

SPECIFICATION OF ONLINE TURBIDITY METER

Sl. No.	Parameters	Description
1	Type	Separate Sensor and Signal conditioner & controller Unit
2	Mounting of Sensor	Sensor shall be mounted in the thickeners to read the turbidity of solution. Chemical composition of Liquor is given in Table 1&2
3	Process parameter	
(a)	Temperature	Upto 50 deg. C
(b)	Pressure	Ambient (Open tank)
(c)	pH	(1) 3.3 to 3.8pH (2) 6.0 to 6.5pH
(d)	Turbidity	(1) 50 - 500 NU (2) 40 - 500 NTU
4	Accuracy	<= 1% of measured value
5	Repeatability	<=1% of reading
6	Response time	Programmable, 3Sec Typical
7	Calibration	User selectable: Single point Calibration/ Two point calibration/ Multipoint calibration
8	Sensor Range	0 to 2000 NTU
9	Sensor cable length	15 meters
10	Sensor accessories	(1) Sensor cleaning through Wiper/flushing system (2) Tank insertion assembly (3) Calibration Kit
11	Signal Conditioner & Controller Unit	
(a)	Power Supply	230V Ac
(b)	Display & keys	Graphical LCD display with feature touch integral keypads
(c)	Output	One 4-20mA output, Max. Impedence 500 Ohm
(d)	Customization	Menu driven program
(e)	Operating Temp.	Ambient, Upto 40 deg. C
(f)	Mounting	Surface, Pie mounting (Horizontal / Vertical)
12	Warranty	1 year replacement warranty on Sensing Probe as well as signal converter cum controller

MAKE: Forbes Marshall, Thermo, HACH, E & H, Emerson

TABLE – 1

Composition details of overflow Liquor (Area -1)

Ph Range of Liquor : 3.3 to 3.8

Sl. No.	Contents	Concentration
1	U ₃ O ₈	4.5 gpl
2	Chloride	25 to 30 gpl
3	Iron	0.005 gpl
4	Manganese	0.02 to 0.05 gpl
5	Calcium	0.5 to 0.6 gpl
6	Silica	0.001 gpl
7	Sulphate (SO ₄)	20 to 25 gpl
8	Phosphate	0.1 gpl

TABLE – 2

Composition details of overflow Liquor (Area -2 & 3)

Ph Range of Liquor: 6.0 to 6.5

Sl. No.	Contents	Concentration
1	U ₃ O ₈	0.04 to 0.05 gpl
2	Chloride	25 to 30 gpl
3	Manganese	0.02 to 0.05 gpl
4	Magnesium	1.0 to 1.5 gpl
5	Calcium	0.7 to 0.8 gpl
6	Silica	traces
7	Sulphate (SO ₄)	15 to 20 gpl
8	Phosphate	0.1 gpl