

### 8.1.1 চলমান গবেষণা প্রকল্পের তালিকা (২০১৮-১৯)

Sl. No.	Project Title and Project Leader and duration
1	Development of dissolution, analytical and bioanalytical methods for estimation of Trimetazidine.  Suriya Sharmin, SO (PL) July 2018- June 2020
2	Production of Graphene from Graphite and Carbon  Mohammad Amirul Hoque, SSO (PL) July 2018- June 2022
3	Synthesis and property optimization of wide band gap semiconducting materials through cost effective- ease technique.  Mohammad Sajjad Hossain, SO (PL) July 2018- June 2021
4	Determination of pulp properties by Chemometric modeling with spectroscopic data.  Dr. Mohammad Nasir Uddin, SSO (PL) July 2018- June 2019
5	Economic importance of Insect in formation of Agar within Agar wood: Its identification, biology & technique development for insect rearing.  Nahid Sultana, SSO (PL) July 2018- June 2021
6	Transfer and expression of Alpha zein gene in some fruit plants.  Shahina Akter, SSO (PL) July 2018- June 2021
7	A low temperature fractionation of agricultural residue with zero emission.  Dr. Md. Sarwar Jahan, CSO (PL) July 2018- June 2021
8	The bark biorefinery of Trema orientalis: a side-stream of the pulp industry converted into leather tanning materials and bioadhesives.  Arifil Hai Quderi, PSO (PL) July 2018- June 2020

9	<p>Unique formulation of blended edible oil with enhanced antioxidant activity as well as cardiovascular protection.</p> <p>Dr. Sarmina Yeasmin, SSO (PL) July 2018-June 2021</p>
10	<p>Investigation of anticancer potential of Schiff base (Benzoin Thiosemicarbazone) complexes with Fe(II) and Cu(II)</p> <p>Md. Murshed Hasan Sarkar, SO (PL) July 2017-18</p>
11	<p>Research on Safety and Quality assessment of Artificial (extruded) Fortified Rice Kernels.</p> <p>MD. Faridul Islam, SSO (PL) July 2018-June 2021</p>
12	<p>Feasibility Study of <b>Geriatric Food Products</b> in the local market and development of nutritious foods using locally available raw materials to combat <b>Geriatric malnutrition</b>.</p> <p>Salma Ahmed, PSO (PL) July 2018-June 2021</p>
13	<p>Uninterrupted solar cooking using phase change materials.</p> <p>Md. Azizul Hoque, SO (PL) July 2018-June 2021</p>
14	<p>Design and performance analysis of safer and user friendly biogas plant suitable for Bangladesh.</p> <p>Mohammad Asadullah Asad, SO (PL) July 2018-June 2022</p>
15	<p>A new formulation for the manufacture of brake fluid</p> <p>Taposhi Rabeya, SSO (PL) January 2018-December 2018</p>
16	<p>Development of low cost ceramic tiles and bricks using ceramic waste materials of Bangladesh and characterization of the products.</p> <p>Dr. Sonjida Mustafi, SSO (PL) July 2018-June 2021</p>
17	<p>Design and development of a robotic arm.</p> <p>Rupesh Chandra Roy, Senior Principal Engineer (PL) July 2018- June 2020</p>
18	<p>Development Industrial Automation of different process equipment (e.g. Boiler) Through IOT (Internet of thing)</p> <p>Rupesh Chandra Roy, Senior Principal Engineer (PL) July 2018- June 2020</p>

19	Field Study of HAP, Al <sub>2</sub> O <sub>3</sub> , ZrO <sub>2</sub> , TCP, S/S, Ti and allied materials for Dental/Orthopedic Application. Dr. Md. Abdur Gafurf, PSO (PL) January 2018-January 2020
20	Extraction of Protein Hydrolysate from Raw trimmings of hides and skins and its application in Poultry/Fish feed  Md. Nur-E-Alam, SO (PL) July 2018-June 2020
21	Preparation of silicate paint from rice mill boiler ash.  Dr. Madhu Sudan Saha, SSO (PL) July 2018-June 2020
22	Preparation of adsorbent from waste material of Sawmill  Sharmin Sultana, SSO (PL) July 2018-June 2019
23	Process development of low cost mineral water from main river or sea water in Bangladesh and specially refine salinity for costal area's people  <b>Md. Ripaj Uddin, RC (PL)</b> July 2018-June 2021
24	Development of dissolution, analytical and bioanalytical methods for estimation of Trimetazidine.  Suriya Sharmin, SO (PL) July 2018- June 2020
25	Production of Graphene from Graphite and Carbon  Mohammad Amirul Hoque, SSO (PL) July 2018- June 2022
26	Synthesis and property optimization of wide band gap semiconducting materials through cost effective- ease technique.  Mohammad Sajjad Hossain, SO (PL) July 2018- June 2021

27	<p>Determination of pulp properties by Chemometric modeling with spectroscopic data.</p> <p>Dr. Mohammad Nasir Uddin, SSO (PL) July 2018- June 2019</p>
28	<p>Economic importance of Insect in formation of Agar within Agar wood: It's identification, biology &amp; technique development for insect rearing.</p> <p>Nahid Sultana, SSO (PL) July 2018- June 2021</p>
29	<p>Transfer and expression of Alpha zein gene in some fruit plants.</p> <p>Shahina Akter, SSO (PL) July 2018- June 2021</p>
30	<p>A low temperature fractionation of agricultural residue with zero emission.</p> <p>Dr. Md. Sarwar Jahan, CSO (PL) July 2018- June 2021</p>
31	<p>The bark biorefinery of Trema orientalis: a side-stream of the pulp industry converted into leather tanning materials and bioadhesives.</p> <p>Arifil Hai Quderi, PSO (PL) July 2018- June 2020</p>
32	<p>Unique formulation of blended edible oil with enhanced antioxidant activity as well as cardiovascular protection.</p> <p>Dr. Sarmina Yeasmin, SSO (PL) July 2018-June 2021</p>
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34	<p>Research on Safety and Quality assessment of Artificial (extruded) Fortified Rice Kernels.</p> <p>MD. Faridul Islam, SSO (PL) July 2018-June 2021</p>
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38	A new formulation for the manufacture of brake fluid  Taposhi Rabeya, SSO (PL) January 2018-December 2018
39	Development of low cost ceramic tiles and bricks using ceramic waste materials of Bangladesh and characterization of the products.  Dr. Sonjida Mustafi, SSO (PL) July 2018-June 2021
40	Design and development of a robotic arm.  Rupesh Chandra Roy, Senior Principal Engineer (PL) July 2018- June 2020
41	Development Industrial Automation of different process equipment (e.g. Boiler) Through IOT (Internet of thing)  Rupesh Chandra Roy, Senior Principal Engineer (PL) July 2018- June 2020
42	Field Study of HAP, Al <sub>2</sub> O <sub>3</sub> , ZrO <sub>2</sub> , TCP, S/S, Ti and allied materials for Dental/ Orthopedic Application.  Dr. Md. Abdur Gafurf, PSO (PL) January 2018-January2020
43	Extraction of Protein Hydrolysate from Raw trimmings of hides and skins and its application in Poultry/Fish feed  Md. Nur-E-Alam, SO (PL) July 2018-June 2020
44	Preparation of silicate paint from rice mill boiler ash.  Dr. Madhu Sudan Saha, SSO (PL) July 2018-June 2020
45	Preparation of adsorbent from waste material of Sawmill  Sharmin Sultana, SSO (PL) July 2018-June 2019
46	Process development of low cost mineral water from main river or sea water in Bangladesh and specially refine salinity for costal area's people <b>Modified title:</b> Easy process development of desalination from saline water in Bangladesh  <b>Md. Ripaj Uddin, RC (PL)</b> July 2018-June 2021

47	<p>Production of useful Laboratory Chemicals as <math>(\text{NH}_4)_2\text{C}_2\text{O}_4</math>, <math>\text{Ca}(\text{C}_2\text{H}_3\text{O}_2)_2</math> <math>\text{Na}_2\text{MoO}_4</math>, <math>\text{NH}_4\text{CH}_3\text{CO}_2</math>, <math>\text{NH}_4\text{Cl}</math>, for Research &amp; Industrial use.</p> <p><b>Dr. Pizush Kanti Biswas, PSO (PL)</b> July 2018- June 2021</p>
48	<p>Development of magnetic material for sensor.</p> <p><b>Nazia Khatun, SO (PL)</b> July 2018- June 2021</p>
49	<p>Isolation, Purification and Identification of beneficial Fungi from Rhizospheric soil of Papaya and Eggplants in around Rajshahi Metropolitan City.</p> <p><b>Dr. Arfatun Nahar Chowdhory, SSO( PL)</b> July 2018-June 2020</p>
50	<p>Development of s biofilter for aquaculture systems using beneficial microbes.</p> <p><b>Ruhul Amin, SSO (PL)</b> July 2018-June 2020</p>
51	<p>Assessment of fundamental essential enzymes activity and partial purification of different fruits , vegetables, cereals , pulse and oil seeds in the perspective of Bangladesh.</p> <p><b>Dr. Md. Mahbubar Rahman, SSO (PL)</b> July 2018-June 2020</p>
52	<p>Identification and characterization of carcinogenic Nitrosamine exposure in processed meat and meat products.</p> <p><b>Abu Tareq Mohammad Abdullah, SSO (PL)</b> July 2018-June 2020</p>
53	<p>Preparation of Metal/Metal oxide-polymer nanocomposites for applications in advanced ceramics.</p> <p><b>Dr. Shirin Akter Jahan, SSO (PL)</b> July 2018-June 2021</p>
54	<p>Pilot Plant Design and Development of a continuous Electro Coagulation (EC) System for waste water treatment (STP, ETP, LTP).</p> <p><b>Nahid Jahan, Sr Engineer (PL)</b> July 2018- June 2020</p>
55	<p>Purification of biogas for commercial usage.</p> <p><b>Ajoy Kanti Mondal, SO (PL)</b> July 2018-June 2022</p>
56	<p>A low temperature fractionation of agricultural residue with zero emission</p> <p><b>Dr. Md. Sarwar Jahan, CSO (PL)</b> July 2018- June 2020</p>
57	<p>Development of dissolution, analytical and bioanalytical methods for estimation of Trimetazidine.</p> <p><b>Suriya Sharmin, SO (PL)</b></p>

	July 2018- June 2020
58	Production of Graphene from Graphite and Carbon Mohammad Amirul Hoque, SSO (PL) July 2018- June 2022
59	Synthesis of some azo dyes from low cost petrochemicals. Mohammad Majedul Haque, SSO (PL) July 2018- June 2020
60	Synthesis and property optimization of wide band gap semiconducting materials through cost effective- ease technique. Mohammad Sajjad Hossain, SO (PL) July 2018- June 2021
61	The bark biorefinery of Trema orientalis: a side-stream of the pulp industry converted into leather tanning materials and bioadhesives Ariful Hai Quderi, PSO (PL) July 2018- June 2020
62	Determination of pulp properties by Chemometric modeling with spectroscopic data. Dr. Mohammad Nasir Uddin, SSO (PL) July 2018- June 2019
63	Economic importance of Insect in formation of Agar within Agar wood: Its identification, biology & technique development for insect rearing. Nahid Sultana, SSO (PL) July 2018- June 2021
64	Transfer and expression of Alpha zein gene in some fruit plants. Shahina Akter, SSO (PL) July 2018- June 2021
65	Unique formulation of blended edible oil with enhanced antioxidant activity as well as cardiovascular protection. Dr. Sarmina Yeasmin, SSO (PL) July 2018-June 2021
66	Investigation of anticancer potential of Schiff base (Benzoin Thiosemicarbazone) complexes with Fe(II) and Cu(II) Md. Murshed Hasan Sarkar, SO (PL) July 2017-19
67	Research on Safety and Quality assessment of extruded Fortified Rice Kernels. MD. Faridul Islam, SSO (PL) July 2018-June 2021
68	Feasibility Study of <b>Geriatric Food Products</b> in the local market and development of nutritious foods using locally available raw materials to combat <b>Geriatric malnutrition</b> .

	Salma Ahmed, PSO (PL) July 2018-June 2021
69	Uninterrupted solar cooking using phase change materials.  Md. Azizul Hoque, SO (PL) July 2018-June 2021
70	Design and performance analysis of safer and user friendly biogas plant suitable for Bangladesh.  Mohammad Asadullah Asad, SO (PL) July 2018-June 2022
71	A new formulation for the manufacture of brake fluid  Dr. Md. Abdur Rouf, CSO (PL) January 2018-December 2018
72	Field Study of HAP, Al <sub>2</sub> O <sub>3</sub> , ZrO <sub>2</sub> , TCP, S/S, Ti and allied materials for Dental/ Orthopedic Application.  Dr. Md. Abdur Gafur, PSO (PL) January 2018-January 2020
73	Development of low cost ceramic tiles and bricks using ceramic waste materials of Bangladesh .  Dr. Sonjida Mustafi, SSO (PL) July 2018-June 2021
74	Design and development of a robotic arm.  Rupesh Chandra Roy, Senior Principal Engineer (PL) July 2018- June 2020
75	Development Industrial Automation of different process equipment (e.g. Boiler) Through IOT (Internet of thing)  Rupesh Chandra Roy, Senior Principal Engineer (PL) July 2018- June 2020
76	Extraction of Protein Hydrolysate from Raw trimmings of hides and skins and its application in Poultry/Fish feed  Md. Nur-E-Alam, SO (PL) July 2018-June 2020
77	Preparation of silicate paint from rice mill boiler ash.  Dr. Madhu Sudan Saha, SSO (PL) July 2018-June 2020
78	Preparation of adsorbent from waste material of Sawmill  Sharmin Sultana, SSO (PL) July 2018-June 2019



79	Easy process development of desalination from saline water in Bangladesh <b>Md. Ripaj Uddin, RC (PL)</b> July 2018-June 2021
80	Development of dissolution, analytical and bioanalytical methods for estimation of Trimetazidine.  Suriya Sharmin, SO (PL) July 2018- June 2020
81	Production of Graphene from Graphite and Carbon  Mohammad Amirul Hoque, SSO (PL) July 2018- June 2022
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86	The bark biorefinery of <i>Trema orientalis</i> : a side-stream of the pulp industry converted into leather tanning materials and bioadhesives.  Arifiul Hai Quderi, PSO (PL) July 2018- June 2020
87	Unique formulation of edible oil blended with rice bran and other indigenous oils to enhance antioxidant activity as well as cardiovascular protection.  Dr. Sarmina Yeasmin, SSO (PL) July 2018-June 2021
88	Investigation of anticancer potential of Schiff base (Benzoin thiosemicarbazone) complexes with Fe (II) and Cu(II). Md. Murshed Hasan Sarkar, SO (PL) July 2018-June 2020
89	Protocol Development for Safety and Quality of Extruded (Fortified) Rice Kernels  MD. Faridul Islam, SSO (PL) July 2018-June 2021

90	Development and preparation of nutritious foods using locally available raw materials to combat Geriatric malnutrition.  Salma Ahmed, PSO (PL) July 2018-June 2021
91	Development of low cost ceramic tiles and bricks using ceramic waste materials of Bangladesh .  Dr. Sonjida Mustafi, SSO (PL) July 2018-June 2021
92	Design and development a prototype robotic arm for Industrial applications.  Rupesh Chandra Roy, Senior Principal Engineer (PL) July 2018- June 2020
93	Development Industrial Automation of different process equipment (e.g. Boiler) Through IOT (Internet of thing)  Rupesh Chandra Roy, Senior Principal Engineer (PL) July 2018- June 2020
94	Field Study of HAP, Al <sub>2</sub> O <sub>3</sub> , ZrO <sub>2</sub> , TCP, S/S, Ti and allied materials for Dental/ Orthopedic Application.  Dr. Md. Abdur Gafur, PSO (PL) January 2018-January2020
95	Extraction of Protein Hydrolysate from Raw trimmings of hides and skins and its application in Poultry/Fish feed  Md. Nur-E-Alam, SO (PL) July 2018-June 2020
96	Preparation of silica based primer from rice husk ash  Dr. Madhu Sudan Saha, SSO (PL) July 2018-June 2020
97	Easy process development of desalination from river water in Bangladesh.  Md. Ripaj Uddin, RC (PL) July 2018-December 2021
98	<a href="#">Green</a> route synthesis of nanomaterials and their potential uses in environment, energy and electronic industrise.  Dr. Md.Tofazzal Hossain, Scientist (PL) July 17-June20
99	Construction of low cost electrical equipment for developing Standard test method for measuring Electrical Conductivity of Liquid and solid materials.  Dr. Syed Farid Uddin Farhad, SSO (PL) July 17-June20
100	Fabrication of highly Transparent and Conducting Substrate (TCS) of using low cost and environment friendly materials for consumer electronics.  Dr. Syed Farid Uddin Farhad, SSO-PL July 17-June 20
101	<u>Cost-Benefit</u> Estimation for Alternative Rooftop Production of Spirulina in

	<p>Comparison with Traditional Production to Meet Sustainable Development Goal (SDG 2, 11, 12) &amp; Urban Small Industrialization and food Systems.</p> <p>John Liton Munshi, PSO (PL) July 17-June 20</p>
102	<p><a href="#">High</a> yielding bulb size with strong pungent aroma of <i>Allium cepa</i> L. at early harvest as influenced by plant growth regulators and organic fertilizer (Blood meal)</p> <p>Md. Abdul Matin Sarker, PSO (PL) July 17-June 20</p>
103	<p>Bioassay screening of extracts, fractions and isolated metabolites obtained from natural sources.</p> <p>Farhana Afroz, SSO (PL) July 17-June 20</p>
104	<p>Synthesis of some commonly used antiulcerants.</p> <p>Dr. Md. Hossain Sohrab, PSO (PL) July 17-June 20</p>
105	<p>Process for the production of esters and its derivatives from locally available chemicals and their bioactivity observations.</p> <p>Dr. Shahin Aziz, SSO (PL) July 17-June 20</p>
106	<p><a href="#">Synthesis</a> of novel biological active spiro and spiroketal compounds (phase-1)</p> <p>Dr. Md. Monarul Islam, SSO (PL) July 17-June 20</p>
107	<p>Effects of some selected spices and plants on cardiac enzyme markers through molecular analysis and gene expression profiling.</p> <p>Dipa Islam, SSO (PL) July' 17 – June' 20</p>
108	<p>Development of nutritive food products using gluten free raw materials.</p> <p>Dr. Kanika Mitra, SSO (PL) July' 17 – June' 20</p>
109	<p>Screening of antibiotics producing uncultured bacteria for inhabitation pathogens without detectable resistance.</p> <p>Dr. Mohammad Nazrul Islam Bhuiyan, SSO (PL) July' 17 – June' 20</p>
110	<p>Project Title: Development of Culture Technology for Insect larvae as Live Fish Feed.</p> <p>Lailatul Ferdousi, SO (PL) July,17-June,20</p>
111	<p>Analytical method development for determination of drugs in blood sample.</p> <p>Project Leader: Fatema Moni, SO July,17-June,20</p>
112	<p>Project Title: Cost effective extraction of oil from Oil palm seed, development of</p>

	<p>expelling technology and to investigate the effects of palm oil on cardiovascular system.</p> <p>Project Leader: Md. Moinuddin, PSO (PL)</p> <p>July,15-June,20</p>
113	<p>Project Title: Enhancing usable appliances and optimization with solar photovoltaic integration.</p> <p>Project Leader: Dr. Samia Tabassum, SSO</p> <p>July,16-June,20</p>
114	<p>Project Title: Evaluation &amp; study on social, environmental &amp; economic impact on the install Biogas plant under Biogas pilot plant project of BCSIR.</p> <p>Project Leader: S.M. Asaduzzaman Sujon, SSO</p> <p>July,10-June,20</p>
115	<p>Project Title: Production of Bio-lubricating oil from non-edible seeds.</p> <p>Project Leader: Sujit Kumar Banik, SO</p> <p>July,16-June,20</p>
116	<p>Uninterrupted solar cooking using phase change materials.</p> <p>Md. Azizul Hoque, SO (PL)</p> <p>July 2018-June 2021</p>
117	<p>Design and performance analysis of safer and user friendly biogas plant suitable for Bangladesh.</p> <p>Mohammad Asadullah Asad, SO (PL)</p> <p>July 2018-June 2022</p>
118	<p>Field Study of HAP, Al<sub>2</sub>O<sub>3</sub>, ZrO<sub>2</sub>, TCP, S/S, Ti and allied materials for Dental/ Orthopedic Application.</p> <p>Dr. Md. Abdur Gafur, PSO (PL)</p> <p>January 2018-January2020</p>
119	<p>Design and Development of a Weighing based Multi-head Packaging Machine for foodstuffs.</p> <p>Rupesh Chandra Roy, Director (PL)</p> <p>July 2017- June 2019</p>
120	<p>Design and Development of a drum dryer for cereals products.</p> <p>Rupesh Chandra Roy, Director (PL)</p> <p>July 2017- June 2019</p>
121	<p>Design and development of a robotic arm.</p> <p>Rupesh Chandra Roy, Senior Principal Engineer (PL)</p> <p>July 2018- June 2020</p>
122	<p>Development Industrial Automation of different process equipment (e.g. Boiler) Through IOT (Internet of thing)</p> <p>Rupesh Chandra Roy, Senior Principal Engineer (PL)</p> <p>July 2018- June 2020</p>
123	<p>Extraction of Protein Hydrolysate from Raw trimmings of hides and skins and its application in Poultry/Fish feed</p>

	Md. Nur-E-Alam, SO (PL) July 2018-June 2020
124	Preparation of silicate paint from rice mill boiler ash.  Dr. Madhu Sudan Saha, SSO (PL) July 2018-June 2020
125	Project Title: Cost effective extraction of oil from Oil palm seed, development of expelling technology and to investigate the effects of palm oil on cardiovascular system.  Md. Moinuddin, PSO (PL) July 15-June 20
126	Unique formulation of blended edible oil with enhanced antioxidant activity as well as cardiovascular protection.  Dr. Sarmina Yeasmin, SSO (PL) July 2018-June 2021
127	Development of ferromagnetic particle through chemical route  Dr. Most.. Hosney Ara Begum, PSO (PL) July, 2016-June, 2019
128	Development of smart control and monitoring system for electrical and electronic equipment using internet of things (IOT)  KaledunNahar Babi, SSO (PL) July 2016-June 2019
129	Design and Development of microcontroller based automatic voltage stabilizer.  KaledunNahar Babi, SSO (PL) July 2017-December 2019
130	Synthesis and characterization of co doped dielectric material for ceramic capacitor  Suravi Islam, PSO (PL) July 2017-December 2019

131	Synthesis and optimization of food grade vanillin and its derivatives from plants sources  Md. Jahidul Islam, SO (PL) July 2016-December 2109
132	Natural dye from the indigenous plant materials and their different application.  Md. Ahasanur Rabbi, SO (PL)
133	Development of calcium based cementitious materials from bio-resources and its application.  Farah Nigar, SO (PL) July 2017-June 2019.
134	Synthesis of cellular Light weight roof casting insulation from using thermosetting resign.  Nahid Sharmin, PSO July-2015- June 2019
135	Drug loaded multi-component bio-ceramic matrix for biological application.  Dr. Samina Ahmed, PSO (PL) July 2016- June 2019
136	Identification of uncultured fungus sp. and growth factors from mould for production of agarwood oil.  Dr. Mohammad Nazrul Islam Bhuiyan, SSO (PL) July 2016-December 2019
137	Isolation of stevioside and related compounds from two types of stevia rebaudiana (Bertoni) species from Bangladesh  Dr. Mohammad Nazrul Islam Bhuiyan, SSO (PL) July 2016-December 2019
138	Isolation of Lycopene from different fruits and vegetables and development of various value added products by using it.  Dr. Md. Zahurul Haque ,Director (PL) July 2016-June 2019
139	Development of an import substitute alloy for automobile (e.g alloy wheel etc.) applications. Md.. Arifur Rahman Khan, Engineer (PL) July 2017-June 2019

**Total- 139**