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|-------------------------------|---|--------------------|-------------------|
| Laboratory | Quality Control Laboratory, Numaligarh Refinery Limited, Siliguri Marketing Terminal, Siliguri, P.O. Rangapani, District - Darjeeling, West Bengal | | |
| Accreditation Standard | ISO/IEC 17025: 2005 | | |
| Discipline | Chemical Testing | Issue Date | 30.06.2014 |
| Certificate Number | T-2230 | Valid Until | 29.06.2016 |
| Last Amended on | - | Page | 1 of 3 |

| S.No. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|---------------------|-----------------------------------|---|--|---|
| I. PETROLEUM | | | | |
| 1. | Motor Spirit | Density, kg/M ³ | IS:1448 [P: 16] : 1990 RA 2002 | 720 to 775 |
| | | Distillation, °C | IS:1448 [P: 18] : 1991 RA : 2006 | 30 to 180 |
| | | Recovery up to 70°C (E 70) % Volume | | 10 to 45 |
| | | Recovery up to 100°C (E 150) % Volume | | 40 to 70 |
| | | Recovery up to 150°C (E 150) % Volume. Min | | 75 |
| | | Recovery up to 180°C (E 180) % Volume. Min | | 90 |
| | | Final Boiling Point. °C, Max | | 210 |
| | | Residue % by Volume | | 2 |
| | | RON | IS:1448 [P: 27] : 1960(RA 2003) ASTM D 2699,Procedure | 80 to 100 |

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| S.No. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|----------------|-----------------------------------|--------------------------------------|--|---|
| 2. | High Speed Diesel | Density, kg/M ³ | IS: 1448 [P: 16] : 1990 RA 2002 | 820 to 845 |
| | | Distillation, °C | IS: 1448 [P: 18] : 1991, RA 2006 | 30 to 400 |
| | | At 350°C.Min . (BS II) %Vol | | 85 |
| | | At 360°C. Min. (BS III) %Vol | | 95 |
| | | At 370°C. Min. (BS II) %Vol | | 95 |
| | | Pour Point, °C | IS: 1448 [P: 10] : 1970, RA 2003 | -18 to + 18 |
| | | Total Sulfur (ED XRF), mg/ Kg | ASTM D-4294 - 03 | 0 to 1000 |
| | | Calculated Cetane Index (CCI) | ASTM D-4737-1996 - 04 | 35 to 55 |
| | | Kinematic Viscosity, @ 40 °C. cst | IS: 1448 p-25, RA 2002 | 2.0 to 4.5 |
| Flash Point °C | IS: 1448 p-20, RA 1998 | -5 to 66.5 | | |

