Laboratory Central Petro QA/QC, Reliance Industries Limited, PMD,

B-4, MIDC Industrial Area, Patalganga, Dist. Raigad, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing Issue Date 11.02.2014

Certificate Number T-2155 Valid Until 10.02.2016

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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. INI	DUSTRIAL AND FIN	NE CHEMICALS		
1.	Pure Terephthalic Acid	DCM Y Colour	Licensor – Method / 280	8 to 12
		b – Value	Licensor – Method / 270	0.40 to 2.00
		Millipore	Licensor – Method / 410	0.70 to 0.99
		Water	Licensor – Method / 560	0.05 to 0.30%
		4–CarboxyBenzaldehyde (4– CBA)	Licensor – Method / C&P/DW/TA/6/2A	5 to 30 mg/kg
		Para Toluic acid	Licensor – Method/ C&P/DW/TA/27/1A	10 to 300 mg/kg
		Benzoic Acid	Licensor – Method/ C&P/DW/TA/27/1A	5 to 50 mg/kg
		Acid number	Licensor – Method / 140	625 to 725 mg KOH/g
		Mean Particle Size	Licensor – Method / 400	70 to 120 micron
		Ash	Licensor – Method / 160	3 to 10 mg/kg
		Metals : Cobalt , Manganese , Chromium & Iron	Licensor – Method / C & P/DW/TA/11/1B	0.5 to 2 mg/kg

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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.	Para – Xylene (PX)	Purity by GC		
		 a) Ethyl Benzene b) P - Xylene c) m - Xylene d) o - Xylene e) Non aromatics f) Toluene g) C9+Aromatics 	UOP 720 - 08	0.05 to 0.20% mass 99.50 to 99.85% mass 0.05 to 0.20% mass 0.01 to 0.10% mass 0.01 to 0.10% mass 0 to 0.050% mass 0.010 to 0.050% mass
		Specific Gravity at 15.5/15.5°C	ASTM D 4052 – 11	0.8600 to 0.8700
		Colour	ASTM D 1209 – 05	5 to 10
		Acid wash colour	ASTM D 848 – 09	0 to 5
		Bromine Index	ASTM D 2710 – 09	1 to 10 mg/100g
3.	Linear Alkyl Benzene	Specific Gravity at 15.5/15.5°c	ASTM D 4052 – 11	0.8500 to 0.8700
	Denzene	Paraffin Content	UOP 698 – 04	0 to 0.2% mass
		Homologue distribution a) <c10 -="" b)="" c)="" c10="" c11="" c12="" c13="" c14="" d)="" e)="" f)="" g)="" lab="" lab<="" td=""><td>UOP 698 – 04</td><td>0.1 to 1.5% mass 5.0 to 30.0% mass 20.0 to 40.0% mass 20.0 to 40.0% mass 20.0 to 40.0% mass 0.1 to 2.0% mass 95.0 to 99.0% mass</td></c10>	UOP 698 – 04	0.1 to 1.5% mass 5.0 to 30.0% mass 20.0 to 40.0% mass 20.0 to 40.0% mass 20.0 to 40.0% mass 0.1 to 2.0% mass 95.0 to 99.0% mass

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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
	Linear Alkyl Benzene	Average Molecular weight	UOP 698 – 04	235 to 245
	Бенгене	2 – Phenyl Alkane	UOP 698 – 04	10.0 to 20.0% mass
		Normal LAB	UOP 698 – 04	85 to 95% mass
		SayboltColour	ASTM D 156 – 12	+25 to +30
		Bromine Index	ASTM D 2710 – 09	0 to 10 mg/100g
		Moisture	UOP 481– 10	25 to 200 mg/kg
II. P	OLLUTION & ENV	IRONMENT		
1.	Treated Effluent Sample	pН	APHA 4500-H ⁺ B - 11	0 to 14
		COD	APHA 5220-B - 11	25 to 500 mg/L
		Total Suspended Solids (TSS)	АРНА 2540-D - 11	10 to 500 mg/L