



# OXXIRA KITS PRODUCTION REQUIREMENTS REPORT

**Prepared by:** Team Oxxira

**Date:** 17<sup>th</sup> April 2025

**Project:** Oxxira Systems

**Purpose:** Proposal of required resources for workshop setup, logistics, and team support

---

## Executive Summary

This report outlines the essential components needed to establish a functional and efficient workshop environment for the Oxxira team's hydrogen energy innovation project. It includes space design, tools, transport, team welfare, and workflow management systems to ensure seamless execution from prototyping to final testing. These recommendations serve as a foundation for supporting innovation while maintaining safety, collaboration, and productivity.

---

## Introduction

The Oxxira team is committed to developing innovative hydrogen-based energy solutions, starting with the design and construction of an HHO (Brown's gas) system (Oxxira kits). To bring our vision to life, it's essential that we create a dedicated and fully equipped workshop environment that supports safe and efficient prototyping, assembly, and testing. This document outlines all the physical, technical, and logistical requirements needed to establish such a workspace, and provide comfort and support for the team during project execution.

### 1. Workshop Space

- **Size & Layout:** Spacious enough to accommodate assembly stations, storage units, and testing zones without crowding.
- **Ventilation:** Adequate airflow systems, exhaust fans, or open windows for safe handling of gases and fumes.

- **Power Supply:** Both standard (240V) and high-voltage outlets available for different tools and systems.
- **Lighting:** Bright overhead lights and task lighting for detail-oriented work.
- **Safety Zones:** Clearly marked areas for flammable materials, high-voltage equipment, and emergency exits.

## **2. Toolbox Requirements**

### **Basic Hand Tools:**

- Screwdrivers (Phillips & flathead)
- Wrenches (adjustable & socket)
- Pliers (needle-nose, cutting, standard)
- Hammers
- Utility knives
- Tape measures
- Clamps

### **Power Tools:**

- Electric drill with multiple drill bits
- Angle grinder
- Soldering iron
- Hot glue gun
- Circular or jigsaw

### **Electronics & Circuit Tools:**

- Multimeter
- Wire strippers
- Soldering tools
- Breadboard
- Heat shrink tubing
- Power supply unit
- Arduino/microcontroller kits
- Crimping tool
- Cable ties, Velcro straps

#### **Measurement & Precision Tools:**

- Caliper
- Protractor/angle finder
- Level
- Precision scales

#### **Safety Tools:**

- Safety glasses
- Gloves
- Face shield
- Ear protection

- Fire extinguisher

#### **Miscellaneous:**

- Magnetic tray
- Tweezers
- Lubricants/grease
- Cleaning supplies (rags, solvents)

### **3. Refreshments & Comfort**

- **Drinks:** Clean water, juice, energy drinks, coffee or tea anytime.
- **Snacks:** Granola bars, fruits, and light, energizing snacks.
- **Break Area:** A cozy, clean space with chairs and tables where the team can chill, eat, or recharge.
- **Meal Planning:** Coordination for breakfast, lunch, and other refreshments if working for long hours—either ordering food or scheduling regular breaks to keep the team energized.

### **4. Transport & Logistics**

- **Team Commute:** Organized carpools, travel stipends, or coordinated transport to and from the workshop.

### **5. Documentation & Project Tracking**

- **Whiteboards/Notice Boards:** For brainstorming, daily updates, and task assignments.
- **Daily Logs:** Encourage short end-of-day logs from team members to record progress, issues, and next steps.

- **Version Control:** Keep track of system designs, circuit diagrams, and programming code updates using tools like Git or cloud-based storage.

---

## Conclusion

The Oxxira team is committed to creating a cutting-edge, sustainable energy solution through our HHO system. By equipping our workshop with the necessary tools, resources, and comfort for our team members, we are setting the foundation for successful innovation. The guidelines provided in this document will ensure that we have a safe, efficient, and productive environment to achieve our goals, both now and in the future. Through collaboration, dedication, and careful planning, we are confident that Oxxira will lead the way in hydrogen energy technology.

---

**Prepared by:**

**Team OXXIRA**

**Reviewed by:**

**SVA Research and development desk**

Reponse DUFITIMANA



Armel Shema  
SHEMA ARMEL