

# Central Instrumentation Facility

## (National Center for Natural Resources)

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## ABOUT

The Central Instrumentation Facility (National Center for Natural Resources) came into existence in the year 2012 under the Intensification of Research in High Priority Areas scheme of Department of Science and Technology, New Delhi. This center has initially been established to document flora of the Chhattisgarh State, and identify medicinal plants those are having potency to target autoimmune disorders of the human being. Earlier, this facility has been opened for the students and faculties of this campus, later on it has been made available for the other institutions of the State and out of the State. This facility has been developed also to promote quality, collaborative, interdisciplinary and translational researches, and innovations in various sectors.

## OBJECTIVES



- Provide hands-on-training to faculties and students.
- Develop and maintain analytical facilities.
- Conduct skill related programs for students.
- Establish collaborations to intensify research.

## CONSULTANCY SERVICES



This facility offers different kinds of services such as sample analysis, method development, analytical services, extraction and purification of samples, *etc.* Moreover this center also provides hands-on-training for the dedicated instruments and helps designing of research problems, as per the need.



## WORKSHOP/ SEMINAR/ CONFERENCE/ TRAINING



This center frequently organizes National and International conferences/ seminars, hands-on-training programs, workshops and skill oriented events for the students and faculties of this campus and out of the campus.



## VISITORS AND DEMONSTRATIONS



This center is very well available to all the students and faculties for visits and acquire knowledge regarding available facilities and to develop know how pertaining to sample preparation and analysis by dedicated instruments. Till date more then 1100 students and faculties from various academic institutions and industries have been visited this center.





## FACILITIES AVAILABLE



**NMR 400 MHz**



**HPTLC**



**LC-MS-MS**



**HPLC**



**AAS**



**FTIR**



**FTIR**



**UV-Vis spectrophotometer**



**RT-PCR**



**PCR**



**Fluorescence Microscope**



**Gel Doc**



**SFE**



**Solvent Extraction**



**Tissue Culture Labs**



**Net House, Green House, Poly House**

## CONTRIBUTIONS



1. Vegetation of six districts of Chhattisgarh has been documented.
2. Autoimmune diseases of above districts was surveyed.
3. Large number of plants for curing Rheumatoid arthritis and Psoriasis has been identified.
4. 160 polyherbal formulations has been collected and analyzed.
5. About 1000 faculties and students were provided hands-on-training.
6. Accrued Rs 4.5+ Lakh as revenue.
7. About 2500 samples have been analyzed.

## FUTURE PLANS



1. Establish environmental, food, and drug adulteration analysis and research laboratories.
2. Strengthen academia-industry linkage.
3. Acquire advanced data management and analysis tools.
4. Establish partnerships for specialized training and outreach activity.
5. Intensify hands-on-training, skill oriented programs, seminars, conferences, etc.

## FOR FURTHER DETAILS



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