

## **Central Research Laboratory (CRL)**

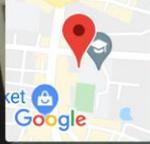
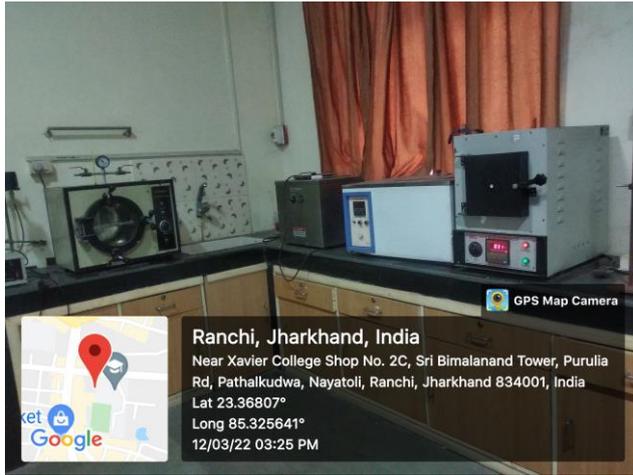
Excellence in teaching and research by Science Faculty need state-of-the-art sophisticated equipment and support facilities. In view of this, the college established a **Central Research Laboratory (CRL)** in 2010 to enable the faculty and students to achieve excellence in multidisciplinary research with industry relevance. The instruments and facilities at CRL help the faculty, research scholars and students of Physics, Chemistry, Zoology, Botany and Geology to carry out globally competitive research in basic, applied and medical sciences. The modern analytical instruments present in this lab offer a wide range of analytical methods/techniques for chemical/material testing and analysis. This consequently help researchers to publish their research findings in peer reviewed high impact factor journals, ultimately contributing to the upliftment of the society at large.

This facility is extensively used by undergraduate and post graduate students, doctoral research scholars and faculty members. The facility is also extended to students of external organizations mainly academic institutions in the region. The CRL provides facilities and assistance in sample preparation to the users. The CRL carries out analysis of samples received from students, faculty members and other researchers and provides spectra/results of analysis,

### **Instruments available at CRL:**

1. Programmable Furnace- upto 1450<sup>0</sup>C, Naskar& Company, India
2. Programmable Furnace- upto 1700<sup>0</sup>C, Naskar& Company, India
3. Non- Programmable Furnace- upto 1000<sup>0</sup>C
4. Muffle Furnace, upto 600<sup>0</sup>C, Tanco India
5. Vacuum Oven, Obromax, India
6. Ball Mill- PM 200, Retsch Germany
7. Impedance Analyser, Hioki 2532, Japan
8. FTIR Spectrometer, Bruker, Alpha-T, Germany
9. Palletiser, Kimaya Industries, Mumbai, India
10. Digital Balance- Sartorius/ Wensar
11. Magnetic Stirrer with Hot Plate, REMI India
12. Overhead Stirrer, Trishul, India
13. Oilbath, Tanco, India
14. U.V. Spectrometer, Scientech, India
15. Sonicator, Vibronics

Till now five faculty members of the college have availed the facilities of the research centre during their PhD course. The lab has catered to the needs of doctoral research work by faculty of the college as well as research scholars from outside the college.



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