

## List of Research Projects (2009-2014) getting excuted at BBAU

Name of Department	Name of PI	Title of the Project	Funding Agency	Amount of Grant
<b>DST Policy Research Centre</b>				
	PI: Prof. R.C. Sobti Co-PIs: Prof. D.P. Singh (climate), Prof. R.P. Singh (Agriculture), Prof. Shubhini Saraf, Dr. Anand Prakash (Health), Dr. B.C. Yadav, Dr. Richa K. Tyagi (Energy), Dr. Venkatesh Dutta (Water)	Study of policies and mechanism that could facilitate delivery of STI output for social inclusion in Agriculture, Energy, Health, Climate and Water Sector.	DST, New Delhi	Rs. 5 crore
<b>School for Ambedkar Studies</b>				
Deptt. of Economics	Prof. N.M.P. Verma	Economic Miseries Among Social Groups	UGC , New Delhi	Rs.3,69,000/-
Dept. of Sociology	Prof Kameshvar Choudhary	Special Assistance Program (SAP) (DRS-1). (Coordinator: Prof Kameshwar Choudhary)	UGC , New Delhi	Rs. 51,00,000/-
	Dr. Manish Verma	Social, Ecological and Environmental Matrix in Rural-Urban UGC , New Delhi Interface: A Sociological Study of Peri-Urban Lucknow.	UGC , New Delhi	Rs. 6,57,200/-
	Dr. B.B. Malik	Poverty & Social Exclusion among Dalits: A Sociological Study of Varanasi (Eastern Uttar Pradesh).	UGC , New Delhi	Rs.6,81,800/-
Deptt. of Political Science	Dr. Sartik Bagh	Educational Status of Scheduled Cast in U.P.: Attainment and Challenges	Indian Council of Social Science Research, New Delhi	Rs. 53,00,000/-
<b>School for Bio-Science and Bio-Technology</b>				
Deptt. of Applied Animal Science	Dr. Abha Mishra	Identification and evaluation of reproductive traits and genetic structure of <i>Ompok bimaculatus</i> in India.	DBT, New Delhi	Rs. 17,03,000/-
		Teratogenic effects Hilban, an organic insecticide, on fresh water fish <i>Channa punctatus</i> (Bloch, 1793)	DST, New Delhi	Rs. 24,00,000/-
		Toxicological effect of Chlorpyrifos, an insecticide, on behavioral, physiological and biochemical aspect of fresh water fish <i>Channa punctatus</i> during its life span.	UP-CST, Lucknow	Rs. 8,40,000/-
	Dr. V. Elangovan	Chiropteran diversity and conservation in Uttar Pradesh.	Uttar Pradesh State Biodiversity Board, Lucknow	Rs.5,62,800/-

		Roost selection, roosting behavior and population dynamics of mouse - tailed bats ( <i>Rhinopomatidae</i> ) in Uttar Pradesh.	UGC , New Delhi	Rs.13,00,800/-
		Ultra structural and molecular characterization of guanophilic fungi of bats.	Science and Engineering Board, DST, New Delhi	Rs.12,00,000/-
Deptt. of Biotechnology	PI: Dr. Sangeeta Saxena Co-PI: Dr. G Sunil Babu	In-silico search for potential siRNA sequence to develop Gemini virus resistant papaya crop.	DBT, New Delhi	Rs. 24,82,000/-
		Developing one step multiplex PCR based diagnostic kit to detect viral disease and desired sex in juvenile papaya for improved production.	UGC, New Delhi	Rs. 10,84,339/-
	Dr. Anand Prakash	Role of Epigenetics in fear memory consolidation and extinction.	DBT, new Delhi	Rs. 63,07,012/-
		A Novel Role Of CREB and its target genes during Fear Memory Erasure leading to Extension.	DST, New Delhi	Rs. 26,20,000/-
Deptt. of Pharmaceutical Science	Dr. Sudipta Saha	Chemical investigation on anticancer bioactive substances from medicinal plants.	UGC-BSR Start-Up grant	Rs. 6,00,000/-
		Isolation, characterization and pharmacological screening of antidiabetic substances form medicinal plants.	UGC, New Delhi	Rs. 11,00,000/-
	Dr. Gaurav Kaithwas	Effect of Eicosapentanoic acid (EPA) and Docosahexanoic acid (DHA) on intestinal Mucosal Barrier Function against Methotrexate induced Toxicity in Albino Rats	UGC, New Delhi	Rs. 6,00,000/-
		Effect of $\alpha$ - Linolenic acid and $\gamma$ -Linolenic acid on Breast Cancer Risk: Evaluation of Synergistic Efficacy with an Anticancer Drug.	DST, New Delhi	Rs. 46,14,000/-
Deptt. of Applied Plant Science	Dr. Sanjay Kumar	Collection, Evaluation, Conservation and Exploitation of Underutilized Vegetables of U.P.	Uttar Pradesh Council of Agricultural Research, Lucknow	Rs.9,96,300/-
	Dr. Santanu Maji	Standardization of low cost eco-friendly drying dehydration techniques for flowers, foliages and underutilized horticulture	UGC, New Delhi	Rs. 6,00,000/-
<b>School for Environmental Science</b>				
DES	DST-FIST (2007-2011)		DST, New Delhi	Rs. 5 lakh
Deptt. of Environmental Science	Prof. Rana Pratap Singh	Entrapment of Bio-fertilizers in an organic matrix to enhance its efficacy for wheat productivity.	UP-CST, Lucknow	Rs. 5,04,000/-

	Dr. Shikha	Improvement of strain and optimization of laccase production from microbes.	UP-CST, Lucknow	Rs. 6,30,857/-
	Dr. Narendra Kumar	Impact Assessment of Dissolve Heavy Metals in Ground Water on Health and Water Quality in Industrial, Agricultural and Urban Areas of Kanpur, Uttar Pradesh.	UGC, New Delhi	Rs. 7,29,100/-
	Dr. Venkatesh Dutta	Multi-criteria spatial system for evaluating Environmental impacts of land use change in urban and peri-urban limits using remote sensing and GIS.	Space Application Center (SAC), ISRO	Rs. 10,48,000/-
		Preparation of 5 Years Action Plan for Artificial Recharge Activities and Water Conservation Schemes in Critical Block Bheetaragaon of Kanpur Nagar.	Ground Water Department, Kanpur Division, Govt. of U.P.	Rs. 90,200/-
Dept. of Environmental Microbiology		DST FIST program Sanctioned for Department (2014)	DST, New Delhi	40,00,000/-
	Prof. Ram Chandra	Metabolites characterization and detection of functional genome of melanoidin degrading enzyme involved during the decolourization of post methanated distillery effluent.	Department of Biotechnology, New Delhi, India	Rs.41,43,000/-
		Field scale demonstration of pulp paper mill effluent detoxification after secondary treatment of biostimulation and constructed wetland treatment process.	DST, New Delhi	Rs. 54,00,000/-
		Health hazards of pulp paper mill effluent detoxification after secondary treatment and characterization of Persistent Organic Pollutants and Microbial Communities.	MoEF, New delhi	Rs. 67,00,000/-
	Dr. Naveen Kumar Arora	Screening of sewage pollution in Ganga and assessment of its impact on ground water along the path of river flow in Kanpur.	UP-CST, Lucknow	Rs. 7,56,000/-
		Screening and identification of hot spots of sewage pollution containing multiple drug resistant E.coli in River Ganga at different location of Kanpur.	UGC, New Delhi	Rs. 6,83,700/-
		Designing multifaceted bioformulation technology utilizing fluorescent pseudomonas for cultivation and productivity enhancement of sunflower crop in arid and semi- arid regions infested with Macrophomina phaseolina.	CST, Lucknow	Rs. 8,50,000/-

		Revelation of mechanism and metabolites for biocontrol of deadly phytopathogens by plant growth promotory bacteria designing reliable technology for future bioformulations and sustainable agriculture.	CSIR, New Delhi	Rs. 24,00,000/-
		Developing broad spectrum biocontrol technology by utilizing and optimizing secondary metabolites from indigenous PGP Pseudomonads for controlling soil borne phytopathogens and ecofriendly agriculture.	Department of Biotechnology	Rs.17,00,000/-
	Dr. V.S. Baghel	Microbial Biodiversity and pollution Monitoring through indicator bacterial of Ganga River in Uttar Pradesh	CST UP	Rs. 9,00,000/-
	Dr. Jay Shankar Singh	PCR mediated detection of methane-oxidizing bacterial diversity from dry tropical forest soils.	UGC , New Delhi	Rs.6,00,000/-
	Dr. Ram Naresh Bhargava	Characterization of the recalcitrant organic pollutants (ROPs) and bacterial communities in tannery wastewater (TWW) after secondary treatment process and its toxicological effects in environment.	DST, New Delhi	Rs. 44,14,000/-
		Detection of persistent organic pollutants (POPs) and bacterial communities in distillery wastewater contaminated aquatic.	UGC, New Delhi	Rs. 6,00,000/-
<b>School for Home Science</b>				
Deptt. of Human Development and Family Studies	Prof.(Mrs) Sunita Mishra	Traditional locally available foods and associated Knowledge system relating to health and nutrition among adivasi women of Orissa (Kalahandi and Koraput district).	UGC , New Delhi	Rs.11,24,200/-
<b>School for Information Science and Technology</b>				
Deptt. of Information Technology	Dr. Raees Ahmad Khan	Quantifying Security in Early Stage Of Software Development Life Cycle: An Object Oriented Software Perspectives.	UGC , New Delhi	Rs.7,81,800/-

		Symptoms and Sensation due to Cellular Telephone Usage Among the Urban Rural Population of Uttar Pradesh: A Risk Assessment.	CST, UP (under Young Scientist Scheme)	Rs.6,36,000/-
		Integration, Analysis and Implementation of Prosodic & MFCC features for Automatic Speaker Recognition System using GMM.	CST, UP (under Young Scientist Scheme)	Rs.7,82,000/-
Dept. of computer Science	Dr. S.K. Dwivedi	Analysis and Design of Hindi Web Mining System for Improved Relevancy by Query	UGC, New Delhi	Rs. 8,79,800/-
	Dr. Manoj Kumar	3 D Reconstruction using Tomography & Shape from X-techniques.	UGC , New Delhi	Rs. 6,00,000/-
<b>School for Physical Sciences</b>				
Dept. of Applied Chemistry	Dr. Shailesh Kumar	Synthesis and Biological evaluation of novel 4-alkylaminoethoxy substituted indene derivatives.	S E R B, DST, New Delhi under Fast Track Scheme for Young Scientists	Rs.18,12,000/-
Dept. of Applied Physics	Dr. Bal Chandra Yadav	To design and fabricate opto-electronic humidity sensor and other materials.	UP-CST, Lucknow	Rs.5,00,000/-
		Multimetallic nanoparticles In polymer matrix as precursors of magnetic sensor materials.	DST, New Delhi INDORUSSAIN Project	Rs.26,84,000/-
		Synthesis and characterization of nanostructured metal oxides and their applications as liquefied Petroleum Gas (LPG) Sensors.	UGC, New Delhi	Rs.8,03,000/-
		Synthesis of semiconductor metaloxide based nanocomposites using Sol-Gel and Hydrothermal / solvothermal techniques for the development of humidity and CO <sub>2</sub> gas sensors.	DST, New Delhi	Rs. 22,14,000/-
		Preparation and properties of nanosized spinel and Orthoferite Oxides and their Relevance as Gas Sensor.	Board of Research Nuclear Research (BRNS)	Rs.24,74,000/-
		Synthesis and characterization of Thin and Thick Film Opto-Electronic Humidity Sensor Based on Metal Oxide Nanocomposites.	DST, New Delhi under international Financial Support (Indo-Russian)	Rs.26,84,500/-
	Dr. Devesh Kumar	Molecular Property Diagnostic Suite (MPDS): An OSDD Chemoinformatics Portal under CSIR-OSDD Project.	CSIR	Rs.5,00,000/-

	Dr. Ramesh Chandra	Calculation of reliable nuclear transmission matrix elements of neutrinoless double beta decay.	S E RB, (SERB) , DST	Rs.10,80,000/-
<b>School for Legal Studies</b>				
Dept. of Human Rights	Dr. Shashi Kumar	Caste Discrimination and Human Rights Violation Against Dalits: A Case Study of Unnao District (Uttar Pradesh).	Indian Council for Social Science Research, New Delhi	Rs. 4,00,000/-
<b>Centre for the Study of Social Exclusion and Inclusive Policies</b>				
	Dr. Prasamita Mohanty	Status and Problems of Primary Education of Muslim Minority Girls and Policy Implications-A Study in Selected Districts of Uttar Pradesh.	UGC, New Delhi	Rs. 7,47,600/-
	Shri Rudra Prasad Sahoo	Politics of Rights, Livelihood & Exclusion: A case Study of Unnao District of Uttar Pradesh.	UGC, New Delhi	Rs. 95,000/-
		Democratic Essence, Political Community Representation and Dialogic Subject: A Comparison of Western Philosophical Reflection With that of Dr. Ambedkar.	ICPR	Rs. 3,00,000/-
	Sri Bibekananda Nayak	Tribal Women's Livelihood Security through the MGNREGA: A Case Study of Kandhamal District, Odisha.	UGC, New Delhi	Rs.1,30,000/-
		Influence of NRHM on Health Status of Scheduled Cast and Scheduled Tribe Women: a Case Study in Odisha.	ICSSR	Rs. 8,00,000/-
	Dr. Sangeeta Krishna	Atrocities on Dalits in Uttar Pradesh: Nature Factor and Remedies.	UGC, New Delhi	Rs. 6,70,200/-
		Folklore, Oral Traditional and History Writing: A Case Study of Folk Songs of Marginalized Communities in India (1857-1947).	ICHR	Rs. 1,65,000/-
		Unraveling Folklore and Oral Tradition of Marginalized Communities and its Role in Democratic Social Order.	ICSSR	Rs. 5,57,925/-
			Total Grant	Rs. 15,56,88,133/-

Total Ammount Recieved : Rs. Fifteen crore fifty six lakhs eighty eight thousand one hundred thirty three