

Laboratory **Nishatpura Laboratory, Indian Oil Corporation Limited (M.D.),
Deewanganj Road, Nishatpura, Bhopal, Madhya Pradesh**

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

Certificate Number **TC-6287 (in lieu of T-0721)**

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Validity **11.09.2017 to 10.09.2019**

Last Amended on **18.09.2017**

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.	PETROLEUM AND PRODUCTS			
1.	MS, HSD, SKO,	Appearance	Visual (WI/OPN/06/6.1) / IS-2796/1460/1459	Qualitative
2.	MS, HSD, SKO	Colour	Visual (WI/OPN/06/6.1) Is-2796/1460/1459/Servo	Qualitative
3.	MS, HSD, SKO, LDO, FO	Density	IS 1448 [P : 16] : 2014	0.600 gm/ml to 1.000 gm/ml
4.	HSD, LDO, FO	Ash / Sulphated Ash Content	IS 1448 [P : 4] : 2008 (Reaffirmed 2013)	0.001 % wt to 0.20 % wt
5.	MS HSD SKO	Distillation IBP FBP Recovery at 70 °C Recovery at 100 °C Recovery at 150 °C Recovery at 360 °C Recovery at 200 °C	IS 1448 [P : 18] : 1991 (Reaffirmed 2011)	30 °C to 400 °C 1 Vol. % to 99 Vol. %
6.	HSD, SKO	Flash Point (ABEL) (Method –B)	IS 1448 [P : 20] : 1998 (Reaffirmed 2013)	19 °C to 70 °C
7.	LDO, FO	Flash Point (PMCC)	IS 1448 [P : 21] : 2012	40 °C to 370 °C
8.	HSD, LDO, FO	Kinematic Viscosity	IS 1448 [P : 25] : 1976 (Reaffirmed 2013)	0.50 cSt to 400 cSt
9.	HSD	Kinematic Viscosity Auto By Stabinger Viscometer(SVM-3000)	ASTM D7042-2016	2.0 cSt to 5.0 cSt
10.	MS, HSD, SKO, LDO, FO	Sulphur Content ppm / % by mass	ASTM D4294-2016 & ISO-20847 (XRF):2004	0.003 % to 5 %
11.	MS	Existent Gum	IS 1448 [P : 29] 2004 (Reaffirmed 2011)	0.4 gm/m ³ to 50 gm/m ³
12.	MS HSD, SKO	Copper Strip Corrosion Test @50 ° C & @100 ° C	IS 1448 [P : 15] 2004 (Reaffirmed 2011)	1 rating to 4 rating

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13.	MS	RON	IS 1448 [P : 27] 2013	40 to 100
14.	HSD, LDO, FO	Water Content by Dean & Stark,	IS 1448 [P : 40] 1987 (Reaffirmed 2011)	0.1 %V to 5.0 %V
15.	HSD, LDO, FO	Sediment by Extraction,	IS 1448 [P : 30] 2013	0.01% Wt to 2.0% Wt
16.	HSD	Cetane Index (calculated)	ASTM D4737-2016	32.5 to 56.5
17.	HSD, LDO, FO	Calorific Value (calculated)	IS 1448 [P : 7] 2004 (Reaffirmed 2011)	8000 kCal/kg to 13000 kCal/kg
II.	LUBRICANTS			
1.	Lube Oil	Colour	Visual (WI/OPN/06/6.1) Is-2796/1460/1459/Servo	Qualitative
2.	Lube Oil	Ash / Sulphated Ash Content,	IS 1448 [P : 4] : 2008 (Reaffirmed 2013)	0.001 % wt to 0.20 % wt
3.	Lube Oil	Flash Point (COC)	IS 1448 [P : 69] : 2013	80 °C to 400 °C
4.	Lube Oil	Kinematic Viscosity	IS 1448 [P : 25] : 1976 (Reaffirmed 2013)	0.50 cSt to 400 cSt