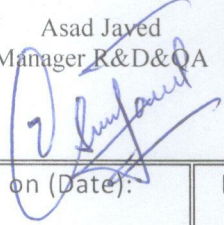
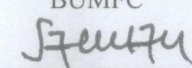


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WORK INSTRUCTION

Title
METHOD FOR DETERMINATION OF PH

Prepared by Asad Javed Manager R&D&QA 	Approved by Salman Fazul -ur Rehman BUMFC 	PAGE 1 (2)	REV 1	DATE 01.07.2024	DOC NO. WIQA/BU-FC/8.2.4/14
Reviewed on (Date): Reviewed by:	Reviewed on (Date): Reviewed by:	Reviewed on (Date): Reviewed by:	Reviewed on (Date): Reviewed by:		
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1.0 PURPOSE:

To check the pH of fountain solution, fillers and pigments.

2.0 SCOPE:

This method covers measurement of the pH of the fountain solution, fillers & Pigments.

3.0 REFERENCES:

Sr. No.	Reference Document	Doc. No.
3.1	Standard Test Method	Tappi 667 cm - 90

4.0 APPARATUS:

4.1	Weighing Balance	Precision up to 0.001 gm
4.2	pH Meter	
4.3	Glass Beaker	250 ml
4.4	Magnetic Stirrer	

5.0 REAGENTS:

5.1	Distilled Water	
5.2	Buffer Solution of pH 7	Dissolve one standard buffer tablet of pH 7 in 100 ml of distilled water.

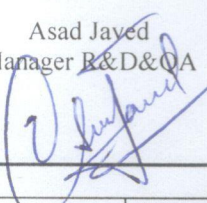
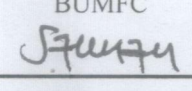
6.0 PROCEDURE:

SR. NO.	ACTIVITIES
6.1	METHOD FOR pH OF FOUNTAIN SOLUTION
6.1.1	Weigh 3 g of the sample in the beaker.

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6.1.2	Make up 100 g with water and mix well.
6.1.3	Calibrate the pH meter with standard buffer solution.
6.1.4	Adjust the temperature of the test sample at $26 \pm 1^{\circ}\text{C}$
6.1.5	Immerse the pH electrode in the sample.
6.1.6	Note the pH of the sample on the pH meter.

7.0 PROCEDURE:

SR. NO.	ACTIVITIES
7.1	METHOD FOR pH OF FILLERS and PIGMENTS
7.1.1	Add 20g of the sample to 80 g water.
7.1.2	Mix with a magnetic stirrer for 3 minutes.
7.1.3	Calibrate the pH meter with buffer solution.
7.1.4	Adjust the temperature of the test sample $26 \pm 1^{\circ}\text{C}$
7.1.5	Immerse the pH electrode in the sample and measure the pH while mixing the suspension slowly and cautiously.
7.1.6	Do it quickly to prevent the suspension from setting

8.0 RESPONSIBILITY:

- Lab Assistant
- QA Supervisor

