**عنوان المشروع :**

**تطويرالمعمل المركزي بكلية العلوم جامعة قناة السويس وتأهيله للاعتماد الدولي**

**Improvement of Central Laboratory of the Faculty of Science in Suez Canal University and Qualifying it for International Accreditation**

**الجهة الممولة**:

**وحدة إدارة مشروعات تطوير التعليم العالى**

**وزارة التعليم العالي**

**مشروع الاعتماد الدولى للمعامل**

**الدوره الثانية عشر**

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**د/ مدحت محمد كامل**

| No. | Equipment | Model and Year of Purchase | Application |
| --- | --- | --- | --- |
| 1 | **Real Time PCR** | **QuantStudio 1**  **Applied Biosystems Therom fisher**  **2021** | Real-time PCR, or qPCR, is a fast developing field with wide **ranging applications for researchers**. From gene expression analysis and population genotyping studies, to the multiplex detection of several disease targets, real-time PCR has opened the door to a world of possibilities. |
| 2 | **Nanodrop** | **ND- One C-W**  **Thermoscientific**  **2021** | NanoDrop Technologies is **designed for quantify and assess the purity of samples such as proteins and nucleic acids**. |
| 3 | **Benchtop Refrigerated centrifuge** | **Heraeus Megafuge 8 R**  **Thermo Fisher Scientific** | separate mixtures by applying centrifugal force. |
| 4 | **Biohazard Vertical**  **Safety Laminar** | **MSC-Advantage1.2**  **Thermo Scientific**  **2021** | Provide clean bench providing a contamination-free area to handle lab samples, products, and other specimens. |
| 5 | **Vertical Autoclave** | **Model**  **ST-50G, Jeio Tech**  **2021** | **Sterilization** |
| 8 | **Manometric BOD Apparatus** | **Velp (Sensor system 6)**  **2021** | **Measure Biochemical oxygen demand (BOD) in water samples** |
| 9 | **COD Reactor** | **Velp (ECO 25)**  **2021** | **Digestion sample device for chemical oxygen demand (COD) determination** |
| 10 | **Water purification system** |  | **Purify water for several lab usage (AA, Molecular, etc..)** |
| 11 | **Shaker Incubator** |  | **Shaking incubators combine the functions of a traditional incubator and a laboratory shaker for efficient performance in applications like cell aeration, studies of solubility, and cell culturing.** |
| 12 | **Micropipette** |  | An essential laboratory instrument used **to accurately and precisely transfer volumes of liquid in the microliter range**. |