

1. TECHNICAL SPECIFICATION

Schedule - II

AUTOMATED MICROBIAL GROWTH DETECTION SYSTEM

1. The system should be a fully automated, walk away system capable of culture from blood, platelet and sterile body fluids.
2. The system should be based on fluorescence / colorimetric technology for interpretation of results.
3. The system should have **minimum 30 cells** and should be a modular model which can be upgraded as per requirement of the Lab in the future.
4. Media should be able to detect bacteria and yeast/fungal, aerobic and anaerobic organism from the blood, platelet and sterile body fluids with additional antimicrobial neutralization substances.
5. The system should have the capability to process samples of adult and pediatric patients and have dedicated media for pediatric and adult samples.
6. The system should have the capability of continuous monitoring of the clinical samples.
7. The culture media should have additional antibiotic neutralization substances to minimize chances of false negatives due to high antibiotics in specimens and have minimal time detection of organisms.
8. The system should have the capability of analyzing and detection of delayed entry of specimens at growth, stationary and decline stage (both log & lag Phase).
9. The media bottles should be unbreakable and ease of disposal as per the recommendation from Occupational Safety and Health Administration, U.S.A.
10. The system should be maintenance free without any need for regular calibrations, controls or standards run by the user.
11. The system should be leak proof and non- invasive to avoid contamination of equipment and the environment.
12. The system should be supplied with a complete system with all accessories
13. **The equipment should be CE(EU) 4 digit / USFDA certification**
14. The firm should provide complete installation and training with that they should have a strong support system to help in the future as per the need.
15. **Appropriate KVA of UPS must be supplied with the machine**
16. **Minimum 100 bottles must be supplied with the system as a starter kit**