

Laboratory **Mughalsarai Terminal Laboratory, Indian Oil Corporation Limited  
(Mkt. Div.), Ali Nagar, Mughal Sarai, Chandauli, Uttar Pradesh**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-8003**

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Validity **10.10.2018 to 09.10.2020**

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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**CHEMICAL TESTING**

I.	<b>PETROLEUM AND PRODUCTS</b>			
1.	<b>Motor Spirit (MS)</b>	Appearance	Visual IOCM MGS-1/2016	Qualitative (Visual)
		Colour	Visual IOCM MGS-1/2016	Qualitative (Visual)
		Density	IS 1448 (Part-16) 2014	650 kg/m <sup>3</sup> to 900 kg/m <sup>3</sup>
		<b>Distillation :-</b> Initial Boiling Point Final Boiling Point	IS 1448 (Part-18) 1991 (RA 2016) Tem(Part- in °c	0 to 400
		Recovery (at 70,100,150°C)		
			% by Vol.	0 to 100
		Copper Strip Corrosion	IS 1448 (Part-15) 2004 (RA 2010)	Qualitative (1a to 4c)
		Existent Gum	IS 1448 (Part-29) 2004 (RA 2016) Tem (Part- in °C	5 g/m <sup>3</sup> to 50 g/m <sup>3</sup>
		Sulphur	ASTM D4294-2010 ISO 20847-2004	18 mg/kg to 1000 mg/kg
2.	<b>Super Kerosene Oil ( SKO)</b>	Appearance	Visual IOCM MGS-1/2016	Qualitative (Visual)
		Colour	Visual IOCM MGS-1/2016	Qualitative (Visual)
		Density	IS 1448 (Part-16) 2014	650 kg/m <sup>3</sup> to 900 kg/m <sup>3</sup>
		<b>Distillation :-</b> Initial Boiling Point Final Boiling Point RecoveryRec@200°C	IS 1448 (Part-18)1991 (RA 2016) Tem (Part- in °C	10°C to 200 °C 50°C to 350°C
			% by Vol.	Min.20 %

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		Copper Strip Corrosion	IS 1448 (Part-15) 2004 (RA 2010)	Qualitative (1a to 4c)
		Smoke Point	IS 1448 (Part-31) 2017	10 mm to 50 mm
		Flash Point (Abel cup)	IS 1448 (Part-20) 1998 (RA 2013)	19°C to 66.5 °C
<b>3.</b>	<b>High Speed Diesel (HSD)</b>	Appearance	Visual IOCM MGS-1/2016	Qualitative (Visual)
		Colour	Visual IOCM MGS-1/2016	Qualitative (Visual)
		Density	IS 1448 (Part-16) 2014	650 kg/m <sup>3</sup> to 900 kg/m <sup>3</sup>
		<b>Distillation :-</b> Initial Boiling Point Final Boiling Point Recovery@ 360°C	IS 1448 (Part-18) 1991 (RA 2016) Temp. in°C	0 to 400
			% by Vol.	0 to 100
		Copper Strip Corrosion	IS 1448 (Part-15) 2004 (RA 2010)	Qualitative (1a to 4c)
		Flash Point (Abel Cup)	IS -1448 (Part-20)1998 (RA 2013)	19°C to 66.5°C
		Kinematic Viscosity at 40 °C	IS 1448 (Part-25)1976 (RA 2016)	1.0 cst to 8.0 cst
		Pour Point	IS 1448 (Part-10) 2013	(-)9 °C to15°C
		Sulphur	ASTM D4294-2010 ISO 20847-2004	18 mg/Kg to 1000 mg/Kg