



**GAWANDE COLLEGE OF  
PHARMACY.**

Sakharkherda, Lavala Road, Tq.  
Sindkhed Raja  
Dist. Buldhana



Department: **Analytical Chemistry**

Name of the instrument: **FLAME PHOTOMETER**

S.O.P. No.: GCP/PH/009

Stock Register No.: AC-0017/02

Effective date: 6/2/17

Review date: 17/2/17

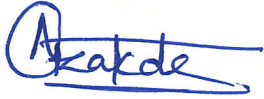
**Procedure:**

1. Ensure that instrument is clean and free from dust.
2. Ensure that plug is connected to the mains.
3. Press power 'ON/OFF' switch at the panel to 'ON' position.
4. Keep both AIR and GAS controls closed by turning clockwise to the maximum extent.
5. Switch the compressor ON and allow 10 min for buffer tank filling.
6. Turn AIR control anticlockwise to allow air into the mixing chamber.
7. Adjust AIR control to read 10 psi ( $0.7\text{kg/cm}^2$ ) on the AIR pressure indicator, allow 5 min for air pressure stabilization.
8. Keep igniter tip into flame chamber through view port, turn GAS control anticlockwise slowly to allow the LPG fuel into the mixing chamber. Press the igniter to light the burner.
9. Adjust GAS control to get silent flame on the burner tip with sharp blue cones of approximately 8 to 10 mm height. Allow flame to stabilize for about 20 min.
10. Prepare the sample in dissolved form of required dilution for the measurement.
11. For further procedure refer instrument manual.
12. Switch OFF the instrument when not in use for long period.



**FLAME PHOTOMETER**

**Prepared by**




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