

# R&D Project Proposal

Financial Year: 2024-2025

BCSIR, Dhanmondi, Dhaka

Name of the Institute/Unit: BCSIR Dhaka Laboratories

Sl. No.	Unit Code	Title of the Project/ Name of Project Leader (PL) & Research Associates	Project Duration	Budget (Tk.)	Year wise Budget (Tk.)			Remarks/ Comments
					1 <sup>st</sup> (2024-2025)	2 <sup>nd</sup> (2025-2026)	3 <sup>rd</sup> (2026-2027)	
1	DLAB-01	<b>Spatial distribution and ecological risk assessment of trace metals in tidally active delta in Bangladesh</b>  1. Dr. Md. Kamal Hossain, PSO (PL) 2. Afsana Parvin, SSO 3. Afroza Parvin, SSO 4. Badhan Saha, SSO 5. Monzur Morshed Ahmed, CSO 6. Dr. M Moniruzzaman, PSO (CARF)	July 2024- June 2026	10.00 Lac	6.50 Lac	3.5 Lac	-	
2	DLAB-02	<b>Source apportionment and health risk assessment of emerging air pollutants in industrial areas of Dhaka</b>  1. Badhan Saha, SSO, (PL) 2. Dr. Mohammad Moniruzzaman, PSO 3. Dr. Md. Ahedul Akbor, PSO, INARS 4. Dr. Humayun Kabir, PSO, INARS 5. Dr. Md. Kamal Hossain, PSO 6. Afsana Parvin, SSO, BTRI 7. Afroza Parvin, SSO	July 2024- June 2026	2.00 Lac	1.30 Lac	0.70 Lac	-	
3	DLAB-03	<b>Production and characterization of functionalized composites from waste PVC materials</b>  1. Dr. S.M. Asaduzzaman Sujan, PSO (PL) 2. Shahin Sultana, PSO 3. Mohammad Amirul Hoque, SSO 4. Md. Khabir Uddin Sarker, SSO 5. Shabiba Parvin Shandhi, SO 6. Swpan Kumer Ray, PSO	July 2024- June 2026	2.00 Lac	1.30 Lac	0.70 Lac	-	
4	DLAB-04	<b>Formulation of safe and nutritious poultry feed using Microalgae and Macrophytes</b>  1. Dr. Nahid Sultana, SSO (PL) 2. Monzur Morshed Ahmed, CSO 3. Dr. Mahmuda Begum, SSO 4. Dr. Rakibul Islam, SSO 5. Shanzida Islam, SO 6. Dr. Md. Ahedul Akbor, PSO, INARS	July 2024- June 2026	3.00 Lac	2.20 Lac	0.80 Lac	-	
5	DLAB-05	<b>Development of effective bioinsecticide for mosquito control</b>  1. Dr. Md. Zamilur Rahman, SSO (PL) 2. Dr. Md. Ahashan Habib, PSO 3. Dr. Murshed Hasan Sarkar, SSO 4. Dr. Ruhul Amin, SSO 5. Dr. Nahid Sultana, SSO 6. Nasima Momtaz, SO	July 2024- June 2026	5.00 Lac	2.00 Lac	3.00 lac	-	

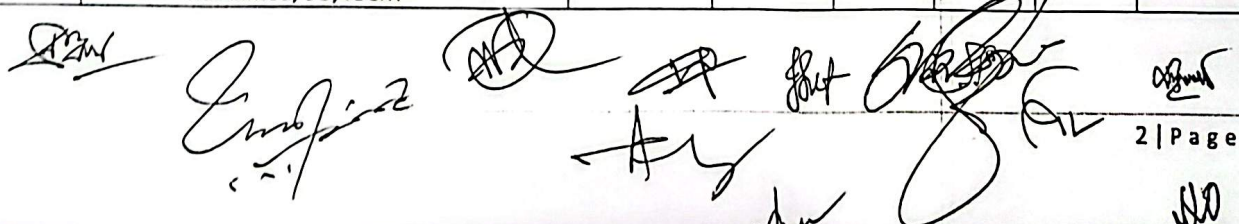


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6	DLAB-06	Preparation of activated carbon from <i>Alvizia lebbek</i> for the removal of antibiotics in wastewater 1. Shyama Prosad Moulick, SO (PL) 2. Nahid Sharmin, CSO & Director 3. Dr. Shahin Aziz, PSO 4. Md. Hemayet Hossain, PSO 5. Md. Sahadat Hossain, SO 6. Fajilatun Nesa, RC 7. S. M. Mahamudul Hasan, PSO	July 2024- June 2025	3.00 Lac	3.00 Lac	0.0 Lac	-	
7	DLAB-07	Development of Deep Eutectic Solvents (DES) based biorefinary system 1. Md. Rashed Hasan, SO (PL) 2. Swapan Kumar Ray, PSO 3. Dr. S.M. Asaduzzaman Sujon, PSO 4. Dr. Mohammad Majedul Haque, SSO	July 2024- June 2026	3.50 Lac	2.50 Lac	1.00 Lac	-	
8	DLAB-08	Formulation of Aquatic Macrophyte & Marine Seaweed based Organic Fertilizer and its comparative study on Solanaceae vegetables fertilizer 1. Natasha Nafisa Haque, SO (PL) 2. Elina Akther Zinat, SSO 3. Dr. Chapol Kumar Roy, SSO 4. Md. Hemayet Hossain, PSO, Dhaka Labs 5. Dr. M Moniruzzaman, PSO (CARF) 6. John Liton Munshi, CSO 7. Dr. Md. Rakibul Hasan, SSO, ITTI 8. Prof. Dr. Ashfaquul Alam, DU	July 2024- June 2026	7.00 Lac	5.76 Lac	1.24 Lac	-	
9	DLAB-09	Phytochemical and Bioactivity Studies on the Leaves, Stem Barks and Roots of <i>Crataeva rurvata</i> Buch.-Ham 1. S.M. Mahmudul Hassan, PSO (PL) 2. Dr. Md. Hossain Sohrab, CSO 3. Md. Hemayet Hossain, PSO, 4. Dr. Md. Monarul Islam, SSO 5. Fersoushi Jahan, SSO 6. Shammi Akhter, SSO 7. Fajilatun Nesa, RC	July 2024- June 2026	3.00 Lac	1.00 Lac	2.00 Lac	-	
10	DLAB-10	Synthesis and computational studies of Aroylhydrazinato metal complex based liquid crystals 1. Taslima Akter, SO (PL) 2. Dr. Md. Monarul Islam, SSO 3. Mohammad Mahbubur Rahman, PSO 4. Dr. Md. Nur Hossain, SSO, IFST 5. Dr. Md. Hossain Sohrab, CSO 6. Md. Farid Ahmed, SO, IGCRT	July 2024- June 2026	15.00 Lac	11.61 Lac	3.39 Lac	-	

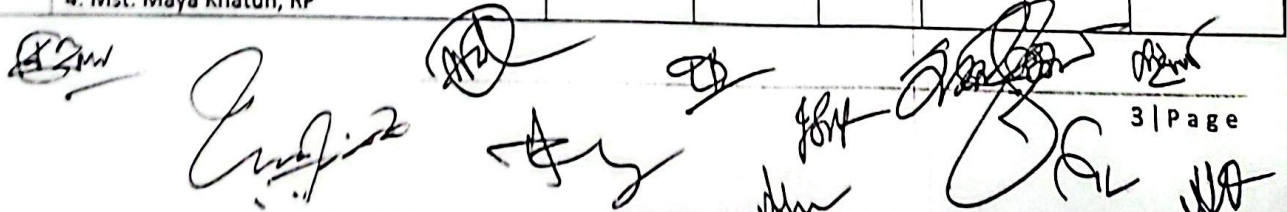


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11	DLAB-11	<b>Green Synthesis of Iron Oxide Nanoparticle for Enhanced Bioactivity Exploration and Environmental Pollution Remediation</b>  1. Asma Shafiq Shathi, SO (PL) 2. Dr. Md. Hossain Sohrab, CSO 3. Satyajit Roy Rony, SSO 4. Shammi Akhter, SSO 5. Mst. Maya Khatun, RP	July 2024- June 2026	3.00 Lac	2.00 Lac	1.00 Lac	-	
12	DLAB-12	<b>Formulation of skin care cosmetics products by using <i>Citrus sinensis</i> (orange) Peel Extract</b>  1. Md. Abdul Momen, SO (PL) 2. Ferdoushi Jahan, SSO 3. Md. Rakibul Hasan, SSO, ITTI 4. S. M. Mahamudul Hasan, PSO 5. Evana Parvin Lipy, SSO, BTRI	July 2024- June 2027	10.00 Lac	9.00 Lac	1.00 Lac	-	
13	DLAB-13	<b>Quantification and Toxicity Assessment of Heavy Metal Contamination in Traditional Medicine of Bangladesh</b>  1. Bakul Akter, RP (PL) 2. Dr. Md. Hossain Sohrab, CSO 3. Satyajit Roy Rony, SSO 4. Md. Ariful Haq, SO 5. Kutub Uddin Ahamed, RP	July 2024- June 2026	7.00 Lac	4.78 Lac	2.22 Lac	-	
14	DLAB-14	<b>Pulp and paper production from different bamboo species grown in Chittagong hill tract</b>  1. Dr. Md. Mostafizur Rahman, SSO (PL) 2. Dr. M. Sarwar Jahan, Director (PRL) 3. Dr. Mohammad Nashir Uddin, PSO 4. Md. Nur Alam Likhon, SO 5. Sharmin Islam, RC	July 2024- June 2025	8.00 Lac	8.00 Lac	-	-	
15	DLAB-15	<b>Formulation of hemorrhoid healing herbal supplements</b>  1. Dr. ADA Shahinuzzaman, SSO (PL) 2. Saima Mollick, SO 3. Najem Uddin, SO 4. Mamtaz Sultana, SO 5. Nusrat Jahan Mouri, SSO 6. Md. Zakaria Al Noman, SO 7. Md. Farhad Sarker, RP	July 2024- Dec 2026	12.00 Lac	8.50 Lac	3.50 Lac	-	
16	DLAB-16	<b>Method Development for quantification of Naproxen, Pantoprazole and Atorvasatin using low volume of biological matrix by LC-MS/MS</b>  1. Fatema Moni, SSO (PL) 2. Saima Mollick, SO 3. Najem Uddin, SO 4. Mst. Maya Khatun, RP	July 2024- June 2026	4.00 Lac	2.00 Lac	2.00 Lac	-	



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17	DLAB-17	<b>Morpho-molecular Identification and Biochemical Profiling of Endophytic Fungi Isolated from <i>Heliotropium indicum</i></b>  1. Shammi Akhter, SSO (PL) 2. Dr. Md. Hossain Sohrab, CSO 3. Satyajit Roy Rony, SSO 4. Mamtaz Sultana, SO 5. Md. Saiful Islam, SO 6. Mst. Maya Khatun, RP	July 2024- June 2026	3.50 Lac	2.00 Lac	1.50 Lac	-	
18	DLAB-18	<b>Analysis of heavy metal content and drug adulterants in commonly used topical products available in Bangladesh</b>  1. Md. Ariful Haq, SO (PL) 2. Dr. Md. Hossain Sohrab, CSO 3. Satyajit Roy Rony, SSO 4. Fatema Moni, SSO 5. Md. Najem Uddin, SO 6. Kutub Uddin Ahamed, RP 7. Bakul Akter, RP	July 2024- June 2026	6.00 Lac	4.00 Lac	2.00 Lac	-	
19	DLAB-19	<b>Production of epoxy resin from non-wood lignin</b>  1. Md. Nur Alam Likhon, SSO (PL) 2. Dr. Md. Sarwar Jahan, Director (PRL) 3. Dr. Mohammad Nashir Uddin, PSO 4. Dr. Md. Mostafizur Rahman, SSO 5. Sharmin Islam, RC	July 2024- June 2025	3.00 Lac	3.00 Lac	-	-	
20	DLAB-20	<b>Synthesis of ferrite materials for cost-effective high performance electronic devices</b>  1. Nazia Khatun, SSO (PL) 2. Suravi Islam, PSO 3. Dr. S. F. U, Forhad, PSO 4. Ayesha Siddika, SSO 5. Nazmul Islam Tanvir, SO 6. Md. Saidul Islam, SO 7. Engr. Nahid Sharmin, CSO & Director	July 2024- June 2026	5.00 Lac	3.00 Lac	2.00 Lac	-	
21	DLAB-21	<b>Isolation and Characterization of plastic degrading bacteria</b>  1. Dr. Md. Murshed Hasan Sarkar, SSO (PL) 2. Dr. Md. Ahashan Habib, PSO 3. Mustafizur Rahman Naim, SSO, BTRI 4. Zahidul Islam, SO 5. Mohammad Mohi Uddin, SO 6. Swapan Kumer Ray, PSO	July 2024- Dec 2026	7.00 Lac	4.5 Lac	2.5 Lac	-	

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22	DLAB-22	<b>Analysis of trace elements and heavy metal contamination present in herbal nutraceuticals marketed in Bangladesh</b> 1. Kutub Uddin Ahamed, RP (PL) 2. Dr. Md. Hossain Sohrab, CSO 3. Satyajit Roy Rony, SSO 4. Md. Ariful Haq, SO 5. Md. Sakhawat Hossain, SO 6. Bakul Akter, RP 7. Dr. Md. Shahidur Rahman, Dept. of Chemistry, DU	July 2024- June 2026	3.00 Lac	2.00 Lac	1.00 Lac	-	
23	DLAB-23	<b>Dynamic Adsorption of Heavy Metals from Tannery Effluents Using Renewable Resource-Based Cost-Effective Packed Column</b> 1. Swapan Kumer Ray, PSO (PL) 2. Riyadh Hossain Bhuiyan, SO 3. Dr. Shamima Akhter Eti, SSO 4. Dr. Md. Tushar Uddin, PSO 5. Dr. Mohammad Moniruzaman, PSO, CARF 6. Dr. Md. Shahriar Basher, PSO, IERD 7. Engr. Nahid Sharmin, CSO & Director	July 2024- June 2026	6.00 Lac	4.65 Lac	1.35 Lac	-	
24	DLAB-24	<b>Design and development of an IoT based intelligent air pollution monitoring and prediction system</b> 1. Khaledun Nahar Babi, SSO (PL) 2. Dr. Mohammad Moniruzzaman, PSO 3. Badhan Saha, SSO 4. Md. Sadequul Islam, Maintenance Engineer	July 2024- June 2026	15.00 Lac	4.40 Lac	10.60 Lac	-	
25	DLAB-25	<b>Computational study of MAX Phases, Perovskite compounds and Agent Based Simulation for Resource Allocation</b> 1. Khaledun Nahar Babi, PSO (PL) 2. Suravi Islam, PSO 3. Md. Sadequul Islam, Maintenance Engineer	July 2024- June 2025	9.00 Lac	9.00 Lac	-	-	
26	DLAB-26	<b>Metabolomic profiling of three medicinal plants using an integrated approach and isolation of bioactive compounds</b> 1. Md. Saiful Islam, SO (PL) 2. Dr. Md. Hossain Sohrab, CSO 3. Satyajit Roy Rony, SSO 4. Dr. A.D.A Shahinuzzaman, SSO 5. Md. Najem Uddin, SO 6. Md. Sakhawat Hossain, SO	July 2024- June 2026	7.00 Lac	5.00 Lac	2.00 lac	-	
27	DLAB-27	<b>Assessment of antibiotic susceptibility pattern of pathogens responsible for common infectious diseases</b> 1. Saima Mollick, SO (PL) 2. Dr. Md. Hossain Sohrab, CSO 3. Satyajit Roy Rony, SSO 4. Dr. A.D.A Shahinuzzaman, SSO 5. Fatema Moni, SSO, BTRI 6. Mamtaz Sultana, SO 7. Prof. Dr. Mohammed Atiqur Rahman, Pro Vice Chancellor, BSMMU	July 2024- June 2026	5.00 Lac	3.50 Lac	1.50 Lac	-	

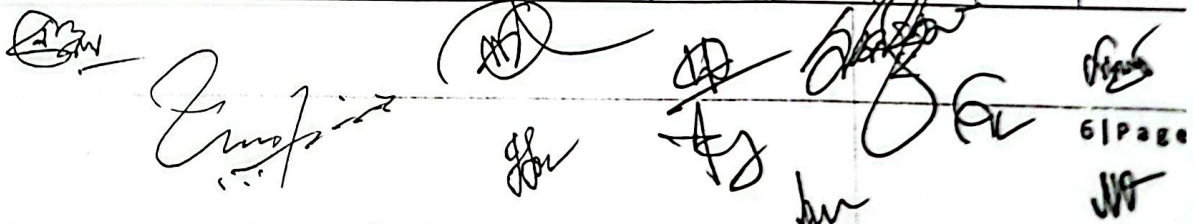


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28	DLAB-28	<b>Agrobacterium-Mediated Genetic Transformation of PspA Gene into Lactuca sativa L.</b>  1. Dr. Shahina Akter, PSO (PL) 2. Dr. Md. Ahashan Habib, PSO 3. Tanjina Akhtar Banu, PhD, PSO 4. Dr. Md. Murshed Hasan Sarkar, SSO 5. Dr. Mousona Islam, SSO 6. Barna Goswami, SSO 7. Evana Parvin Lipy, SSO, BTRI	July 2024- June 2026	2.50 Lac	2.50 Lac	-	-	
29	DLAB-29	<b>CRISPR-Cas9 mediated genome editing in Tomato</b>  1. Dr. Mousona Islam, SSO (PL) 2. Professor Dr. Rakha Hari Sarkar, Dept. of Botany, DU 3. Dr. Shahina Akter, PSO 4. Dr. Tanjina Akhtar Banu, PSO 4. Dr. Tahmina Islam, Associate Professor, Dept. of Botany, DU 5. Barna Goswami, SSO 6. Syed Mukhtadir Al Sium, SO	July 2024- June 2027	10.00 Lac	8.20 Lac	1.60 Lac	0.20	
30	DLAB-30	<b>Indentification and bioactive potential of endophytic fungi isolated from <i>Lantana camara</i> L.</b>  1. Mst. Nadira Begum, SSO (PL) 2. Mst. Elina Akther Zenat, SSO 3. Kutub Uddin Ahamed, RP 4. Md. Saiful Islam, SO 5. Dr. Md. Hossain Sohrab, CSO	July 2024- June 2026	5.00 Lac	3.20 Lac	1.80 Lac	-	
31	DLAB-31	<b>Exploring the emerging airborne pollutants and their derivatives on child health in Dhaka</b>  1. Afroza Parvin, SSO (PL) 2. Dr. M Moniruzzaman, PSO 3. Dr. Md. Kamal Hossain, PSO 4. Badhan Saha, SSO, SSO 5. Afsana Parvin, SSO 6. Razia Sultana Ankhy, SO 7. Dr. Shaikh Sharif Hasan, Icddr'b	July 2024- June 2026	6.00 Lac	5.50 Lac	0.50 Lac	-	
32	DLAB-32	<b><i>In vitro</i> regeneration and Agrobacterium-Mediated Genetic Transformation of Chill pepper (<i>Capsicum</i> spp.)</b>  1. Barna Goswami, SSO (PL) 2. Dr. Shahina Akter, PSO 3. Dr. Tanjina Akhtar Banu, PSO 4. Dr. Md. Murshed Hasan Sarkar, SSO 5. Dr. Mousona Islam, SSO 6. Mohammad Mohi Uddin, SO 7. Md. Asraful Alam, PhD, SO, BARI	July 2024- June 2026	5.00 Lac	3.10 Lac	1.90 Lac	-	

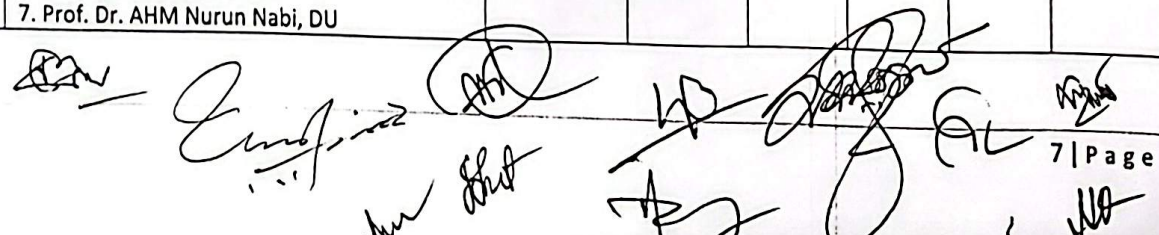


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33	DLAB-33	<b>Synthesis of Bio-adsorbent from Lignocellulosic Biomass for Waste Water</b>  1. Riyadh Hossain Bhuiyan, SO (PL) 2. Satyajit Ray Roni, SSO 3. Md. Amirul Haque, SSO 4. Dr. Shamima Akter Eti, SSO 5. Dr. Mohammad Mahbubur Rahaman, PSO 6. Swapan Kumer Ray, PSO 7. Zahidul Islam, SO	July 2024- June 2026	4.00 Lac	2.00 Lac	2.00 Lac	-	
34	DLAB-34	<b>Isolation and characterization of biopolymer producing bacteria Soil</b>  1. Showti Raheel Naser, SO (PL) 2. Dr. Md. Ahashan Habib, PSO 3. Dr. Tanjina Akhtar Banu, PSO 4. Dr. Md. Murshed Hasan Sarkar, SSO 5. Barna Goswami, SSO 6. Sanjana Fatema Chowdhury, SO	July 2024- June 2026	4.00 Lac	3.40 Lac	0.60 Lac	-	
35	DLAB-35	<b>Dengue seroprevalence and the association of infecting dengue virus serotypes with clinical manifestation</b>  1. Mamtaz Sultana, SO (PL) 2. Dr. Md. Hossain Sohrab, CSO 3. Dr. Md. Monirul Islam, Professor, University of Chittagong 4. Satyajit Roy Rony, SSO 5. Dr. A.D.A Shahinuzzaman, SSO 6. Shammi Akhter, SSO 7. Kutub Uddin Ahamed, RP	July 2024- June 2026	10.00 Lac	7.32 Lac	2.68 lac	-	
36	DLAB-36	<b>Synthesis of Non-ionic Emulsifiers from Fatty Acids and Polyhydroxy Alcohols</b>  1. Shabiba Parvin Shandhi, SO (PL) 2. Mohammad Amirul Hoque, SSO 3. Dr. Mohammad Mahbubur Rahman, PSO 4. Dr. Shamima Akther Eti, SSO 5. Trisha Paul, SO 6. Md. Sakhawat Hossain, SO	July 2024- June 2026	3.00 Lac	2.85 Lac	0.15 lac	-	
37	DLAB-37	<b>Prevalence of Inapparent Dengue Virus Infection in Bangladesh and Performance Evaluation of qRT-PCR Based Diagnosis Over Serological Methods</b>  1. Sanjana Fatema Chowdhury, SO (PL) 2. Dr. Md. Ahashan Habib, PSO 3. Dr. Tanjina Akhter Banu, PSO 4. Dr. Murshed Hasan Sarkar, SSO 5. Dr. Mousona Islam, SSO 6. Showti Raheel Naser, SO 7. Prof. Dr. AHM Nurun Nabi, DU	July 2024- June 2026	6.00 Lac	3.30 Lac	2.70 lac	-	



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38 DLAB-38	Method development and validation of two International Nonproprietary Names (INN) drugs 1. Mst. Maya Khatun, RP (PL) 2. Dr. Md. Hossain Sohrab, CSO 3. Fatema Moni, SSO, 4. Asma Shafiq Shathi, SO 5. Saima Mollick, SO	July 2024- June 2026	5.00 Lac	4.10 Lac	0.90 Lac	-	
39 DLAB-39	Synthesis of metal nanoparticles and their formulation as conductive ink for electronic device 1. Ayesha Siddika, SSO (PL) 2. Suravi Islam, PSO 3. Dr. Syed Farid Uddin Farhad, PSO 4. Nazia Khatun, SSO 5. Nazmul Islam Tanvir, SO 6. Md. Saidul Islam, SO 7. Dr. Muhammad Shahriar Basher, PSO, IERD	July 2024- June 2026	7.00 Lac	6.60 Lac	0.40 Lac	-	
40 DLAB-40	Waste Lignocellulosic Biomass-Derived Hydrogel for Slow-Release NPK Fertilizer Production 1. Swapan Kumer Ray, PSO (PL) 2. Riyadh Hossain Bhuiyan, SO 3. Badhan Saha, SSO 4. Dr. Md. Robel Hossain Patwary, SSO 5. Dr. Md. Shahriar Bashar, PSO, IERD, BCSIR 6. Dr. Samina Ahmed, CSO & Director, IGCRT 7. Engr. Nahid Sharmin, CSO & Director	July 2024- June 2025	2.00 Lac	2.00 Lac	-	-	
41 DLAB-41	Exploring the Nutritional and Chemico Biological Potential of Marine Algae for Sustainable Blue Economy 1. Safaet Alam, SO (PL) 2. Dr. Md. Hossain Sohrab, CSO 3. Md. Hemayet Hossain, PSO 4. Md. Forhad Sarker, RP 5. Khondoker Shahin Ahmed, SSO 6. Md. Sakhawat Hossain, SO	July 2024- June 2026	4.00 Lac	3.00 Lac	1.00 Lac	-	
42 DLAB-42	Development and Validation of AI Driven Disease Prediction and Detection Methods 1. Syed Muktedir Al Slum, SO (PL) 2. Dr. Md. Murshed Hasan Sarkar, SSO 3. Sanjana Fatema Chowdhury, SO	July 2024- June 2025	6.00 Lac	6.00 Lac	-	-	