**DEPARTMENT OF CHEMISTRY**

**PROJECT DETAILS**

Faculty Name: [**Dr. (Mrs.) Kavita Tapadia**](https://www.nitrr.ac.in/viewdetails.php?q=chy.ktapadia)

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| **S.No.** | **Topic** | **Funding agency** | **Amount**  **(Lakhs)** | **Status** |
| 1 | Spatial Distribution of Uranium and Associated Water Quality Parameters in Groundwater / Drinking Water of Six Districts (Narayanpur, Kondagaon, Bijapur, Dantawada, Bastar, Sukma) of Chhattisgarh | Government Of India (GOI) Department Of Atomic Energy (DAE), Board of Research in Nuclear Sciences (BRNS) | 26.940 | Completed, 2018  (Co-PI) |
| 2 | Spatial Distribution of Uranium and Water Quality Parameters in Groundwater / Drinking Water of Five Districts (Bilaspur, Surajpur, Korba, Koriya & Mungeli) of Chhatishgarh | Government of India (GOI) Department of Atomic Energy (DAE), Board of Research in Nuclear Sciences (BRNS) | 20.000 | Completed, 2018  (PI) |
| 3 | Analytical Studies of Fluoride Concentration and its Removal from Groundwater of Bastar Region, India | WSSO, PHED | 18.500 | Completed, 2017 (PI)  31-03-2014 to  31-03-2017 (3y) |
| 4 | Microextraction Analysis Of Toxicants In Environmental And Biological Sample | Chhattisgarh Council of Science & Technology, Raipur (CCOST) | 1.840 | Completed, 2014  (PI) |
| 5 | Chemical And Enzymatic Modification Of Nsaid To Overcome Their Side Effect | Chhattisgarh Council of Science & Technology, Raipur (CCOST) | 2.000 | Completed, 2014  (Co-PI) |

Faculty Name [**Dr. Shyama Prasad Mahapatra**](https://www.nitrr.ac.in/viewdetails.php?q=chy.spmahapatra)

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| S.No. | Title of the Project | Funding Agency | Research Grant | Year of Sanction | Current status |
| 1 | **Support for entrepreneurial and managerial development of MSME’s through incubators, empowering lives by innovation** | **Ministry of MSME, Govt. of India**  **Scheme: idea approved under MSME incubation scheme** | **12.5 Lacs** | **2020-2023** | Completed |
| 2 | **Feasibility studies on removal of contaminants from surface and ground water** | **NMDC Limited, Hyderabad** | **66.58 Lacs** | **2018-2021** | Completed |
| 3 | **Preparation and Characterization of Microcellular Elastomer Nanocomposites for Packaging and Semi-conducting Applications** | **CCost, Raipur** | **2.0 Lacs** | **2012-2014** | Completed |

Faculty Name: [**Dr.(Mrs.) Tungabidya Maharana**](https://www.nitrr.ac.in/viewdetails.php?q=chy.tmaharana)

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| S.No. | Title of Report | Funding Agency | Financial Outlay | Year of start & Year of Completion | Name of P.I. and other investigators | Status (started or completed or in progress) |
| 1 | Synthesis and Characterizations of [O,N,N,O] Based Bulky Schiff Base Metal Complexes: Efficient Initiators for the Ring-Opening Polymerization of Lactide | CSIR | 17L | 2012 & 2015 | Dr T Maharana and Dr AK Sutar | Completed |
| 2 | Highly efficient metal initiators based on tridentate or tetradentate bulky Schiff base ligands for thering opening polymerization of lactide | UGC | 11L | 2012 & 2015 | Dr AK Sutar and Dr T Maharana | Completed |
| 3 | Synthesis and Characterizations of [O-,N,N,O] Based Bulky Schiff Base Metal Complexes and Their Catalytic Activity Towards Cyclic Carbonate Formation by Fixation of CO2 | DST | 24.5L | 2014 & 2017 | Dr T Maharana | Completed |
| 4 | Synthesis and Characterizations of Polymer Supported Based Bulky Schiff Base Metal Complexes and Their Catalytic Activity | CSIR | 22L | 2013 & 2016 | Dr AK Sutar and Dr T Maharana | Completed |
| 5 | Spatial distribution of uranium and associated water quality parameter in ground water / drinking water of five district (Bilaspur, Korba, Koriya,Mungeli & Surajpur ) | BRNS | 27 L | 2016 &2018 | Dr T Maharana and Dr K Tapadia | Completed |
| 6 | Spatial distribution of uranium and associated water quality parameter in ground water / drinking water of five district (Narayanpur,Kondagaon, Bijapur, Dantawada, Bastar, Sukma) | BRNS | 20L | 2016 &2018 | Dr T Maharana and Dr K Tapadia | Completed |
| 7 | Functionalized Porous Framework Materials for Heterogeneous Catalysis | TEQIP | 16 L | 2019 to 2020 | Dr. DINESH DE; Dr.B C SAHU; Dr. RK Sahu; Dr. T Maharana | Completed |

Faculty Name: [**Dr. Kafeel Ahmad Siddiqui**](https://www.nitrr.ac.in/viewdetails.php?q=chy.asiddiqui)

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| S.No. | Title of the Project | Funding Agency | Co-ordinators | Research Grant | Year of Sanction | Current status |
| 1 | A Supramolecular Synthon Approach for Magneto-Structural Analysis of Hydrogen Bonded Metal-Organic Coordination Network | CSIR, New Delhi India  **Scheme:** EMR-II | Dr. Kafeel Ahmad Siddiqui | 10.00 Lacs | 01/05/2018 | Completed |
| 2 | Crystal Engineering and Supramolecular Synthon Approach for Assembly of Hydrogen Bonded metal Complexes. | SERB-DST, New Delhi India  Scheme: Start-Up-Grant (Young Scientists) | Dr. Kafeel Ahmad Siddiqui | 17.88 Lacs |  | Completed on 10/09/2017; Published 06 Articles  Got Certificate from SERB in which the project was graded under **‘Very Good’** category |
| 3 | Functional Nanoporous Coordination Polymers: Design, Synthesis and Application | Seed Grant –NITRR  No: NITRR/Seed Grant/2016-17/001 | Dr. Kafeel Ahmad Siddiqui | 5.00 Lacs | 2017 | Completed (2019)  Published 08 Research Articles in International SCI Journals. |

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Faculty Name**:** [**Dr. Sagarika Bhattacharya**](https://www.nitrr.ac.in/viewdetails.php?q=chy.sbhattacharya)

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| S.No. | No & Title of the Project | Funding Agency | Research Grant | Year of Sanction |
| 1 | No: **SRG/2022/000866**    Photoluminescent lanthanide metal-ligand polymer composite for sensing and opto-electronic studies | DST-SRG | ₹32.5 lakh | 28/09/2022 |
| 2 | **NITRR/Dean(R&C)/2022/69**  Carbondots for antimicrobial resistance | Seed grant-NITRR | ₹4.75 lakh |  |