

**NATIONAL CENTRE FOR SUSTAINABLE COASTAL
MANAGEMENT**

Ministry of Environment and Forests (MoEF)
Koodal Building, Anna University Campus
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Specifications for portable pH meter (Quantity required: 2 Nos.)

Item No:	Specifications	
	pH meter capable of laboratory and field based measurements of fresh/saline water pH It should be combined with pH glass electrode.	
1.	Measuring ranges	
a	pH	0 to 14
b	mV	-300 to +300mV
c	Temperature	-150 to +250 °C
2.	Resolution	
a	pH	0.001 pH
b	mV	0.1 mV
c	Temperature	0.1 °C
3.	Measuring accuracy	
a	pH	±0.003
b	mV	±0.2
c	P _t 1000	±0.2 °C (-20...+150 °C)
	Calibration	
	pH calibration: number of buffers	1, 2 or 3
		automatic Correction of temperature dependence of stored buffer values
		automatic buffer recognition
		Storage of calibration data
		Automatic temperature compensation
		Monitoring of slope and pH as against freely definable limit values
	Measurement	
		Acquisition of measured value: immediately, drift- controlled, time- controlled or difference-controlled. Should have a LCD display
		Simultaneous display of pH value and temperature
		High-impedance electrode input
		Entry of user and sample identification should be possible
		At least 200 result memory comprising date, time and identifications
	Communication	Printer or PC connection, Result printout according to GLP/ISO
	Power supplied	Batteries: 4 x LR6, (UM3, AA), 1.5 V
	Protection class	IP67
		Carrying case, others accessories, standard buffer solutions for calibration, electrolyte solution should be provided.