 |
|                 |                                  |                                    | Specific Gravity                             | ASTM D 792/ISO 1183/IS 13360                     | Year 2018 |
|                 |                                  |                                    | Water absorption of plastics                 | ASTM D 570/ISO 62/IS 13360                       | Year 2018 |
|                 |                                  |                                    | Heat Deflection Temperature                  | ASTM D 648/ISO 75 –Part 1 & 2/IS 13360           | Year 2018 |
|                 |                                  |                                    | Flexural Strength                            | ASTM D 790/ISO 178/IS 13360                      | Year 2018 |
|                 |                                  |                                    | Flexural Modulus                             | ASTM D 790/ISO 178/IS 13360                      | Year 2018 |
|                 |                                  |                                    | Flexural Strain                              | ASTM D 790/ISO 178/IS 13360                      | Year 2018 |
|                 |                                  |                                    | Charpy Impact                                | ASTM D 6110/ISO 179 /IS 13360                    | Year 2018 |
|                 |                                  |                                    | Izod Impact                                  | ASTM D 256/ISO 180/IS 13360                      | Year 2018 |
|                 |                                  |                                    | Haze Gloss                                   | ASTM D 2457/IS 13360                             | Year 2018 |
|                 |                                  |                                    | Vicat Softening Temperature                  | ASTM 1525 /ISO 306/IS 13360                      | Year 2018 |
|                 |                                  |                                    | Rockwell Hardness                            | ASTM D 785/ISO 2039/IS 13360                     | Year 2018 |
|                 |                                  |                                    | Barcol Hardness                              | ASTM D 2583/EN 59/ IS 13360                      | Year 2018 |
| Melt flow index | ASTM D 1238-13/ISO 1133/IS 13360 | Year 2018                          |  |  |           |

| PT Scheme No. | Field      | PT Item                             | Parameters                                    | Reference Standard                     | Schedule     |
|---------------|------------|-------------------------------------|---|--|--------------|
| FFOPL-PT006   | Mechanical | Composite (G11 - Glass Epoxy Sheet) | Ultimate Tensile Strength                     | ASTM D 638/ISO 527/IS 13360ASTM D 3039 | Year 2018    |
|               |            |                                     | % Elongation                                  | ASTM D 638/ISO 527/IS 13360ASTM D 3039 | Year 2018    |
|               |            |                                     | Tensile Modulus                               | ASTM D 638/ISO 527/IS 13360ASTM D 3039 | Year 2018    |
|               |            |                                     | Short Beam Strength                           | ASTM D 2344/ISO 14130                  | October 2017 |
|               |            |                                     | Mid Span Deflection                           | ASTM D 790                             | Year 2018    |
|               |            |                                     | Flexural Strength                             | ISO 14125                              | Year 2018    |
|               |            |                                     | Flexural Modulus                              | ISO 14125                              | Year 2018    |
|               |            |                                     | Flexural Strain                               | ISO 14125                              | Year 2018    |
|               |            |                                     | Compressive Strength (Combined loading)       | ASTM D 6641                            | Jun-17       |
|               |            |                                     | Compressive Modulus (Combined loading)        | ASTM D 6641                            | Jun-17       |
|               |            |                                     | Compressive Strength (End loading)            | ASTM D 695/ISO 14126/IS 13360/ ISO 604 | Year 2018    |
|               |            |                                     | Compressive Modulus (End loading)             | ASTM D 695/ISO 14126/IS 13360/ ISO 604 | Year 2018    |
|               |            |                                     | Compressive Strength (Face loading)           | ASTM D 3410                            | Year 2018    |
|               |            |                                     | Compressive Modulus (Face loading)            | ASTM D 3410                            | Year 2018    |
|               |            |                                     | Constituent Content (Resin and fibre)         | ASTM D 3171/EN 2564/ISO 1172           | Year 2018    |
|               |            |                                     | Void Content                                  | ASTM D 3171/EN 2564/ISO 1172           | Year 2018    |
|               |            |                                     | Water absorption of composites                | ASTM D 5229/ISO/IS                     | Year 2018    |
|               |            |                                     | Flexural Strength                             | ASTM D 7264                            | Year 2017    |
|               |            | Flexural Modulus                    | ASTM D 7264                                   | Year 2017                              |              |
|               |            | Sandwich core composite             | Sandwich Beam Flexural and Shear Stiffness    | ASTM D 7250                            | Year 2017    |
| FFOPL-PT007   | Mechanical | Adhesive coated strips              | Tensile Lap shear strength                    | ASTM D1002 -10                         | Year 2018    |
|               |            |                                     | Lap Shear Strength - Fiber reinforced bonding | ASTM D 5868-2008                       | Year 2018    |
|               |            |                                     | Lap Shear Strength - rigid to rigid bonding   | ISO 4587-2003                          | Year 2018    |
|               |            |                                     | Peel Strength                                 | ISO 11339-2010                         | Year 2018    |

| PT Scheme No.        | Field                                     | PT Item           | Parameters                   | Reference Standard  | Schedule    |
|----------------------|---|-------------------|------------------------------|---|-------------|
| FFOPL-PT008          | Mechanical,<br>Chemical and<br>Electrical | Rubber Vulcanized | Tensile strength             | ASTM D 412-06a(2013)/IS 3400/BS ISO 37                              | Nov 2017    |
|                      |   |                   | % elongation at break        | ASTM D 412-06a(2013)/IS 3400/BS ISO 37                              | Nov 2017    |
|                      |   |                   | Shore A hardness             | ASTM D 2240/ISO 868/IS 13360/IS 3400/SATRA TM 205:1999 /BS ISO 7619 | Nov 2017    |
|                      |   |                   | Density - Rubber, Vulcanized | ISO 2781:1988 / IS 3400(Part9) :2003                                | July 2017   |
|                      |   |                   | Compression set              | ASTM D 395/IS 3400/BS ISO 815-1                                     | July 2017   |
|                      |   |                   | Sole Abrasion Test           | SATRA TM 174:1994 / ISO 4946  | Year 2018   |
|                      |   |                   | Tear Strength                | ASTM D 624/ IS-3400 Part-XVII/ BS ISO 34-1                          | Year 2018   |
|                      |   |                   | Rebound Resilience Test      | ASTM D 2632/ISO 4662  | Year 2018   |
|                      |   |                   | Carbon Black Percent by TGA  | IS 3400(P-22):1984(RA 2003); ASTM D 6370; ISO 11358                 | Year 2017   |
|                      |   |                   | Dielectric Breakdown         | ASTM D 149  | Year 2018   |
|                      |   |                   | Polymer Content              | ASTM D 297- 2013,IS 3400 (Part 22): 1984 (RA 2008)                  | Year 2018   |
|                      |   |                   | Sulfur content               | ASTM D 297- 2013,IS 3400 (Part 22): 1984 (RA 2008)                  | Year 2018   |
|                      |   |                   | Solvent extractable matter   | ASTM D 297- 2013,IS 3400 Part 22- 2008                              | Year 2018   |
|                      |   |                   | Ash content                  | ASTM D 297- 2008,IS 3400 (Part 22): 1984 (RA2003)                   | August 2017 |
|                      |   |                   | Volatile matter              | IS 3660 Part.2- 1985 (RA 2009)                                      | Year 2018   |
|                      |   |                   | Rubber Content               | ASTM D297- 2013,IS 3400 (Part 22):1984                              | Year 2018   |
| Resistance to liquid | IS 3400 (Part 6): 2012                    | Year 2018         |                              |   |             |
| FFOPL-PT009          | Mechanical                                | Polypropylene     | Shore D hardness             | ASTM D 2240/ISO 868/IS 13360  | Year 2018   |
|                      |   |                   | Shore A hardness             | ASTM D 2240   | Year 2017   |
| FFOPL-PT010          | Chemical                                  | Plastic Film      | Optical Density              | AIM CAL 1.1 TP 101-78, Fifth Edition                                | Year 2018   |
|                      |   |                   | Linear Thermal Shrinkage     | ASTM D 2732   | Year 2018   |
| FFOPL-PT011          | Chemical                                  | Polypropylene     | Transition Temperature       | ASTM E 1356/ASTM D 3418/ISO 11357                                   | Year 2019   |
|                      |   |                   | Specific Heat                | ASTM E 1952   | Year 2018   |
|                      |   |                   | Enthalpy of Polymerization   | ASTM E 2160   | Year 2018   |
| FFOPL-PT012          | Chemical                                  | Polyolefins       | Oxidative Induction Time     | ASTM D 3895   | Nov 2017    |

| PT Scheme No.        | Field      | PT Item           | Parameters  | Reference Standard                       | Schedule  |
|----------------------|------------|-------------------|---|--|-----------|
| FFOPL-PT013          | Chemical   | Adhesive          | High Shear viscosity using cone/plate viscometer  | ASTM D 4287                              | Year 2018 |
| FFOPL-PT014          | Mechanical | Adhesive          | Shear strength of adhesives using pin and collar specimen   | ASTM D 4562                              | Year 2018 |
|                      |            |                   | Apparent shear strength of single-lap-joint adhesively bonded metal specimens by tension loading (metal-to-metal) | ASTM D 1002                              | Year 2018 |
| FFOPL-PT015          | Electrical | Varnish           | Volume resistivity  | ASTM D 257                               | Year 2018 |
| FFOPL-PT016          | Chemical   | Container/pouches | Migration studies in Plastic materials (Using Simulant A , B and C)   | IS 9845                                  | Year 2018 |
| FFOPL-PT017          | Mechanical | Leather           | Tensile Strength  | SATRA TM 43:2000 / ISO 3376:2011         | Year 2018 |
|                      |            |                   | Tear Strength   | SATRA TM 162:1992 / ISO 3377-2           | Year 2018 |
|                      |            |                   | Sole Bond Test  | SATRA TM 411:1992 / BS EN ISO 20344:2011 | Year 2018 |
|                      |            |                   | Toe Impact Resistance Test  | BS EN ISO 20344:2011                     | Year 2018 |
| FFOPL-PT018          | Chemical   | Leather           | Chromium VI   | ISO 17075:2007                           | Year 2018 |
|                      |            |                   | pH Value  | ISO 4045:2008                            | Year 2018 |
|                      |            |                   | Color fastness to rubbing(Veslic)   | ISO 11640:2012                           | Year 2018 |
|                      |            |                   | Total Ash Content   | IS 582                                   | Year 2018 |
|                      |            |                   | Determination of Chromic Oxide  | IS 582                                   | Year 2018 |
|                      |            |                   | Volatile content  | IS 582                                   | Year 2018 |
|                      |            |                   | Ash content   | IS 582                                   | Year 2018 |
|                      |            |                   | Water soluble matter  | IS 582                                   | Year 2018 |
|                      |            |                   | pH of water solubles  | IS 582                                   | Year 2018 |
|                      |            |                   | Solvent extractable matter  | IS 582                                   | Year 2018 |
|                      |            |                   | Nitrogen content  | IS 582                                   | Year 2018 |
|                      |            |                   | Chromium oxide content  | IS 582                                   | Year 2018 |
|                      |            |                   | Aluminium content   | IS 582                                   | Year 2018 |
|                      |            |                   | Iron content  | IS 582                                   | Year 2018 |
|                      |            |                   | Copper content  | IS 582                                   | Year 2018 |
|                      |            |                   | Silica content  | IS 582                                   | Year 2018 |
| Chloride content     | IS 582     | Year 2018         |   |  |           |
| Sulphate content     | IS 582     | Year 2018         |   |  |           |
| Formaldehyde content | IS 582     | Year 2018         |   |  |           |

| PT Scheme No.                                       | Field                                  | PT Item                      | Parameters                                     | Reference Standard   | Schedule  |
|---|--|------------------------------|--|--|-----------|
| FFOPL-PT018   | Chemical                               | Leather                      | Oil content                                    | IS 582   | Year 2018 |
|   |  |                              | Hide substance                                 | IS 582   | Year 2018 |
|   |  |                              | Degree of Tannage                              | IS 582   | Year 2018 |
| FFOPL-PT019   | Chemical                               | Bare steel corrosion coupons | Laboratory cyclic corrosion test               | SAE J2334  | Year 2018 |
| FFOPL-PT020   | Mechanical                             | Flat Rolled Steel Products   | Tensile  | IS:1608-2005 / ISO 6892-1:2009 / IS:3803-1:1989 / JIS Z 2241-2011 / ASTM A370-2012       | May 2017  |
|   |  |                              | Ultimate Tensile Strength                      | ASTM E 8   | May 2017  |
|   |  |                              | Yield Strength (By hault of the force method)  | ASTM E 8   | May 2017  |
|   |  |                              | % of elongation after fracture                 | ASTM E 8   | May 2017  |
|   |  |                              | Bend   | IS:1599-1985 / ASTM A370-2012  | Year 2018 |
|   |  |                              | Charpy Impact                                  | IS 1757-1988 / ASTM E23-2012 / A370 JIS Z 2242-2005 / ISO 148-1-2009                     | Year 2018 |
|   |  |                              | Modified Erichsen Cupping Test                 | IS:10175-1993 (part1) / ISO:8490-1986 (reaffirmed 2003) / IS-6240-2008 / JIS Z-7729-2005 | Year 2018 |
|   |  |                              | Rockwell Hardness                              | IS1586-2012 / ASTM E-18-2012 / JIS Z 2245-2011   | Year 2018 |
|   |  |                              | Vickers Hardness                               | IS-1501 (P1)-2002 / ASTM E-384-2011 / JIS Z 2244-1992                                    | Year 2018 |
|   |  |                              | Drop Weight Tear Testing                       | ASTM E208-95a API 5L   | Year 2018 |
|   |  |                              | Microstructure Analysis                        | ASTM Metal Hand book Volume 9,ASTM metals handbok, Vol-7, IS7739 , ASTM E 3)             | Year 2018 |
|   |  |                              | Estimation of Grain size by Microscopic Method | IS: 4748-2009 / ASTM E112-2013   | Year 2018 |
|   |  |                              | Determination of Inclusion Rating              | IS:4163-2004 / ASTM E45-2013   | Year 2018 |
|   |  |                              | Macro Etch                                     | ASTM E381  | Year 2018 |
| Measurement of coating weight of Zinc on steel base | IS-6745 / ASTM A90/A90M / DIN EN 10327 | Year 2018                    |  |  |           |

| PT Scheme No. | Field                                   | PT Item                          | Parameters                         | Reference Standard                        | Schedule  |
|---------------|---|----------------------------------|------------------------------------|---|-----------|
| FFOPL-PT021   | Chemical                                | FE Based Low Alloy/ Carbon Steel | Carbon [C]                         | ASTM E-415 / IS 8811:1998 / ASTM E1019-03 | Year 2018 |
|               |   |                                  | Sulphur (S)                        | ASTM E-415 / IS 8811:1998 / ASTM E1019-03 | Year 2018 |
|               |   |                                  | Manganese (Mn)                     | ASTM E-415 / IS 8811:1998                 | Year 2018 |
|               |   |                                  | Phosphorus (P)                     | ASTM E-415 / IS 8811:1998                 | Year 2018 |
|               |   |                                  | Silicon(Si)                        | ASTM E-415 / IS 8811:1998                 | Year 2018 |
|               |   |                                  | Aluminium (Al)                     | ASTM E-415 / IS 8811:1998/                | Year 2018 |
|               |   |                                  | Chromium (Cr)                      | ASTM E-415 / IS 8811:1998                 | Year 2018 |
|               |   |                                  | Nickel (Ni)                        | ASTM E-415 / IS 8811:1998                 | Year 2018 |
|               |   |                                  | Copper (Cu)                        | ASTM E-415 / IS 8811:1998                 | Year 2018 |
|               |   |                                  | Niobium (Nb)                       | ASTM E-415 / IS 8811:1998                 | Year 2018 |
|               |   |                                  | Vanadium (V)                       | ASTM E-415 / IS 8811:1998                 | Year 2018 |
|               |   |                                  | Titanium (Ti)                      | ASTM E-415 / IS 8811:1998/                | Year 2018 |
|               |   |                                  | Molybdenum (Mo)                    | ASTM E-415 / IS 8811:1998                 | Year 2018 |
|               |   |                                  | Boron (B)                          | ASTM E-415 / IS 8811:1998                 | Year 2018 |
|               |   |                                  | Tin (Sn)                           | ASTM E-415 / IS 8811:1998                 | Year 2018 |
|               |   |                                  | Calcium (Ca)                       | ASTM E-415 / IS 8811:1998                 | Year 2018 |
| Nitrogen (N)  | ASTM E-415 IS 8811:1998 / ASTM E1019-03 | Year 2018                        |                                    |   |           |
| Oxygen (O)    | ASTM E1019-03                           | Year 2018                        |                                    |   |           |
| FFOPL-PT022   | Chemical                                | Aggregate- (Coarse/ Fine)        | Sieve analysis of Coarse Aggregate | IS:2386 (P 1) -1963, RA 2011              | Year 2018 |
|               |   |                                  | Flakiness Index                    | IS:2386 (P 1) -1963, RA 2011              | Year 2018 |
|               |   |                                  | Elongation Index                   | IS:2386 (P 1) -1963, RA 2011              | Year 2018 |
|               |   |                                  | Impact Value                       | IS:2386 (P 4) -1963, RA 2011              | Year 2018 |
|               |   |                                  | Los Angeles Abrasion Value         | IS:2386 (P 4) -1963, RA 2011              | Year 2018 |
|               |   |                                  | Crushing Value                     | IS:2386 (P 4) -1963, RA 2011              | Year 2018 |
|               |   |                                  | Specific Gravity                   | IS:2386 (P 3) -1963, RA 2011              | Year 2018 |
|               |   |                                  | Water Absorption                   | IS:2386 (P 3) -1963, RA 2011              | Year 2018 |
|               |   |                                  | Sieve analysis of Fine Aggregate   | IS:2386 (P 1) -1963, RA 2011              | Year 2018 |
|               |   |                                  | Specific Gravity                   | IS:2386 (P 3) -1963, RA 2011              | Year 2018 |
|               |   |                                  | Water Absorption                   | IS:2386 (P 3) -1963, RA 2011              | Year 2018 |
|               |   |                                  | Silt Content                       | IS:2386 (P 3) -1963, RA 2011              | Year 2018 |
| FFOPL-PT023   | Mechanical                              | Ferrous & Non Ferrous            | Rockwell Hardness Test             | IS 1586: 2000 (RA 2006)                   | Year 2018 |

| PT Scheme No. | Field                            | PT Item         | Parameters                      | Reference Standard  | Schedule  |
|---------------|----------------------------------|-----------------|---------------------------------|---|-----------|
| FFOPL-PT024   | Chemical                         | Coal/Coke       | <b>Proximate Analysis</b>       |   | Year 2018 |
|               |                                  |                 | Moisture                        | IS 1350 (Part 1): 1984 (RA2013), ASTM D3173-2011                                | Year 2018 |
|               |                                  |                 | Ash content                     | IS 1350 (Part 1): 1984 (RA2013), ASTM D3174-2012                                | Year 2018 |
|               |                                  |                 | Volatile matter                 | IS 1350 (Part 1):1984 (RA2013),ASTM D3175-2011                                  | Year 2018 |
|               |                                  |                 | Fixed Carbon                    | IS 1350 (Part 1):1984 (RA2013),ASTM D3175-2011                                  | Year 2018 |
|               |                                  |                 | Net Calorific Value             | IS 1350 (Part 2): 1970 (RA 2010),ASTM D-5865 2013                               | Year 2018 |
|               |                                  |                 | Useful Heat Value               | IS 1350 (Part 1) : 1984 (RA2013) , Notification by Ministry of Coal (June 1994) | Year 2018 |
|               |                                  |                 | Forms of Sulphur                | IS 1350 (Part 3): 1969 (RA 2010)  | Year 2018 |
|               |                                  |                 | Hard Groove Griandibility Index | IS 4333:1979 (RA2000),ASTM D 409-2012   | Year 2018 |
|               |                                  |                 | Swelling Number                 | IS 1353: 1993 (RA 2010)   | Year 2018 |
|               |                                  |                 | Total Moisture                  | IS 1350 (Part 1):1984 (RA2013)  | Year 2018 |
|               |                                  |                 | Gross Calorific Value           | IS 1350 (Part 2): 1970 (RA 2010), ASTM D5865-2013                               | Year 2018 |
|               |                                  |                 | Sieve Analysis/ Particle Size   | IS 2386 (Part 1): 1963 (RA2007) ,ASTM D4749-1987 (RA2012)                       | Year 2018 |
|               |                                  |                 | Caking Index                    | IS 1353: 1993 (RA 2005)   | Year 2018 |
|               |                                  |                 | Ash Fusion Temperature          | ASTM D 1857: 2004 (RA 2010)   | Year 2018 |
|               |                                  |                 | Ash content                     | IS 1350 (Part 1):1984,ASTM D3174-2012   | Year 2018 |
|               |                                  |                 | Carbon                          | IS 1350 (Part 4): 1984 (RA2013),ASTM D3176-2009                                 | Year 2018 |
|               |                                  |                 | Hydrogen                        | IS 1350 (Part 4) : 1984 (RA2013) ,ASTM D3176-2009                               | Year 2018 |
|               |                                  |                 | Sulphur                         | IS 1350 (Part 3) : 1969, (RA 2010)  | Year 2018 |
|               |                                  |                 | Oxygen                          | ASTM D3176-2009   | Year 2018 |
| Bulk Density  | IS 33: 1992 (RA 2002) guidelines | Year 2018       |                                 |   |           |
| FFOPL-PT025   | Chemical                         | Coal / Coke Ash | <b>Chemical composition</b>     | IS 1350 (Part 1):1984 (RA2007)  | Year 2018 |
|               |                                  |                 | Silica                          | AAS, ICP,   | Year 2018 |
|               |                                  |                 | Calcium Oxide                   | IS 1355: 1984 (RA2007)  | Year 2018 |
|               |                                  |                 | Magnesium oxide                 | IS 1355: 1984 (RA2007)  | Year 2018 |
|               |                                  |                 | Iron Oxide                      | IS 1355: 1984 (RA2007)  | Year 2018 |
|               |                                  |                 | Aluminim Oxide                  | IS 1355: 1984 (RA2007)  | Year 2018 |
|               |                                  |                 | Sodium Oxide                    | IS 1355: 1984 (RA2007)  | Year 2018 |
|               |                                  |                 | Potassium Oxide                 | IS 1355: 1984 (RA2007)  | Year 2018 |



| PT Scheme No. | Field    | PT Item | Parameters   | Reference Standard | Schedule  |
|---------------|----------|---------|--|--------------------|-----------|
| FFOPL-PT026   | Chemical | Oils    | Viscosity @ 40 Deg C   | ASTM D 445         | Nov 2017  |
|               |          |         | Viscosity @ 100 Deg C  | ASTM D 445         | Nov 2017  |
|               |          |         | Moisture Content   | ASTM D 1744        | Year 2018 |
|               |          |         | Viscosity Index  | ASTM D 2270        | Year 2018 |
|               |          |         | Total Acid Number of Petroleum Products                              | ASTM D 664         | Nov 2017  |
|               |          |         | Total Base Number of Petroleum Products                              | ASTM D 4739        | Nov 2017  |
|               |          |         | Foaming Characteristics  | ASTM D 892         | Nov 2017  |
|               |          |         | Cloud Point  | ASTM D 2500        | Nov 2017  |
|               |          |         | Pour Point   | ASTM D 97          | Nov 2017  |
|               |          |         | Fire & Flash Point   | ASTM D 92          | Nov 2017  |
|               |          |         | Emulsion Characteristics   | ASTM D 1401        | Nov 2017  |
|               |          |         | Wear Metals and Containing in used Lubricated oils and Determination | ASTM D 5185        | Year 2018 |
|               |          |         | Aluminium  |                    |           |
|               |          |         | Barium   |                    |           |
|               |          |         | Boron  |                    |           |
|               |          |         | Calcium  |                    |           |
|               |          |         | Chromium   |                    |           |
|               |          |         | Copper   |                    |           |
|               |          |         | Iron   |                    |           |
|               |          |         | Lead   |                    |           |
|               |          |         | Magnesium  |                    |           |
|               |          |         | Manganese  |                    |           |
|               |          |         | Molybdenum   |                    |           |
|               |          |         | Nickel   |                    |           |
|               |          |         | Phosphorus   |                    |           |
|               |          |         | Titanium   |                    |           |
| Silicon       |          |         |  |                    |           |
| Silver        |          |         |  |                    |           |
| Sodium        |          |         |  |                    |           |
| Vanadium      |          |         |  |                    |           |
| Tin           |          |         |  |                    |           |
| Zinc          |          |         |  |                    |           |

Note : Please note that if you're interested in any PT program, we request you to contact our PT Coordinators (Charges will be provided on request)

**FINE FINISH PROFICIENCY TESTING PROVIDER,**

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