

Laboratory **Quality Control Laboratory, Brahmaputra Cracker and Polymer Limited, Post Lepetkata, Distt. Dibrugarh, Assam**

Accreditation Standard **ISO/IEC 17025: 2017**

Certificate Number **TC-5371**

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Validity **27.03.2019 to 26.03.2021**

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>Rich/ Lean Gas</b>	C <sub>1</sub>	ASTM D1945-14	65.0 Mole % to 99.8 Mole %	
		C <sub>2</sub>	ASTM D1945-14	2.0 Mole % to 10.0 Mole %	
		C <sub>3</sub>	ASTM D1945-14	0.01 Mole % to 5.0 Mole %	
		iC <sub>4</sub>	ASTM D1945-14	0.01 Mole % to 3.0 Mole %	
		nC <sub>4</sub>	ASTM D1945-14	0.01 Mole % to 3.0 Mole %	
		iC <sub>5</sub>	ASTM D1945-14	0.01 Mole % to 2.0 Mole %	
		nC <sub>5</sub>	ASTM D1945-14	0.01 Mole % to 2.0 Mole %	
		C <sub>6+</sub>	ASTM D1945-14	0.01 Mole % to 1.0 Mole %	
		N <sub>2</sub>	ASTM D1945-14	0.01 Mole % to 3.0 Mole %	
		CO <sub>2</sub>	ASTM D1945-14	0.01 Mole % to 10.0 Mole %	
		Specific Gravity	ISO 6976-16	0.5500 to 0.8420	
		Calorific Value	ISO 6976-16	8000 Kcal/m <sup>3</sup> to 13000 Kcal/m <sup>3</sup>	
II.		<b>PLASTICS &amp; RESINS</b>			
1.		<b>Polyethylene/ Poly Propylene (LLDPE/ HDPE/PP)</b>	Melt Flow Index	ASTM D1238 - 13	0.20 g/10 Minute to 70 g/10 Minute
	Density		ASTM-D-1505-18	0.9100 g/cc to 0.9700 g/cc	

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		Colour Yellow Index	ASTM E313-15	(-5.0) to (+5.0)
		Colour White Index	ASTM E313-15	20 to 100
		Xylene Solubility	ASTM D5492-17	1.0 % to 20 %
<b>III.</b>	<b>POLLUTION &amp; ENVIRONMENT</b>			
<b>1.</b>	<b>Waste Water (Effluents) ETP Treated Discharge</b>	pH	IS3025 (PART 11)-2002	5.0 to 9.5
		TSS	IS3025 (PART 17)-2017	10 mg/L to 100 mg/L
		Sulphide	APHA (4500-S <sup>2-</sup> F)-2017	0.1 mg/L to 2.0 mg/L
		Oil & Grease	IS3025 (PART 39)-2014	1 mg/L to 10 mg/L
		Phenol	IS3025 (PART 43)-2014	0.01 mg/L to 1.0 mg/L
		Chemical Oxygen Demand	IS3025 (PART 58)-2017	10 mg/L to 150 mg/L
		Biological Oxygen Demand	IS3025 (PART 44)-2014	1 mg/L to 50 mg/L