

TECHNICAL SPECIFICATIONS

List of parameters are to be measured for waste water monitoring system is given below:

Technical specifications required for the quotations to called for different sensors for wastewater monitoring system are given below:

TDS (0-10000 ppm), Analog pH (0-14), Turbidity (0- 1000 NTU), Water Flow
DO (0-30 ppm), COD (0-900 mg/l), Ammonia, Nitrogen

Parameter	Range	Resolution	Accuracy
BOD	0-300 mg/l	0.01 mg/l -1	< 5 % of reading*
Coliform Count	>1 count/100ml-1	1 count/100ml-1	1 count/100ml-1
Temperature	-5 to 50 °C	0.01	0.1
pH/ORP	0 to 14 units	0.1	0.1 within 10 C of calibration, 0.2 otherwise
COD	0-600 mg/l	0.01 mg/l	< 5 % of reading*
Optical Dissolved Oxygen	0 to 20 mg/l 20 to 30 mg/l 30 to 50 mg/l	0.01 0.01 0.1	Less than 5%
DOC	0 - 400 mg L-1	0.01 mg L-1	< 5 % of reading*
Turbidity	0 to 40 FNU	4 digits with maximum of two decimals	2% of reading or 0.2
	40-400 FNU		2% of reading or 0.2
	400-5000 FNU		2% of range
Conductivity	0 to 5000 µS/cm	4 digits with maximum of one decimal	±0.5% of reading ±0.001
	0 to 10 mS/cm		±1% of reading ±0.001
	10 to 100 mS/cm		1% of reading
	100 to 275 mS/cm		2% of reading
	0 to 70 PSS	0.01	0.2
	0 to 65 g/	0.1	5% of reading
Ion-selective electrodes (ISE's) to measure Ammonium and Nitrate	0 to 100 mg/l as nitrogen	0.1	5% or 2 mg/l
Fluorometers	0 to 20,000 ppb	6 digits with maximum of two decimals	Linearity of 0.99R ²