

**New Projects Sanctioned under Women Scientists Scheme–B (WOS-B) during 2019-20**

**Agriculture & Allied Sciences**

<b>Sl. No</b>	<b>Project Title</b>	<b>PI Name &amp; Institute</b>	<b>Duration (in months)</b>	<b>Total Sanctioned Cost (in ₹)</b>
1.	<b>DST/WOS-B/2018/757</b> Enhancing climate change adaptive capacity and agriculture productivity in Parambikulam Aliyar PAP basin areas through ITC and technological interventions	<b>Dr. Dhanya P</b> Tamil Nadu Agricultural University, Coimbatore Pin - 641003 <b>Tamil Nadu</b>	36	33,23,980/-
2.	<b>DST/WOS-B/2018/832</b> Farmers' participatory collection, characterization and conservation of Buniumpersicum Kala Zeera in north-western Himalaya	<b>Dr. Reetika Mahajan</b> Sher -e- Kashmir University of Agricultural Sciences and Technology, Shalimar, Srinagar <b>Jammu And Kashmir</b>	36	35,38,480/-
3.	<b>DST/WOS-B/2018/934</b> Development of Gender Sensitive Agri-Horticulture Based Extension Model for Doubling Farmers' Income and Nutritional Security	<b>Dr. Raksha</b> ICAR Central Institute for Women in Agriculture Bhubaneswar, Pin - 751003 <b>Orissa</b>	36	30,15,980/-
4.	<b>DST/WOS-B/2018/980</b> Replacement of conventional crops in fly ash contaminated agricultural fields by essential oil bearing plants for enhanced income and improved livelihood of farmers	<b>Ms. Archana Dwivedi</b> University of Lucknow Lucknow Pin-226007 <b>Uttar Pradesh</b>	36	21,70,160/-
5.	<b>DST/WOS-B/2018/1062</b> Green synthesis, characterization and evaluation of antioxidant properties of iron oxide nanoparticles	<b>Dr. Jyoti Upadhyay</b> Gautam Buddha University Yamuna Expressway, Gautam Budh Nagar, Greater Noida, <b>Uttar Pradesh</b>	36	30,52,500/-
6.	<b>DST/WOS-B/2018/1121</b> Amelioration of soil borne diseases in rice using endophytic community of wild rice of Odisha for the benefit of rice farmers	<b>Dr. Soma Samanta</b> National Rice Research Institute Cuttack <b>Orissa</b>	36	35,92,144/-
7.	<b>DST/WOS-B/2018/1150</b> Evaluation of efficacy of utilizing food waste based bokashi in selected Chennai metropolitan region hotels for land reclamation– A feasible food waste minimization option for sustainable agriculture.	<b>Ms. Saranya R</b> Anna University, Pin -600025, <b>Chennai</b> <b>Tamil Nadu</b>	24	18,15,440/-
8.	<b>DST/WOS-B/2018/1167</b> Modified Atmosphere Packaging of Sugarcane Juice in closed system	<b>Dr. Priyanka Singh</b> ICAR-Indian Institute of Sugarcane Research Lucknow Pin – 226002, <b>Uttar Pradesh</b>	36	35,00,000/-

9.	<b>DST/WOS-B/2018/1207</b> Improving the economy of Yangkhullen village, Manipur through conservation and mass propagation of Paris polyphylla	<b>Ms. Longjam Geeta Devi</b> Manipur University, Imphal West Canchipur <b>Manipur</b>	36	20,73,808/-
10.	<b>DST/WOS-B/2018/1224</b> Improving the livelihood of farmers through the uses of bio-pesticide in crop protection in Jammu region of Jammu and Kashmir.	<b>Ms. Vibha Raj Shanti</b> Sher e Kashmir University of Agricultural Sciences Technology of Jammu, Pin -180009 <b>Jammu &amp;Kashmir</b>	36	19,48,100/-
11.	<b>DST/WOS-B/2018/1225</b> Long time management of fruit flies DipteraTephritidae through mass trap techniques	<b>Ms. Naiyar Naaz</b> ICAR Research Complex for Eastern Region, Research Centre Plandu, P.O.-Rajaulatu, Namkum Ranchi, <b>Jharkhand</b>	36	17,54,525/-
12.	<b>DST/WOS-B/2018/1269</b> Development, evaluation and demonstration of biosurfactant-based fruits and vegetables sanitizer/sterilizer formulations for on-farm food safety and security of Indian farmers	<b>Dr. Debasree Kundu</b> Indian Institute of Technology Paschim Medinipur, Kharagpur Pin-721300 <b>West Bengal</b>	36	31,82,740/-
13.	<b>DST/WOS-B/2018/1272</b> Potential applications of naturally isolated bacterial strains for the production of biodegradable plastics	<b>Dr. Smitha R B</b> Malabar Botanical Garden and Institute for Plant Sciences, PB No.1, GA College Post, Kozhikode, Pin- 673014, <b>Kerala</b>	36	34,14,744/-
14.	<b>DST/WOS-B/2018/1291</b> Vulnerability Assessment of Onion Crop to Climate Change	<b>Dr. Preetmaninder Kaur Chahal</b> SIES-Indian Institute of Environment Management, Sri Chandrasekarendra Saraswati Vidyapuram, Plot 1E, Sector V, Nerul, Mumbai, Pin-400706 <b>Maharashtra</b>	36	35,91,720/-
15.	<b>DST/WOS-B/2018/1317</b> Developing a package of practice for broodstock management, breeding and marketing of different varieties of Japanese koi carp (Cyprinus carpio var koi, Linnaeus 1758) for improving economic status of rural women in Manipur.	<b>Dr. Wanglar Chimwar</b> Central Agricultural University Lamphelpat, Imphal West <b>Manipur</b>	36	33,47,184/-
16.	<b>DST/WOS-B/2018/1392</b> Additional revenue generation model for Chikballapur Sericulture farmers by producing high value silk sheets for textile and non-textile applications.	<b>Ms. Manochaya S</b> Sir M Visveswaraya Institute of Technology, via yelahanka, International airport road Bangalore, <b>Karnataka</b>	24	21,80,816/-
17.	<b>DST/WOS-B/2018/1450</b> Development of a lateral flow immunoassay strip for rapid detection of biofilm forming Staphylococcus aureus in bovine mastitis	<b>Dr. R Lakshmi</b> Rajiv Gandhi Institute of Veterinary Education and Research, Kurumba pet Pin -605009, <b>Pondicherry</b>	18	19,89,240/-

18.	<b>DST/WOS-B/2018/1509</b> Remote Sensing and GIS Application for sustainable exploitation of fishery resources	<b>Ms. Vinaya Kumari P</b> ICAR-Central Marine Fisheries Research Institute, Mangalore Research Centre, Post Box no. 244, Hoige Bazar, Pin-575001 <b>Mangalore</b>	12	8,90,520/-
19.	<b>DST/WOS-B/2018/1510</b> Spatial mapping of anthrax disease in Karnataka using GIS, Remote sensing and novel statistical models.	<b>Ms. Veena R</b> ICAR-National Institute of Veterinary Epidemiology and Disease Informatics Ramagondanahalli Yelahanka, Bengaluru, <b>Karnataka</b>	36	24,49,267/-
20.	<b>DST/WOS-B/2018/1589</b> Ecological assessment of Heavy metal contamination through wastewater irrigation in vegetable crops and its impact on human health A food chain analysis	<b>Ms. Siril Singh</b> Panjab University, Chandigarh <b>Punjab</b>	36	20,13,000/-
21.	<b>DST/WOS-B/2018/1649</b> Quality And Quantity Improvement of Rice Production by System of Rice Intensification Method, for Socio Economic development of Rural People and Ecological Security	<b>Dr. Kanta Bokariya</b> Prasanta Chandra Mahalanobis Mahavidyalaya, 111/3, B.T. Road (Bonhooghly) Pin - 700108 <b>Kolkata</b>	12	14,38,140/-
22.	<b>DST/WOS-B/2018/1707</b> Application of Microbial Enzymes Isolated from Environmental Samples for Preparation of Handmade Paper	<b>Dr. Aiman Tanveer</b> D.D.U. Gorakhpur University Gorakhpur, Pin - 273009 <b>Uttar Pradesh</b>	36	36,48,480/-
23.	<b>DST/WOS-B/2018/1708</b> Developing, designing and validating immune chromatographic test kit for the detection of selected insecticides in vegetables.	<b>Dr. Kousika</b> Tamil Nadu Agricultural University, Coimbatore, Pin - 641003 <b>Tamil Nadu</b>	36	35,38,480/-
24.	<b>DST/WOS-B/2018/1833</b> Rejuvenation and Management of Senile Apple Orchards for Sustainable Fruit Production in Himachal Pradesh	<b>Dr. Ranjana Sharma</b> DR. Y. S. Parmar University of Horticulture and Forestry Nauni Solan, Pin - 173 230, <b>Himachal Pradesh</b>	36	26,73,000/-
25.	<b>DST/WOS-B/2018/1858</b> Development of termiticidal formulation derived from extractives of termite resistant plants and their endophytes	<b>Dr. Kanika Chowdhary</b> Indian Institute of Technology-Delhi, Hauz Khas, Pin – 110016 <b>New Delhi</b>	36	32,02,416/-
26.	<b>DST/WOS-B/2018/1918</b> Nutritional and livelihood security of small farmers/farm women of Moga district through nutritional garden and off-season vegetable production	<b>Dr. Manisha Dubey</b> Punjab Agricultural University, Pau Ludhiana, Pin – 141004 <b>Punjab</b>	36	31,13,000/-
27.	<b>DST/WOS-B/2018/2015</b> “The Ganga Knowledge Model sub-systems, components and their	<b>Dr. Rashmi</b> CSRC, Punjab Engineering College, Vidya Path, Sector 12, Chandigarh-160012, <b>Chandigarh</b>	24	21,94,500/-

	interactions in the Ganga river eco-system”			
28.	<b>DST/WOS-B/2018/1144</b> Promotion of Moringa based farming system and development of value added products for livelihood security rural employment.	<b>Ms. Kamini Singh</b> Central Institute of Medicinal and Aromatic Plants P.O. CIMAP, Lucknow -226015, <b>Uttar Pradesh</b>	36	21,84,560/-
29.	<b>DST/WOS-B/2018/1311</b> “Recycling of Agricultural Residues Using Microbial Consortia for Organic Farming.”	<b>Ms. Sonal Jagannath Shinde</b> Vigyan Ashram (Indian Institute of Education) Pune, <b>Maharashtra</b>	36	27,05,200/-

### Health, Food & Nutrition

Sl. No	Project Title	PI Name & Institute	Duration (in months)	Total Cost (in ₹)
30.	<b>DST/WOS-B/2018/837</b> Application of NGS technology for development of diagnostic kit for detection of emerging and reemerging RNA virus population infecting major crops from selected ecosystems of Maharashtra	<b>Dr. Vaishali Vishnu Surve</b> ICAR - Indian Agricultural Research Institute, Regional Station - Aundh, Pune - 411067 <b>Maharashtra</b>	36	36,63,220/-
31.	<b>DST/WOS-B/2018/838</b> Sesame Oil in The Management of Oral Sub Mucous Fibrosis	<b>Dr. Parimala</b> SRM Dental College, Chennai <b>Tamil Nadu</b>	36	28,79,798/-
32.	<b>DST/WOS-B/2018/864</b> Prediction of endometrial receptivity among women undergoing IVF by endometrial transcriptional signature	<b>Dr. Suganya</b> Dr. A. L. M PG Institute of Basic Medical Sciences Chennai <b>Tamil Nadu</b>	36	37,62,220/-
33.	<b>DST/WOS-B/2018/1079</b> Design, Development, Standardization and Validation of novel range of Herbal and Nutraceutical products for better management of disease along with Evaluation of Safety and Clinical Efficacy in post-operative, post chemotherapy and post radiation patients of Breast Cervical cancer.	<b>Ms. Gayatri Pramod Ganu</b> Lokmanya Medical Research Centre, Pune <b>Maharashtra</b>	36	29,88,296/-
34.	<b>DST/WOS-B/2018/1241</b> Commercialization of a wild edible plant as health food for socio-economic upliftment of Rural Tribal Population of Nagaland	<b>Dr. Merino Visa</b> Nagaland Science and Technology Council, Kohima, <b>Nagaland</b>	36	34,02,740/-
35.	<b>DST/WOS-B/2018/1289</b> Value addition and characterization of traditional food crops of Western Himalaya for livelihood enhancement	<b>Ms. Rashim Kumari</b> Institute of Himalayan Bioresource Technology Palampur, <b>Himachal Pradesh</b>	36	22,49,055/-

36.	<b>DST/WOS-B/2018/1341</b> Development of a bacterial consortium for the biodegradation of tert-amyl methyl ether using Moving Bed Biofilm Reactor	<b>Dr. Krushi Hingurao</b> Naran Lala College of Professional and Applied Sciences Navsari <b>Gujarat</b>	36	31,86,798/-
37.	<b>DST/WOS-B/2018/1438</b> Development of Value added food recipes and measures to transfer its technology to local people of Chhattisgarh	<b>Dr. Anjali</b> Hemchand Yadav University Durg <b>Chhattisgarh</b>	36	34,07,475/-
38.	<b>DST/WOS-B/2018/1515</b> Development and validation of novel radio-tracers for detection of chemoresistance in glioma using histology and molecular markers.	<b>Ms. Riptee Thakur</b> National Institute of Mental Health and Neuro Sciences (Nimhans) Bangalore <b>Karnataka</b>	36	23,91,224/-
39.	<b>DST/WOS-B/2018/1583</b> Formulating antibiotic resistance breakers to control multidrug resistant pathogenic bacteria	<b>Ms. Ranjani</b> B.S.Abdur Rahman Crescent University, Kanchipuram, <b>Tamil Nadu</b>	36	30,34,092/-
40.	<b>DST/WOS-B/2018/1627</b> Rapid Detection of E. coli Using Surface Functionalized and modified Interdigitated Impedance-based Biosensors for Foodborne Diseases	<b>Ms. Afreen Anwar</b> Indian Institute of Technology Roorkee <b>Uttarakhand</b>	36	22,37,779/-
41.	<b>DST/WOS-B/2018/1672</b> Effectiveness of Smile, A Comprehensive Program For Parent Wellbeing In Cerebral Palsy	<b>Dr. Anu George Varghese</b> School of Behavioural Sciences Mahatma Gandhi University Kottayam <b>Kerala</b>	36	33,55,518/-
42.	<b>DST/WOS-B/2018/1720</b> Molecular characterization of Macrolide - Lincosamide-Streptogramin MLS resistance genes and its transferability in native microbial isolates of fermented foods	<b>Ms. Ashwini M</b> JSS Academy of Higher Education & Research Mysore <b>Karnataka</b>	36	23,28,116/-
43.	<b>DST/WOS-B/2018/1724</b> Development of fermentation technology for the preparation of ready to Use multi-grain Idli and Dosa batters with extended shelf life	<b>Ms. Rohini Karnat S</b> CSIR-Central Food Technological Research Institute Mysore, <b>Karnataka</b>	36	23,48,460/-
44.	<b>DST/WOS-B/2018/1770</b> Combating Antimicrobial Resistant Microbes Using Nano Microbial Based Technology - An Attempt from Lab to Land	<b>Ms. Hina Qamar</b> Aligarh Muslim University Aligarh <b>Uttar Pradesh</b>	36	22,38,016/-
45.	<b>DST/WOS-B/2018/1867</b> Early biomarkers for chemotherapy induced cardiotoxicity in patients with hematological malignancies	<b>Ms. Shalini Rawal</b> All India Institute of Medical Sciences, <b>New Delhi</b>	36	30,24,561/-
46.	<b>DST/WOS-B/2018/1920</b>	<b>Dr. Arohi Chauhan</b>	36	32,15,226/-

	Role of Yoga Therapy against Tuberculosis in people living with HIV	Smt. NHL Municipal Medical College, Ahmedabad <b>Gujarat</b>		
47.	<b>DST/WOS-B/2018/1954</b> Fabrication of colon targeted collagen-bioactive glass corona through oral delivery for bone regeneration	<b>Ms. Manjot Kaur</b> Delhi Technological University <b>Delhi</b>	36	27,45,160/-
48.	<b>DST/WOS-B/2018/2092</b> Quality Improvement of TilPitha, A Traditional Rice Product of Assam	<b>Dr. Barnali Baruah</b> Assam Agricultural University Jorhat, <b>Assam</b>	36	30,91,000/-
49.	<b>DST/WOS-B/2018/769</b> Application of constructed Wetland for treatment of secondary treated wastewater and disinfection through Inline Chlorine production and its reuse for irrigation purpose	<b>Ms. Reetika Shukla</b> Indira Gandhi National Tribal University, Amarkantak <b>Madhya Pradesh</b>	36	23,05,325/-
50	<b>DST/WOS-B/2018/775</b> Role of poly aromatic hydrocarbon (PAH) in exonal switch of cd5 gene of human T cells	<b>Ms. Smita Kumari</b> Motilal Nehru National Institute of Technology Allahabad, <b>Uttar Pradesh</b>	36	22,86,368/-
51.	<b>DST/WOS-B/2018/1022</b> Development and Efficiency evaluation of tick repellent from plant extract A scientific and social intervention on tribal health against ticks and tick born diseases in Kyasanur forest disease endemic area of Kerala	<b>Ms. Sahina S</b> Adakathullah Appa College Rahmath Nagar, Thirunelveli <b>Tamil Nadu</b>	36	18,97,808/-
52.	<b>DST/WOS-B/2018/1104</b> Synthesis of modified zeolite materials for drinking water treatment in urban areas	<b>Ms. Baseerat Ghayas</b> Baba Ghulam Shah Badshah University, Rajouri <b>Jammu &amp; Kashmir</b>	36	22,38,808/-
53.	<b>DST/WOS-B/2018/1108</b> Application of molecular based detection techniques for identification and quantification of insect fragments in spices.	<b>Ms. Aditi Negi</b> Indian Institute of Food Processing Technology Thanjavur <b>Tamil Nadu</b>	30	19,90,913/-
54.	<b>DST/WOS-B/2018/1158</b> Mindfulness Based Stress Reduction during Premenstrual Syndrome A neurobiological study.	<b>Ms. Divya Sinha</b> Sophia College For Women Bhulabhai Desai Road Mumbai, <b>Maharashtra</b>	36	20,69,430/-
55.	<b>DST/WOS-B/2018/1493</b> Optimization/adaptation of scanometric metalloimmunoassay using gold nanoparticles as an alternative diagnostic technique for the detection of lung cancer biomarkers	<b>Dr. Amsaveni</b> University of Madras Chennai <b>Tamil Nadu</b>	36	38,11,720/-
56.	<b>DST/WOS-B/2018/1512</b>	<b>Ms. Debashree Das</b>	36	26,66,007/-

	Targeting mitochondrial ROS mediated apoptosis by semi-synthetic metallo-porphyrins in anti-cancer chemotherapy and PDT	Dr. Harising Gour Vishwavidyalaya, Gour Nagar Sagar <b>Madhya Pradesh</b>		
57.	<b>DST/WOS-B/2018/1624</b> Diagnostic potential of electrical impedance analyzer for bone health detection	<b>Dr. Payal</b> Panjab University Chandigarh <b>Punjab</b>	36	32,08,480/-
58.	<b>DST/WOS-B/2018/1648</b> Effect of probiotics supplementation on nutritional status, intestinal permeability and liver disease severity in cirrhotic patients waiting for liver transplantation – a randomized, double blind, controlled trial	<b>Ms. Gokulpriya</b> Jawaharlal Institute of Postgraduate Medical Education and Research, Puducherry <b>Pondicherry</b>	36	28,08,432/-
59	<b>DST/WOS-B/2018/1900</b> Comparative impact of two packages of non pharmacological interventions on quality of life of knee osteoarthritis patients reporting at a tertiary care institution - A randomized controlled trial	<b>Dr. Meenakshi Sharma</b> Post Graduate Institute of Medical Education and Research Chandigarh <b>Punjab</b>	36	33,61,105/-
60	<b>DST/WOS-B/2018/1935</b> Designing of inhibitors for the Malate Synthase, a potential target for anti-tubercular chemotherapy	<b>Ms. Usha B E</b> University of Mysore Mysore <b>Karnataka</b>	36	26,71,590/-
61.	<b>DST/WOS-B/2018/1980</b> Development of agro waste based mycopesticide formulation for control of dengue and ZIKV vector Scientific effort for rural women empowerment	<b>Dr. Bhavana Vishwas Mohite</b> North Maharashtra University Jalgaon <b>Maharashtra</b>	36	37,38,240/-
62.	<b>DST/WOS-B/2018/2003</b> Phytochemical Mediated Biocompatible Nanoengineered Material for Wound Healing	<b>Dr. Arulpriya P</b> Bharathiar University Campus Coimbatore <b>Tamil Nadu</b>	36	34,94,480/-
63	<b>DST/WOS-B/2018/2065</b> SNP based tumour profiling and individualization of chemotherapy combinations using chemosensitivity in oral cancer	<b>Dr. Archana Pandita</b> Indian Institute of Integrative Medicine, Jammu <b>Jammu &amp; Kashmir</b>	36	34,90,344/-

### Engineering and Technology Development

Sl. No	Project Title	PI Name & Institute	Duration (in months)	Total Cost (in ₹)
64.	<b>DST/WOS-B/2018/960791</b>	<b>Ms. R Durgalakshmi</b> Vellore Institute of Technology	36	23,89,200/-

	Developing paper strip based sensing system for food spoilage - Societal application in day-to-day life.	<b>Tamil Nadu</b>		
65.	<b>DST/WOS-B/2018/1016</b> Enhancing the efficacy of an anticancer drug through cochleate drug delivery technology	<b>Ms. Priyanka Ambadas Sonar</b> Progressive Education Society's Modern College of Pharmacy- Nigdi, Pune, <b>Maharashtra</b>	36	28,66,160/-
66.	<b>DST/WOS-B/2018/1045</b> Yield Prediction and Quality Assessment of Grapes in Vineyard Using LiDAR Technology	<b>Ms. Dhanashree Kanhayalal Barbole</b> MIT-World Peace University, Pune, <b>Maharashtra</b>	36	28,93,660/-
67.	<b>DST/WOS-B/2018/1216</b> Identification of Part of Speech POS Tags for Khasi language	<b>Ms. Sunita Warjri</b> North Eastern Hill University Shillong, <b>Meghalaya</b>	36	25,13,720/-
68.	<b>DST/WOS-B/2018/2039</b> Trash to Treasure the Transformation of Waste into High-Performance Electrodes for Charge Storage Devices towards Zero-emission Transportation	<b>Ms. Divya M L</b> Indian Institute of Science Education and Research, Tirupati, <b>Andhra Pradesh</b>	36	28,32,720/-
69.	<b>DST/WOS-B/2018/2045</b> Development of a Needle-Free Diabetes Monitoring Device based on Reverse Iontophoresis technique	<b>Ms. Ashwini Ravi</b> Jyothy Institute of Technology Bangalore, <b>Karnataka</b>	36	25,36,160/-
70	<b>DST/WOS-B/2018/2104</b> Validation, Prototype development and field testing trails of MEMS based environmental sensors platform to monitor Soil moisture/ pH, Temperature and Humidity for precision agriculture	<b>Dr. Sheetal Patil</b> Indian Institute of Technology Mumbai <b>Maharashtra</b>	36	34,61,616/-
71	<b>DST/WOS-B/2018/1461</b> Develop and evaluate the performance of agrotexile products for the protection and water conservation techniques to enhance the yield of crops during extreme weather conditions in Vidarbha region	<b>Ms. Swati Changesh Chaudhari</b> Veermata Jijabai Technological Institute Mumbai, <b>Maharashtra</b>	36	29,15,660/-
72	<b>DST/WOS-B/2018/1575</b> Water, sanitation, and hygiene interventions for schools of rural areas in Rajasthan	<b>Dr. Ankita Pran Dadhich</b> Malaviya National Institute of Technology Jaipur, <b>Rajasthan</b>	36	5,71,344/-
73	<b>DST/WOS-B/2018/800</b> Synthesis and industrial application of Biodiesel Microemulsion as cleaner.	<b>Ms. Rajpreet Kaur</b> BBK DAV College for Women Amritsar, <b>Punjab</b>	36	23,56,981/-

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