

Biological Research Division

Ongoing R&D Projects

Section: Soil and Environment Section

Sl. No.	Title of the R&D projects	Name of Project Leader & Associates with designation	Duration of the Project	Budget of the Project (Taka)
01	Development of an easy to use arsenic testing kit for spot analysis of arsenic contaminated water sources.	Dr. Md Kamal Hossain, PSO (PL) Afroza Parvin, SSO Dr. Mohammad Moniruzzaman, PSO Badhan Saha, SSO Dr. Samina Ahmed, CSO	2019-2021	8.50 Lac
02	Effect of Arsenic-Selenium interaction on some food crops and its possible relevance to arsenicosis disease	Badhan Saha, SSO (PL) Dr. Mohammad Moniruzzaman, PSO Dr. Md Kamal Hossain, PSO Afroza Parvin, SSO Dipa Islam, SSO (Dr. Shahina Akter, PSO (Tissue Culture Section)	2019-2022	10.00 Lac
03	Formulation of humic acid based composite fertilizer from quality assessment of market available fertilizer	Afroza Parvin, SSO (PL) Dr. Mohammad Moniruzzaman, PSO Dr. Md Kamal Hossain, PSO Badhan Saha, SSO Afsana Parvin, SO Nasima Momtaz, RC	2019-2021	6.03 Lac

Section: Tissue Culture Section

Sl. No.	Title of the R&D projects	Name of Project Leader & Associates with designation	Duration of the Project	Budget of the Project (Taka)
01	Qualitative and quantitative determination of bioactive metabolites in field grown plants, in vitro grown plants and callus tissues obtaining from <i>Rauwolfia serpentina</i> L and <i>Bacopa monnieri</i> L.	Dr. Md. Salim Khan, PSO (PL) Dr. Md. Ahashan Habib, PSO Dr. Shahina Akter, PSO Dr. Tanjina Akhtar Banu PSO Barna Goswami, SSO Md. Hemayet Hossain, PSO (CRD)	2017-2021	5.00 Lac
02	High efficiency regeneration system of <i>Gynura procumbens</i> (Lour.) Merr. an important medicinal plant and identification of its active compounds through NMR profiling.	Dr. Tanjina Akhtar Banu, PSO (PL) Dr. Md. Salim Khan, PSO Dr. Md. Ahashan Habib, PSO Dr. Shahina Akter, PSO Barna Goswami, SSO Dr. Md. Hossain Sohrab, CSO (PSRD) Muhammad Abdullah Al-Mansur, P.S.O (INARS) Md. Hemayet Hossain, PSO (CRD)	2016-2021	5.00 Lac
03	Transfer and expression of Alpha zein gene in some fruit plants.	Dr. Shahina Akter, SSO (PL) Dr. Md. Salim Khan, PSO Dr. Md. Ahashan Habib, SSO Dr. Tanjina Akhtar Banu SSO Barna Goswami, SSO	2018-2021	2.00 Lac

Section: Plant Pathology Section

Sl. No.	Title of the R&D projects	Name of Project Leader & Associates with designation	Duration of the Project	Budget of the Project (Taka)
01	Bio-remediation of fungi responsible for infestation of finished leather	Mst. Elina Akther Zenat, SSO (PL) Natasha Nafisa Haque, RC Mst. Nadira Begum, SSO Dr. Md. Zamilur Rahman, SSO John Liton Munshi, PSO Kanish Fatema, SSO(LRI) Dr. Farhana Afroz, SSO(PSRD) Dr. Md. Abdulla-Al-Mamun, (Assistant Professor) ILET, DU	2020-2022	3.00 Lac
02	High efficiency regeneration system of <i>Gynura procumbens</i> (Lour.) Merr. an important medicinal plant and identification of its active compounds through NMR profiling.			

Section: Zoology Section

Sl. No.	Title of the R&D projects	Name of Project Leader & Associates with designation	Duration of the Project	Budget of the Project (Taka)
01	Economic importance of Insect in formation of Agar within Agar wood tree: It's identification, biology & technique developed for insect rearing.	Nahid Sultana, SSO (P. L) Md. Rakibul Hasan, SSO Shanzida Islam, SO Amena Kibria, SO	2018-2021	4.00 Lac

Fiber & Polymer Research Division Ongoing R&D Projects

Sl. No.	Title of the R&D projects	Name of Project Leader & Associates with designation	Duration of the Project	Budget of the Project (Taka)
01	Development and application of industrially important cellulose derivatives (HPMC, MC, CMC, Celluloseacetate etc.) from lignocellulosic biomass (Jute etc.)	Md. Mahbubur Rahman (PL) Zahidul Islam Muhammad Saiful Islam Swapan Kumer Ray Md. Abdullah Al Mansur Dipa Islam Dr. Toufic Ahmed Dr. M. Sarwar Jahan	2019-2022	
02	Synthesis of thermoplastic modified thermosetting polymers, composites and nanocomposites.	Shahin Sultana (PL) Lutfun Naher Hilary Zahidul Islam Md. Rashed Hasan	2017-2021	
03	Development of Polyaluminum Chloride to be used as coagulant for textile waste water treatment	Shamima Akther Eti (PL) Swapan Rumer Ray Md. Jyanal Abedin Riyadh Hossain Bhuiyan	2017-2021	
04	Production of polyvinyl chloride (PVC) solvent cement and composite materials using waste PVC and acrylic polymers	Shahin Sultana (PL) Zahidul Islam Md. Jaynal Abedin Lutfun Naher Hilary Md. Khabiruddin Sarker	2019-2022	
05	Synthesis of thermoset polyester for preparation of filler and composite materials	Shahin Sultana (PL), Dr. Mohammad Majedul Haque, Md. Jaynal Abedin, Md. Saiful Islam, Md. Khabir Uddin Sarker,	2020-2023	

06	Preparation of Polyacrylic acid (PAA) based nanocomposites for the removal of textile effluent	Shamima Akther Eti (PL) Lutfunnaheer Hilary Md. Jyanal Abedin Riyadh Hossain Bhuiyan	2020-2022	
07	Development of phosphorus based bio-polymer flame retardant for composite and plastic materials	Dr. Mohammad Majedul Haque (PL) Md. Jaynal Abedin Md. Khabir Uddin Sarker Swapan Kumer Ray	2020-2022	

Industrial Physics Division Ongoing R&D Projects

Sl. No.	Title of the R&D projects	Name of Project Leader & Associates with designation	Duration of the Project	Budget of the Project (Taka)
01	Development of eco-friendly dielectric ceramic materials for energy storage application	Suravi Islam, PSO (PL) Dr. Syed Farid Uddin Farhad, PSO Nazia Khatun, SSO Mohammad Sajjad Hossain, SSO Nazmul Islam Tanvir, RC Dr. Samia Tabassum, SSO (IFRD) Monika Mahmud, SO (IGCRT)	July 2020- June 2022	3.0 Lac
02	Fabrication of highly Transparent and conducting Substrate (TCS) of using low cost and environment friendly materials for consumer electronics.	Dr. Syed Farid Uddin Farhad, PSO (PL) Suravi Islam, PSO (PL) Nazmul Islam Tanvir, RC	July 2017- Dec 2021 (Extended)	
03	Development of magnetic material for sensor	Nazia Khatun, SSO (PL) Dr. Most Hosney Ara Begum,CSO Suravi Islam, PSO Dr. Syed Farid Uddin Farhad, PSO	July 2018- June 2021	
04	Synthesis and properties optimization of wide band gap semiconducting materials through cost effective-ease technique.	Mohammad Sajjad Hossain, SSO (PL) Dr. Syed Farid Uddin Farhad, PSO Nazmul Islam Tanvir, RC	July 2018- June 2021	2.80 Lac

Physical Instrumentation Division

Ongoing R&D Projects

Sl. No.	Title of the R&D projects	Name of Project Leader & Associates with designation	Duration of the Project	Budget of the Project (Taka)
01	Development of a multi agent based control system for fire disaster management.	KhaledunNahar Babi, SSO (PL) Md. Saidul Islam, SSO, IFRD Abu Kowsar, SSO, BTRI Md. Sadequl Islam, M. Engr. Md. Forhad Hossain, Sr. Engr, PP&PDC Mst. KamrunNahar, SSO and Dr. Samina Ahmed, CSO	2019-2022	6.00 Lac

Pulp & Paper Research Division

List of ongoing R & D Project

Sl. No.	Title of the R&D projects	Name of Project Leader & Associates with designation	Duration of the Project	Budget of the Project (Taka)
01	A low temperature fractionation of agricultural residue with zero emission	Dr. Md. Sarwar Jahan, C.S.O (PL) Dr. Md. Mostafizur Rahman, SSO Jannatun Nayeem, S.O. Razia Sultana Popy, S.O. Dr. Md Moniruzzaman, SSO Ohidul Akbar, SSO, INARS Badhon Saha, SSO	July 2018- June 2021	12.0 lakh
02	Development of Rayon grade pulp from mixture of jute stick and jute fiber.	Dr. M. Mostafizur Rahman, S.S.O (PL) JannatunNayeem, S.O. Razia Sultana Popy, S.O. Kazi Md. YasinArafat, S.O. Dr. Md. Nashir Uddin, P.S.O. Dr. M Sawar Jahan, C.S.O.	July 2020-June 2021	2.0 lakh
03	Non Conventional Production of Paper Grade Pulp from crop wastes.	Dr. M. Mostafizur Rahman, S.S.O (PL) JannatunNayeem, S. O. Razia Sultana Popy, S. O. Kazi Md. YasinArafat, S. O. Dr. Md. Nashir Uddin, P.S.O. Dr. Mohammad Moniruzaman, P.S.O. Shamim Ahmed, P.S.O. Dr. M Sawar Jahan, C. S. O.	July 2020-June 2022	3.0 lakh

Pharmaceutical Sciences Research Division

Ongoing R&D Projects

Sl. No.	Title of the R&D projects	Name of Project Leader & Associates with designation	Duration of the Project	Budget of the Project (Taka)
1.	Isolation and characterization of anti-hemolytic and urease inhibitor from <i>Tamarindus indica</i> and <i>Allium sativum</i> extracts	<ol style="list-style-type: none"> 1. Md. Najem Uddin, SO (PL) 2. Dr. Farhana Afroz, SSO 3. Dr. A.D.A. Shahinuzzaman, SSO 4. Suriya Sharmin, SSO 5. Md. Ariful Haq, SO 6. Satyajit Roy Rony, SSO 	July 2020-June 2022	3.00 Lac
2.	Development and Characterization of neutralizing antibodies against SARS-CoV-2 infection	<ol style="list-style-type: none"> a) Advisor: Muhammad Showkat Ali, Member, BCSIR b) Consultant: Prof. Dr. Abdul Mannan, Department of Endocrinology and Medicine, Anwer Khan Modern Hospital 1. Dr. A.D.A. Shahinuzzaman, SSO (PL) 2. Dr. Md. Hossain Sohrab, CSO 3. Dr. Farhana Afroz, SSO 4. Satyajit Roy Rony, SSO 5. Suriya Sharmin, SSO 6. Fatema Moni, SSO 7. Shammi Akhter, SO 8. Md. Najem Uddin, SO 9. Md. Ariful Haq, SO 	July 2020-June 2021	5.00 Lac
3.	Identification of pharmacophores in bioactive compounds isolated from medicinal plants and their endophytic fungi and structure activity relationship (SAR) study of the pharmacophores.	<ol style="list-style-type: none"> 1. Dr. Md. Hossain Sohrab, CSO (PL), 2. Dr. Farhana Afroz, SSO 3. Fatema Moni, SSO 4. Saima Mollick, SO 5. Md. Ariful Haq, SO 6. Muhammad Abdullah Al-Mansur, PSO (INARS) 	July 2019-June 2022	15.00 Lac

4.	Isolation of bulk amount of active compounds from Lawsonia alba Lam.	<ol style="list-style-type: none"> 1. Shammi Akhter, SO (PL), 2. Dr. Md. Hossain Sohrab, CSO 3. Satyajit Roy Rony, SSO 4. Suriya Sharmin, SSO 5. Md. Ariful Haq, SO 	July 2019-June 2021	6.00 Lac
5.	Identification, optimization and Characterization of different medicinal plants extract by using statistical methods and technique with instrumental data.	<ol style="list-style-type: none"> 1. Dr. Md. Anwar Hossain, PSO, (PL) 2. Dr. Md. Hossain Sohrab, CSO 3. Dr. Farhana Afroz, SSO 4. Satyajit Roy Rony, SSO 5. Shammi Akhter, SO 6. Mst. Nadira Begum, SSO (BRD) 	July 2019-June 2022	4.95 lac
6.	Development of dissolution, analytical and bioanalytical methods for estimation of Trimetazidine.	<ol style="list-style-type: none"> 1. Suriya Sharmin, SSO (PL) 2. Fatema Moni, SSO 3. Satyajit Roy Rony, SSO 4. Dr. Farhana Afroz, SSO 5. Dr. Md. Hossain Sohrab, CSO 	Project Duration: July, 2018– June, 2020 Extension Period: July, 2020 – June, 2022	2.95 lac
7.	Bioassay screening of extracts, fractions and isolated metabolites obtained from natural sources.	<ol style="list-style-type: none"> 1. Dr. Farhana Afroz, SSO (PL) 2. Dr. Md. Hossain Sohrab, CSO 3. Satyajit Roy Rony, SSO 4. Suriya Sharmin, SSO 5. Mst. Nadira Begum, SSO, (BRD) 	Project Duration: July, 2017 – June, 2020 Extension Period: July, 2020 – June, 2022	3.75 lac
8.	Isolation of bioactive metabolites from Marine Weeds and Sponges as well as their associated symbiotic Fungi.	<ol style="list-style-type: none"> 1. Dr. Md. Hossain Sohrab, CSO (PL), 2. Dr. Farhana Afroz, SSO 3. Satyajit Roy Rony, SSO 4. Fatema Moni, SSO 5. Mst. Nadira Begum, SSO, (BRD) 	Project Duration: July, 2016 – June, 2019 Extension Period: July, 2019 – June, 2021	No budget allocated for extension period

