**Name of the Scientific Laboratory: Foundry Processes Laboratory**

1. **Objectives of the Scientific Laboratory:**

**Heat treatment of metals**

**Casting of low-melting-point metals**

1. **List of Laboratory Equipment:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **№** | **Equipment Name** | **Brief Equipment Description** | **Tasks Performed on the Equipment** | **Year of Manufacture** | **Certification (yes/no)** | **Verification Date** | **Equipment Notes** |
|  | **Drying, Dehydration, and Heat Treatment Machine (Electric Furnace)** | **Temperature Control Range: 50 to 1300 °C**  **Heating Time of the Electric Furnace to Nominal Temperature without Settling: 75 minutes**  **Temperature Stability in Established Thermal Mode without Settling: ± 1 °C** | **For heat treatment and drying of various samples** | **2015** | **no** | **Октябрь 2015** | **no** |
|  | **Muffle Furnace** | **Temperature Control Range: 50 to 1300 °C**  **Heating Time of the Electric Furnace to Nominal Temperature without Settling: 75 minutes**  **Temperature Stability in Established Thermal Mode without Settling: ± 1 °C** | **For heat treatment and drying of various samples** | **2015** | **no** | **October 2015** | **no** |
|  | **Drying Cabinet** | **Working Chamber Volume: 80 liters**  **Range of Working Temperatures: 50 to 350 °C**  **Temperature Fluctuations Over Time: ±1 °C** | **Drying of samples** | **2015** | **no** | **November 2015** | **no** |
|  | **Muffle Furnace (1600 – 1700 ◦С)** | **Maximum Temperature: 1700°C**  **Power: 12 kW**  **Weight: 120 kg** | **Metal Melting and Heat Treatment** | **2023** | **no** | **-** | **no** |

Responsible person: Kulumbayev N.K.

Contacts: Tel. 8(7182)67-36-23, email