



# PHARMA DEVILS

## PRODUCTION DEPARTMENT

### STANDARD OPERATING PROCEDURE

<b>Department:</b> Production	<b>SOP No.:</b>
<b>Title:</b> SOP for Operation of Boiler	<b>Effective Date:</b>
<b>Supersedes:</b> Nil	<b>Review Date:</b>
<b>Issue Date:</b>	<b>Page No.:</b>

**Purpose:** To lay down operating procedure of Boiler.

**Scope:** This procedure is applicable to .....

**Responsibility:** Production Chemist  
To supervise the activity

#### Procedure:

##### For starting the Boiler:

1. Check the level of fuel oil tank & soft water tank & open the tank valve.
2. Check that main steam stop valve is closed.
3. Open the by pass valve.
4. Check that economizer drainage valve & blow down valve is closed.
5. Start the main switch of boiler control panel.
6. Turn the FILL/FIRE selection knob on FILL position.
7. Check that water pump is open & flow of water through steam by pass valve.
8. Turn the FILL/FIRE knob on FIRE position.
9. Check that blower & oil pump is started or not.
10. After 5 to 7 seconds, burner indicates flame on light panel. Check the flame through eyeglass.
11. Check that steam pressure gauge shows the pressure of 4 kg after 4 to 5 min., then slowly stop the steam bypass valve & slowly open the steam stop valve.

##### For stopping the Boiler:

1. Stop the steam stop valve slowly.
2. The control panel indicates high steam pressure by means of glowing yellow light & blower, water pump & oil pump get stopped.
3. Turn the FILL/FIRE switch to OFF position.
4. Open the blow down valve completely.
5. The steam pressure gauge indicates zero pressure, then stop the blow down valve.
6. Turns the FILL /FIRE switch to FILL position & open the steam bypass valve.
7. Turn the FILL/FIRE switch to OFF position.
7. Open the economizer drain valve for draining of water.
8. Close the fuel oil tank & soft water tank valve.
10. Switch OFF the main electric supply.



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### Precautions

1. Blow down the blower every 4 hours.
2. During immediate start of boiler after being switched off, steam temp must be below 90°C.
3. To immediately stop the boiler, steam pressure must be below 50°C.
4. Check the steam pressure & water level during the operation.
5. Check if any black/white smoke appears through chimney.

