

**School of Studies in Biotechnology,
Pt. Ravishankar Shukla University, Raipur**

Infrastructure Facility (Current Status)

S.N.	Title	
1.	Classrooms	06
2.	Laboratory	11
3.	Instrumentation Room	01
4.	Head Chamber	01
5.	Faculty Room	06
6.	Office	01
7.	Tissue Culture Lab (Saveer Biotech)	01
8.	Green House	01
9.	Store Room	03
10.	Seminar Hall	01
11.	Conference cum Smart Class Room	01
12.	Computer Lab.	01
13.	Herbal Garden	01
14.	Dark Room	01

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LIST OF EQUIPMENTS AVAILABLE IN THE DEPARTMENT

Lab Facility (Current Status)

S.N.	Name of the Equipment	Condition	Purpose/ Details
1.	Digital Microscope	Working	Observation and photography of microbial cultures
2.	Fluorescence Microscope	Working	Observation and photography of microbial cultures
3.	Inverted Microscope	Working	Observation and photography of cell lines
4.	Stereo Microscope	Working	Observation and photography of microbes spores and morphology
5.	Spectroquant Nova 60 Photometer	Working	Quantitation of Metals
6.	Thermo Cycler	Working	DNA amplification
7.	Gel Doc System	Working	Documentation and analysis of Gels
8.	UV-visible Spectrophotometer	Working	Analysis and quantification of various compounds
9.	Fluorescence Spectrofluorometer	Working	Analysis and quantification of various compounds
10.	Deep Freezer -80°C	Working	Storage of chemicals and cultures
11.	High Speed Centrifuge	Working	Isolation of various components
12.	CO ₂ Incubator	Working	Storage of cell lines
13.	Milli Q Water System	Working	Preparation of ultrapure water
14.	HPLC	Working	Identification and quantification of different molecules
15.	UV Trans illuminator	Working	Analysis of Gels containing DNA bands
16.	Bio Safety Cabinet	Working	Working on Microbial culture
17.	Programmable Environmental Chamber	Working	Provide desired environmental condition for objective microorganisms.

18.	ELISA reader (Micro Scan)	Working	Analysis and quantification of immunological and enzymes activities.
19.	Orbital Shaking Incubator	Working	Provide desired physical factor alike incubation, temp. & rpm etc. for optimal performance.
20.	Water Quality Analyser PE 138	Working	Water quality analysis.
21.	D O Analyser PE 135	Working	Measures Dissolved oxygen
22.	Air Sampler	Working	Sampling of bio-aerosol.
23.	EC-TDS Analyser CM 183	Working	Measures directly electrolyte conductivity and total dissolved solid of samples.
24.	Ethanol Distillation Unit	Working	Distillation of Bioethanol
25.	Vacuum Evaporator	Working	Extraction of Bio-chemical compound

Infrastructural Facilities



Instrumentation Facility

