



# CENTER FOR RESEARCH,



# CONSULTANCY AND TECHNICAL SERVICES

Managed by:

Rayat Shikshan Sanstha's

KARMAVEER BHABURAO PATIL COLLEGE, VASHI  
(Autonomous)

FDA approved

Public Testing Laboratory

License no: MH/104596

Soon to be NABL Accredited



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## About Us

**Rayat Shikshan Sanstha** is the largest educational organization in India which was established in 1919 by Padmabhushan Karmaveer Bhaurao Patil. Currently, it has 730 branches spread over 14 districts of Maharashtra and one district of Karnataka. **Karmaveer Bhaurao Patil College, Vashi;** is one of the finest institutes of Rayat Shikshan Sanstha, established in 1979. It is an ISO 9001:2015 certified institute. The college has been accredited for the third cycle by NAAC with 'A+' grade and CGPA 3.53 in 2017.

**Center for Research, Consultancy and Technical Services** is located in the college campus with a fully GLP-compliant state-of-the-art Research, Consultancy and Testing facility.

We are committed to provide our customers with the latest and most advanced technologies which deliver the highest quality products to the consumers. Our laboratory is equipped with the latest analytical equipment. We provide consultancy and testing services in the field of Food, Pharmaceuticals, Cosmetics, Water, Environment, Textiles and many more. We also undertake contract research. Our clientele come from Research Institutes, Academic Institutes, Medical, dental, Pharma Colleges & Hospitals, Manufacturing units and Industries

## Testing Facilities:

**A. Food Testing:** We offer a single point solution to all the food testing needs of industry for domestic and export markets, as per IS, ISO, BIS, BAM methods.

1. Nutritional Labeling
2. Adulteration Testing
3. Microbiological Analysis Including Detection & Identification of Pathogens.
4. Meat & Meat Products Testing
5. Fish & Frozen Food Testing
6. Canned and Processed Food Testing
7. Beverages (Alcoholic /Non-alcoholic) Test
8. Milk & Dairy Products Testing
9. Herb, Spices & Condiments Testing

**B. Water Testing:** We routinely carry out Water testing as per specification laid down by IS, IP or other methods.

1. Packaged Drinking Water
2. Packaged Natural Mineral Water
3. Drinking Water, Portable & Domestic
4. Purified Water
5. Analysis of Organic and Inorganic Constituents
6. Microbiological Quality Testing of Water

## C. Pharmaceutical and Cosmetics Testing:

We undertake testing & analysis of Pharmaceutical & Cosmetic products as per ISO, IS, IP, EP, USP, BP, JP, BAM etc. We test the following parameters.



1. Detection & Identification of Pathogens
2. Microbiological Assays of Antibiotics & vitamins
3. Sterility Testing
4. Microbial Limit Test
5. Limit Tests for Metals/ Heavy Metals
6. Qualitative/Quantitative Analysis by FTIR, GC, HPLC, AAS
7. Preservative Efficacy Testing

#### **D. Testing of Medical Devices, Packaging Materials & Fomites:**

1. Sterility Testing
2. Bio-Burden Test
3. Swab Analysis

#### **E. Testing of Textile and Textile Products:**

We offer microbiological analysis for textile samples using AATCC, JISC & ISO standards.

1. Antimicrobial Activity of Carpets
2. Antibacterial Activity of Textile Material /Fabric/ Product: Parallel Streak Method & Agar Diffusion Plate Method
3. Antifungal Activity, Mildew & Rot-Resistance of Textile Material

#### **F. Testing of Chemical Disinfectants and Antiseptics:**

Evaluation of bacteriostatic & bactericidal activity of chemical disinfectants & antiseptics used in industrial, domestic & institutional areas is carried out as per BS EN standards.

#### **G. Testing of Pathological Samples**

1. Blood Collection Service
2. Blood Group Identification & Rh Antibody Titre
3. Blood Culture & Sensitivity
4. Anaerobic Culture
5. Fungal Wet Mount & Smear, Fungal culture
6. Staining Methods: AFB, Gram Staining, Capsule, Spores, Volutin Granules, Lipid Granules
7. Rapid Pathogen Identification by Vitek-2
8. Antibiotic Sensitivity Test (AST)
9. Serology: VDRL, Widal, CRP, RA, A.S.O. Titre, Coomb's Test Direct/ Indirect
10. Kit Based Testing: Dengue IgG/IgM, Dengue NS1 Ag, MP, Australian Antigen (HbsAg)

**H. Environmental Testing:** Following environmental samples are tested as per relevant standards.

1. Waste Water/Effluent (Treated, Untreated)
2. Air (On-site: Active & Passive Method)
3. Soil Samples
4. Hazardous Waste

#### **I. Research Based Services:**

Microbial & chemical services are provided by experts, as per the client requirements.

**Potential Beneficiaries:** UG, PG Research students, Research scholars, PhD fellows, PD Researchers, Teaching faculty (MRPs).

#### **Sophisticated instruments:**

- HPLC
- GC
- Atomic Absorption Spectrophotometer
- CHNS(O) Elemental Analyzer
- FTIR
- Flame Photometer
- UV Visible Spectrophotometer
- Gouy balance
- Ultra-sonicator
- Automated Microbial Identification System- Vitek-2 Compact
- Phase Contrast Microscope
- Scanning Electron Microscope (SEM) with EDAX

**For Details Contact:**

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