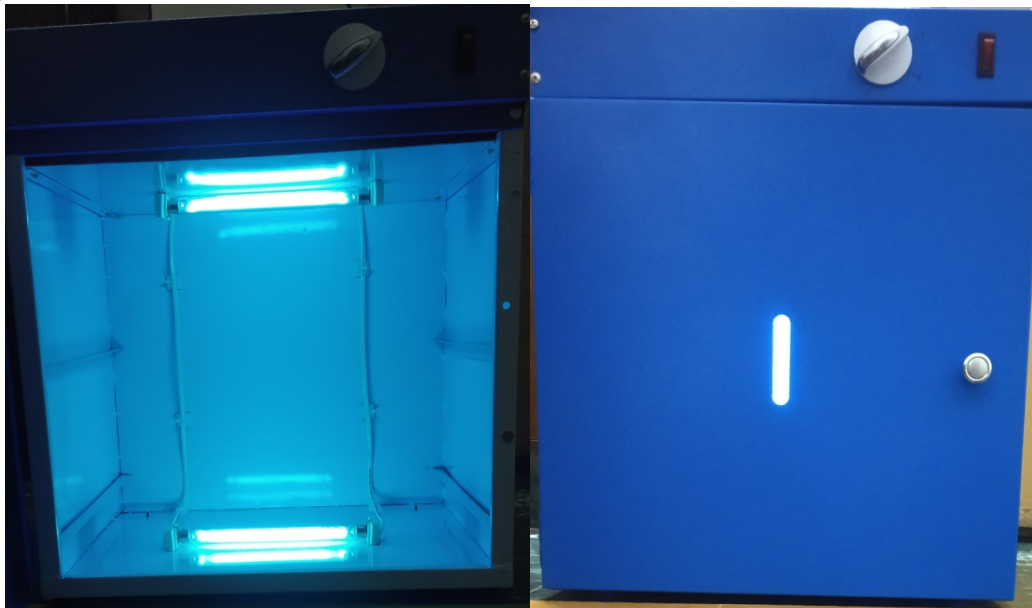


BIO-GUARD M20

Name of department – Instrumentation and Control Engg., L. D. College of Engg.

Introduction and concept-:

- The main aim and objective are to disinfect day to day gadgets and reducing the spread of infection diseases, viral infections, bacteria and other types of harmful organic microorganisms attached to their surface by breaking down their DNA-structure.
- UV disinfection chamber **BIO-GUARD M20** which is used to sanitize gadgets Like electronic devices – mobile, PDA, Hands free etc, Leather purse, vegetables etc. here we used an UV-C lamp having **254 nm** of wavelength which destroys the **DNA** structure of cells, bacteria, viruses, fungi, algae etc. In this box reduces the risk of disinfection, cost of traditional cleaning and disinfection, and most importantly acquires confidence and security in medical facilities. This also incorporates with safety limit switches and timer base mechanism. It takes around 2-5 minutes to sanitize several things and this product is also tested and certified by NABL accredited laboratory.
- This project funded under Student start up and innovation (SSIP) policy of Govt. of Gujarat



Faculty Mentors :-

1. Dr. Manish Thakker Head of IC Dept.
2. Prof. Mihir Vasavada Asst. Prof. Electrical Dept.

Student name-:

Milan Desai IC Dept.



IMPORTANCE OF PROJECT FOR SOCIETY

- This product can be beneficial to the commercial and residential sectors like home, school ,college campus, office, hospitals and the doctors which are linked in the sanitize the hospital equipments.
- Current manual cleaning methods are nearly helpless in combating against bacteria, but the battle is not lost. Infection prevention technologies are giving rise to a new era of ultra-clean and emergency care facilities with the implementation of highly efficient **UV**-disinfection box.