**Name of the scientific laboratory: Laboratory of Ore Enrichment and Ore Preparation**

1. **Objectives of the scientific laboratory: Preparation of ore materials for use in metallurgy.**
2. **List of laboratory equipment:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **№** | **Equipment Name** | **Brief Equipment Description** | **Tasks Performed on the Equipment** | **Year of Manufacture** | **Certification (yes/no)** | **Verification Date** | **Equipment Notes** |
|  | Jaw Crusher | **Receiving opening dimensions:**  **Length – 194 mm**  **Width – 110 mm**  **Dimensions of loaded material chunks – 404040**  **Particle size of the finished product – 0.5 mm** | Crusher for crushing brittle chunky materials | **2015** | **no** | **11.12.2015** | **no** |
|  | Planetary Mill | **Jar capacity – 1 liter**  **Number of jars – 4 pcs**  **Fraction size after grinding – 1-0.2 μm**  **Jar rotation speed – 90-580 rpm**  **Impeller rotation speed – 50-320 lb/min** | Mill for fine grinding brittle materials | **2015** | **no** | **11.12.2015** | **no** |
|  | Vibrating Screen | **Diameter of sieving surfaces – 300 mm**  **Number of sieving elements – 5 pcs**  **Amplitude of vibrations – 0.25-1.5 mm**  **Particle size of material – 3 mm** | Continuous dry sieving of bulk materials | **2015** | **no** | **December 2015** | **no** |
|  | Vibrating Sieves | **Frequency of oscillations per minute – 880**  **Voltage, V – 220 V, single-phase**  **Power, kW – 0.35** | Sieving bulk materials by fractions | **1985** | **no** | **no** | **no** |
|  | Electronic Scales | **Maximum load – 6 kg**  **Price of verification divisions and discreteness – 1/2**  **Weighing intervals – from 0.02 to 6 kg**  **Permissible error limits – from ±1 to ±6** | Precise determination of sample mass | **2015** | **no** | **30.11.2015** | **no** |

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