or,
$$v_o =$$

or,
$$v_o =$$

$$v_0 = \dots m/s$$

PERCENTAGE ERROR:

Standard value of velocity of sound at NTP, $v_s = \dots m/s$

Observed value of velocity of sound at NTP, $v_0 = \dots m/s$

RESULT:

The velocity of sound at laboratory temperature $(\dots \circ C)$ has been found to be $\dots \dots$ and the velocity of sound at NTP has been found to be $\dots \dots$ with \dots error.

CONCLUSION:

Thus, the velocity of sound in laboratory temperature is found by using resonance air column method.

SOURCES OF ERROR:

- 1. Error may be due to the confusion on distinguishing the resonance.
- 2. Error may be due to inclined position of resonance tube.
- 3. Error may be due to carelessness of experimenter.

PRECAUTIONS:

- 1. The resonance tube should be set vertical.
- 2. The tuning fork should be neat and clean and the vibrating tuning fork should be held horizontally just above the tube.
- 3. The water level should be changed very slowly.
- 4. Resonating points should be carefully identified.
- 5. The reading of the water level should be taken at the lower meniscus.