Laboratory Accreditation Standard			Hydro Machinery Development Station, Bharat Heavy Electricals Limited, Bhopal, Madhya Pradesh ISO/IEC 17025: 2005				
		rd ISO/IEC 17025: 200					
Disc	ipline	Fluid Flow Testing	Fluid Flow Testing Is		11.02.2014 10.02.2016 1 of 2		
Certificate Number		T-0106		Valid Until			
Last Amended on		-		Page			
6.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		Range of Testing / Limits of Detection		
I. LIO	QUIDS						
1.	Hydro Turbine Model Test of Francis, Kaplan, Pelton, Tubular, Bulb, Pump Turbine & Pump	a) Hydraulic Efficiency: Head	Test Procedure Agreed Mutually between Laboratory and client in line with IEC : 60193 - 1999	(for Test E Upto 140 1	Upto 100 mWC (for Test Bed 1 & 2) Upto 140 mWc (for Test Bed 3)		
		Flow)W		Upto 1.8 m ³ /s (for Test Bed 1 & 2) Upto 0.3 m ³ /s (Pelton for Test Bed 3)		
		Torque		Upto 3450	Upto 3450 Nm		
		Speed		Upto 2200 (for Test E Upto 1950 (for Test E	Bed 1 & 2) RPM		
		b) Cavitation		Upto 1 (Th	noma's Coefficien		
		c) Cavitation Visualization		Visual /Ph (Qualitativ	otographic ve)		
		d) Raunaway Speed		Upto 2200 (for Test E Upto 1950 (for Test E	Bed 1 & 2) RPM		
		e) Pressure Pulsation		Upto 10 m	Wc		

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Accreditation Standa	ard ISO/IEC 17025: 200	ISO/IEC 17025: 2005				
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Certificate Number	T-0106					
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S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	-	Testing / Detection		
	f) Torque:	Test Procedure agreed mutually between				
	Guide Vane,	laboratory and client in line with IEC : 60193 - 1999	u Upto 60 N	m		
	Kaplan Blade,		Upto 240 I	Nm		
	Pelton Deflector		Upto 60 N	m		
	g) Aeration Test		Upto 19.0 (Qualitativ			
	h) Velocity Distribution		Upto 10 n	n/s		
	i) Axial Thrust		Downward 15,000 N Upward 10,000 N			
	j) Radial Thrust		2000 N			