

Laboratory	Regional Laboratory (ER), Indian Oil Corporation Ltd. (MD), 51, Jessore Road, Kolkata, West Bengal		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	22.08.2014
Certificate Number	T-0428	Valid Until	21.08.2016
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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.	HSD, JET A-1	Color	ASTM D 1500: 2007	0.5 to 8.0 Unit
2.	JET A-1, SKO	Color	ASTM D 156: 2012	0 to 30 Unit
3.	MS, AVGAS, SKO, JETA-1, PBM, HSD, LDO, FO	Density	IS: 1448 (P: 16), RA 2007	650 to 1000 kg/m ³
4.	MS, AVGAS, SKO, JETA-1, HSD, PBM	Distillation	IS: 1448 (P: 18), RA 2010 D 86: 2011	30 to 400 °C
5.	SKO, JETA-1, HSD	Flash Point	IS: 1448 (P: 20), RA 2008	30 to 66.5 °C
6.	SKO, JETA-1, HSD, JBO, LDO, FO	Flash Point	IS: 1448 (P: 21) 2012	40 to 140 °C
7.	AVGAS, JETA-1	Freezing Pt.	IS: 1448 (P: 11), RA 2010	- 40 to -70 °C
8.	JETA-1, HSD, LDO, FO	K. Viscosity	IS: 1448 (P: 25), RA 2007 ASTM D 445: 2012	1.0 to 550 cSt
9.	JETA-1	Sulphur – Mercaptan	IS: 1448 (P: 109) 2004	0.0003 to 0.01 % by mass
10.	MS, AVGAS, NAPHTHA SKO, JETA-1, HSD, LDO, FO	Total Sulphur	ISO 20847: 2004, ASTM D 4294: 2010	0.0017 to 4.6 % by mass

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11.	MS, AVGAS, SKO, JETA-1HSD, LDO, FO	Total Sulphur	ASTM D 2622 : 2010	3 to 46000 PPM
12.	JETA-1	Total Acidity	IS: 1448 (P: 113), RA 2010	0 to 0.02 mg KOH/gm
13.	JETA-1	Aromatics	IS: 1448 (P: 23), RA 2010	5.0 to 25.0 % by Vol
14.	JETA-1	Olefins	IS: 1448 (P: 23), RA 2010	1.0 to 5.0 % by Vol
15.	SKO, JETA-1	Smoke Point	IS: 1448 (P: 31), RA 2008	5 to 50 mm
16.	JET A-1	Napthalene content	IS: 1448 (P: 118), RA 2007	0 to 5 % vol
17.	AV GAS , JET A-1	Water Reaction	IS: 1448 (P: 42), RA 2010	0 to 4
18.	AVGAS, JETA-1	Aniline Point	IS: 1448 (P: 3) 2007	50 to 130 °C
19.	JETA-1	Doctor Test	IS: 1448 (P: 19), RA 2007	Qualitative
20.	AVGAS , JETA-1, MS	Existent Gum	IS:1448 (P: 29), RA 2010	1 to 7 mg/100 ml 0 to 40 gm/m ³
21.	JETA-1	Electrical Conductivity	IP: 274: 2009	20 to 1500 pS /m
22.	MS, AVGAS, SKO, JETA-1, LDO, HSD	Copper Strip Corrosion	IS: 1448 (P: 15), RA 2010 ASTM D-130: 2012	1 to 4
23.	JET A-1	Silver Strip Corrosion	IP: 227: 1999	0 to 4

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24.	HSD, LDO, FO	Pour Point	IS: 1448 (P: 10), RA 2008	(-)15 to +18 °C
25.	MS, AVGAS	RVP TEST	IS: 1448 (P: 39), RA 2012	35 to 70 kPa
26.	HSD, LDO, FO	Ash Content	IS: 1448 (P: 4), RA 2007	0 to 0.180 % wt
27.	HSD, FO, LDO	Water Content	IS: 1448 (P: 40), RA 2010 ASTM D 95: 2013	0 to 25 % Vol.
28.	JET A-1	Particulate Contaminant	IP 216: 2005	0 to 1 mg/ltr
29.	HSD, LDO	Sediment by Extraction	IS : 1448 (P: 30) 2013	0 to 0.25 % by mass
30.	MS	RON	IS 1448 (P: 27) 2013 ASTM D 2699	85 to 94
31.	HSD, LDO	RCR	IS 1448 (P: 8) 2012	0 to 15 % by mass

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