Sustainable Methodologies for Organic Synthesis and C-H Bond Functionalizations

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Proposal Approval Financial Management Account Setup Budget Allocation Project Execution Manpower Selection Progress Monitoring Regular Reports Financial Reporting Project Completion Final Settlement Asset Management Publication and Acknowledgment Compliance & Audits

Project Description:

The recent year synthetic organic chemists focusing on sustainable and greener approaches for synthetically important biologically active molecules or material molecules interest. In this respect. Catalysis (Homogeneous and heterogeneous catalysis) is placed a crucial method for constructing a wide variety C-C, C-N, C-S, C-Se, C-O, C-Te, C-B etc., which is the very useful synthetic strategy to achieve a target molecule based on the molecule interest. The main classification will be focused on green solvents, green catalysis, and green energy resources for effective organic synthesis.

- Transition Metal Catalyzed C-H bond Activation and Metal-Free C-H Oxidation methods;
 Metalla-electro Organic Synthesis;
 Metalla-photoredox Catalysis for Organic Synthesis;
 Synthesis of Organic material molecules via sustainable catalytic methods
- Products/ Instruments/ Results/ Outreach Activities



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Department of Science and Technology
(DST)

Name of the Scheme Science and Engineering Research Board (SERB)

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Duration of the Project (years) 2

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