

ANNEXURE I

Research Projects investigated/on-going

S. No	Title of the Project	Amount of Grant	Period of support
1.	CSIR-Emeritus Scientist: Novel Mixed Ligand Copper(II) Complexes of Antibacterial Drugs with Diimines: Chemical Nuclease, Protease and Anticancer Activities and Structure-Activity Relationship	Rs 27.0 Lakhs	2016-2019 Granted but not availed
2.	SERB Project: Biomimetic Diiron(III) and Bioinspired Dinickel(II) Complexes as Functional Models for Soluble Methane Monooxygenase (sMMO)	Rs 68.0 Lakhs	2016 - 2019
3.	CSIR Major Project: Metals in Medicine: Mixed Ligand Copper(II) Complexes of Diimines as Chemical Nuclease and Protease and their Anticancer activities	Rs 28.0 Lakhs	2013 - 2016
4.	DST Nano Mission Project: Targeted Intracellular Delivery of Metal-based Anticancer Drugs Using Functionalized Monolayer Protected Gold Nanoparticles (MGNPs)	Rs 1.6 Crores	2011 - 2014
5.	DST Ramanna Fellowship: 'Non-heme Iron Models' Enzymes: Studies on Structural and Functional Models	Rs 35.0 Lakhs	2010 - 2013
6.	Indo-French Major Project: 'Biological peroxide sensing: The bacterial regulator PerR, Synthetic analogues and Biomimetic Study	Rs 115.0 Lakhs	2009 - 2013
7.	DST Ramanna Fellowship: 'Dioxygen and Substrate Activation at Non-heme Iron Active Sites: Structural and Functional Models'	Rs 35.0 Lakhs	2007 - 2010
8.	CSIR Major Project - 'Interaction of Copper(II) Complexes with DNA: Study of Covalent Binding and DNA Cleavage'	Rs 10.5 Lakhs	2007 - 2010
9.	DST Major Project, New Initiative in Bioinorganic Chemistry - 'Functional Models for Non-heme Monooxygenase Enzymes'	Rs 39.0 Lakhs	2007-2010
10.	Invited Research Proposal – 'Modeling the Structure, Spectra and Reactivity of Metal Ion Sites in Certain Iron and Manganese-dependent Non-Heme Oxygenase Enzymes'	Rs 28.73 Lakhs	2004 - 2007

11.	BRNS Major Project – ‘Interaction of binuclear Ru(II) and Co(III) Complexes with DNA: Spectral and Electrochemical Studies’	Rs 12.0 Lakhs	2004 - 2008
12.	CSIR Major Project – ‘Spectral and Electrochemical Studies on DNA Binding of Ruthenium(II) and Cobalt(III) Complexes of Substituted 1,10-Phenanthrolines’	Rs 9.0 Lakhs	2001 - 2004
13.	DST Major Project – ‘Activation of Molecular Oxygen: Synthesis, Structure, Spectra and Reactivity of Models For the Iron Sites in Certain Non-Heme Oxygenase Enzymes’	Rs 15.0 Lakhs	2001 - 2004
14.	UGC Research Award - ‘DNA Binding of Ruthenium Complexes of Substituted 1,10-phenanthrolines: Will they induce B → Z Transformation in natural DNA?’	Rs 15.0 Lakhs	Sanctioned Not Aailed
15.	DST Major Project - ‘Activation of Molecular Oxygen: Synthesis, Structure, Spectra and Reactivity of Models for the Active Sites in Certain Copper Enzymes’	Rs 12.5 Lakhs	Sep 1997 - March 2001
16.	CSIR Major Project - ‘Copper and Ruthenium Complexes as Chemical Probes for DNA’	Rs 4.6 Lakhs	April 1997- Oct 2000
17.	DST Major Project - ‘Ruthenium Complexes of Novel Ligands with Thioether, Benzimidazole and Phenolic Donors: Structure, Spectra and Reactivity’	Rs 4.5 Lakhs	June 1993 - May 1996
18.	CSIR Major Project - ‘Activation of Molecular Oxygen: Synthesis, Spectra and Reactivity of Models for the iron site in Catechol Dioxygenases’	Rs 4.0 Lakhs	March 1990 - Feb 1993
19.	UGC Major Project - ‘Synthesis and study of Model Compounds for Enzyme-Copper – Nucleic Acid Interaction’	Rs 1.0 Lakh	Oct 1987 - Sep 1990
20.	DST Major Project - ‘Synthesis, Structure and Electron Transfer in Models for the Copper site of Blue Copper Proteins’	Rs 10.0 Lakhs	May 1988 - April 1991
	Total	Rs 6.0 Crores	