

SOP of Plasma Asher

1. Book the online slot before using the plasma asher.
2. Activate the slot and fill the logbook.
3. Oxygen cylinder main knob is kept closed so, open that using the key.
4. Vent the chamber →
5. Arrange samples on the substrate holder.
6. Close and hold the chamber door, turn ↓
7. **PUMP ON, GAUGE ON**
8. Wait till pressure reaches 0.05 mbar and note that time in the logbook.
9. Turn knob slowly ←, O₂ will be released.
10. Wait till pressure reaches 0.5 mbar.
11. **PLASMA ON, RF power ON, wait 20 seconds, turn RF level OFF to HI slowly.** (Wait a few seconds for the plasma to come.)
After Ashing (max 10 min)
12. Turn **HI to OFF, RF power OFF, PLASMA OFF.**
13. Turn ↓, Wait for 30 sec.
14. **PUMP OFF.**
15. Vent the chamber very slowly →
16. Take the samples out, keep substrate holder inside.
17. Close and hold the chamber door, turn ↓
18. PUMP ON (for 1 min)
19. **PUMP OFF, GAUGE OFF.**
20. **Close the main cylinder knob using the key after every process.**

IMP NOTE:

- ❖ **Don't disturb any setting in the plasma asher. Don't disturb regulator of the cylinder.**
- ❖ **Don't forget to turn off the pump.**