

Laboratory	Quality Control Laboratory, Mangalore, Hindustan Petroleum Corporation Limited, Mangalore POL Terminal, Village Bala, Via Katipalla, Mangalore, Karnataka		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.09.2015
Certificate Number	T-1999	Valid Until	10.09.2017
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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
I.	PETROLEUM			
1.	MS/HSD/SKO/FO	Appearance	SOP HPI/WI/21: Issue No.01 Issue date: 01.02.10	Qualitative
		Density	IS 1448 (Part 16): 1990 (RA 2007) ASTM D4052: 08	700.0 kg/m ³ to 990.0 kg/m ³
2.	MS	Distillation Rec @ 70 °C Rec @ 100 °C Rec @ 150 °C Residue FBP	IS 1448 (Part 18): 1991 (RA 2006) (2 nd Revision), ASTM D86: 12	5 % to 50 % 25 % to 75 % 70 % to 90 % 0.1 ml to 5 ml Upto 300 °C
		Sulfur Total	ISO 20847: 2004	0.0017 % mass to 0.05 % mass
		Existent Gum (Solvent washed)	IS 1448 (Part 29): 2004 (3 rd Revision), issue 2004/ ISO 6246: 1995	1g/m ³ to 100 g/m ³
3.	SKO	Colour Saybolt	IS 1448 (Part 14):1960, (RA 2008) ASTM D156-12	(-)18 to (+)30
		Smoke Point	IS 1448 (Part 31): 1968 (RA 2008) (1 st Revision), ISO 3014	10 mm to 40 mm
4.	HSD/SKO	Flash Point Abel	IS 1448 (Part 20): 1998 (RA 2004) (2 nd Revision)	26 °C to 66 °C
		Distillation Rec @ 360 °C Rec @ 200 °C FBP	IS 1448 (Part 18): 1991 (RA 2006) (2 nd Revision), ASTM D86: 12	90 % to 98 % 10 % to 30 % Upto 400 °C

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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
5.	HSD	Kinematic Viscosity @ 40 °C	IS 1448 (Part 25): 1976 (RA 2007) (1 st revision), ASTM D445: 12	1.5 cSt to 5.5 cSt
		Sulfur Total	ASTM D 4294: 2010	17 mg/kg to 500 mg/kg
		Pour Point	IS 1448 (Part 10/Sec II): 1970 (RA 2003)	(+)12 °C to (-)21 °C
		Calculated Cetane Index	ASTM D4737: 08	30 to 65
6.	FO	Kinematic Viscosity @ 50 °C	IS 1448 (Part 25): 1976 (RA 2007) (1 st Revision), ASTM D445: 12	100 cSt to 200 cSt
		Sulfur Total	ASTM D 4294: 2010	0.1 % mass to 4.6 % mass
		Flash Point PMCC	IS 1448 (Part 21): 2012 ISO 2719: 2002 ASTM D93: 13	40 °C to 370 °C
		Sediments	IS 1448 (Part 30): 1970 (RA 2003)	0.001 % to 0.3 %
		Water Content	IS 1448 (Part 40): 1987 (RA 2006) (3 rd Revision)	0 % to 5.0 %
7.	MS/HSD/SKO	Copper Strip Corrosion Test	IS 1448 (Part 15): 2004 (3 rd Revision) ISO 2160: 1998	1 to 4

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