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|   | <b>SUBJECT: SOP FOR<br/>NEPHELOTURBIDOMETRY</b>  | <b>PAGE NO.: 1-2</b><br><b>EFFECTIVE DATE:<br/>01/01/2022</b><br><b>REVIEW PERIOD:<br/>31/12/2022</b> |

- **PURPOSE:** The purpose of this standard operating procedure (SOP) is to describe the operation and calibration of the Nepheloturbidometry.
- **OBJECTIVES:** To lay down the procedure for operation and calibration of the Nepheloturbidomtry for better and error free use.
- **SCOPE:** This SOP is applicable to the operation and calibration of Nepheloturbidometry at the quality control department.
- **PRECAUTION:**
  - Turbidity Standards are nontoxic, but can irritate eyes and skin.
  - Wear gloves when handling Turbidity Standards and anytime there is direct exposure to wastewater.
  - Wear goggles when testing wastewater.
  - Wash hands after calibration and after exposure to wastewater.
  - When using equipment in the field, be aware of your surroundings. Select an area in which you feel safe and secure from hazards.
- **Standard Operating Procedure:**
  - Fill turbidity vial (has white line around top of glass with downward arrow) to the line (about 15ml) with unfiltered water. Take care to handle the sample cell by the top. Cap the cell.
  - Wipe the cell with a soft,lint free cloth to remove water spots and fingerprints.
  - Press I/O the instrument will turn on. Place the instrument on a flat surface. Do not hold the instrument while making readings.

- Put the sample vial in the instrument cell compartment so its diamond mark aligns with the raised orientation mark in front of the cell compartment. Close the cover.
- Set automatic range by pressing the RANGE key. The display will show “AUTO RNG”.
- Select signal averaging by pressing ‘signal average’ key, display should show “SIG AVG”
- PRESS READ- the display will show “—NTU” and the light bulb icon will flash 10 times. The final average will be displayed as numbers in NTU after the lamp symbol turns off.

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