

R&D Project Proposal

Financial Year: 2022-2023

BCSIR, Dhanmondi, Dhaka

Name of the Institute/Unit: BCSIR Laboratories, Dhaka

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 st (2022- 2023)	2 nd (2023- 2024)	3 rd (2024- 2025)	
01	DLAB-01	Airborne multipollutant in and around Dhaka city: source apportionment and health risk assessment Project Advisor: Professor Dr. Md. Aftab Ali Shaikh, Chairman, BCSIR 1. Dr. Mohammad Moniruzzaman, PSO (PL) 2. Md. Ahedul Akbor, SSO, INARS 3. Badhan Saha, SSO 4. Priyanka Dey Suchi, SO 5. Dr. Md. Kamal Hossain, PSO 6. Afroza Parvin, SSO 7. Afsana Parvin, SO 8. Dr. Md. Firoz Khan, Associate Prof., NSU	July 2022- June 2024	3.00 Lac	2.25 Lac	0.75 Lac		
02	DLAB-02	Effect of sodium tungstate on bioenergy production using poultry waste 1. Dr. Chapol Kumar Roy, SSO (PL) 2. Natasha Nafisa Haque, RC 3. Dr. Mahmuda Begum, SSO 4. Dr. Md. Zamilur Rahaman, SSO 5. Dr. Md. Morshas Hasan Sarker, SSO 6. Md. Ahedul Akbor, SSO, INARS	July 2022- June 2024	3.00 Lac	2.00 Lac	1.00 Lac	-	
03	DLAB-03	Genomic and Transeriptomic Analysis of Pelvi-Ureteric Junction Obstruction (PUJO) in Children with Hydronephrosis in Bangladesh 1. Showti Raheel Naser, SO (PL) 2. Dr. Md. Md. Selim Khan, CSO 3. Dr. Tanjina Akhtar Banu, PSO 4. Dr. Md. Morshas Hasan Sarker, SSO 5. Barna Goswami, SSO 6. Sanjana Fatema Chowdhury, SO 7. Prof. Dr. Mohammed Shadrul Alam, Dhaka Medical College 8. Dr. ABMM Khademul Islam, Professor, University of Dhaka	July 2022- June 2024	4.50 Lac	4.50 Lac	-		
04	DLAB-04	Isolation bioactive compounds from the leaves of <i>Heptapleurum hypoleucum</i> and assessment of their pharmacological potentiality 1. Md. Sakhawat Hossain, SO (PL) 2. Dr. Md. Hossain Sohrab, CSO 3. Satyajit Roy Rony, SSO 4. Suriya Sharmin, SSO 5. Dr. A.D.A. Shahinuzzaman, SSO 6. Fatema Moni, SSO	July 2022- June 2024	3.00 Lac	2.20 Lac	0.80 Lac	-	

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					1 st (2022- 2023)	2 nd (2023- 2024)	3 rd (2024- 2025)	
05	DLAB-05	A Metagenomic Approach to Evaluate Water and Airborne Microbiome in Dhaka City 1. Dr. Tanjina Akhtar Banu, PSO (PL) 2. Dr. Md. Selim Khan, CSO 3. Dr. Mohammad Moniruzzaman, PSO 4. Dr. Md. Morshas Hasan Sarker, SSO 5. Badhon Saha, SSO 6. Barna Goswami, SSO	July 2022- June 2024	6.00 Lac	4.50 Lac	1.50 Lac	-	
06	DLAB-06	Microplastics contamination in agricultural soil and its adjacent environment in and around Dhaka city 1. Priyanka Dey Suchi, SO (PL) 2. Dr. Mohammad Moniruzzaman, PSO 3. Badhan Saha, SSO 4. Muhammad Saiful Islam, SSO 5. Afroza Parvin, SO 6. Afsana Parvin, SSO	July 2022- June 2024	2.75 Lac	2.00 Lac	0.75 Lac		
07	DLAB-07	Development of molecular biomarker for antibiotic and heavy metal pollution in fish and their microbes 1. Dr. Mahmuda Begum, SSO (PL) 2. Dr. Mohammad Moniruzzaman, PSO 3. Dr. Nahid Sultana, SSO 4. Dr. Md. Humayun Kabir, SSO 5. Dr. Md. Morshas Hasan Sarker, SSO 6. Shanzida Islam, SO	July 2022- June 2024	7.00 Lac	4.54 Lac	2.46 Lac	-	
08	DLAB-08	Enhancement of Secondary Metabolites in <i>in vitro</i> cultures of <i>Withania somnifera</i> (L.) Dunal with Methy Jasmonate Elicitor 1. Barna Goswami, SSO (PL) 2. Dr. Md. Ahsan Habib, PSO 3. Dr. Shahina Akter, PSO 4. Dr. Tanjina Akhtar Banu, PSO 5. Dr. Md. Humayun Kabir, SSO, INARS 6. Mohammad Mohi Uddin, RC	July 2022- June 2024	3.00 Lac	2.10 Lac	0.90 Lac	-	

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09	DLAB-09	Metabolite profiling and bioassay correlation of <i>Vitex</i> sp. And <i>Persicaria</i> sp. for isolation of natural anticancer agent 1. Suriya Sharmin, SSO (PL) 2. Dr. Md. Hossain Sohrab, CSO 3. Satyajit Roy Rony, SSO 4. Dr. ADA Shahinuzzaman, SSO 5. Fatema Moni, SSO, BTRI 6. Md. Ariful Haq, SO	July 2022- June 2024	5.00 Lac	2.00 Lac	3.00 Lac	-	
10	DLAB-10	Isolation and Identification of Efflux Pump Inhibitors (EPIs) for Multi Drug Resistant Bacteria from Natural Sources 1. Satyajit Roy Rony, SSO (PL) 2. Dr. Md. Hossain Sohrab, CSO 3. Dr. ADA Shahinuzzaman, SSO 4. Suriya Sharmin, SSO 5. Fatema Moni, SSO, BTRI 6. Md. Najem Uddin, SO 7. Mst. Maya Khatun, RP	July 2022- June 2025	6.00 Lac	4.50 Lac	1.50 Lac	-	
11	DLAB-11	Perovskite Materials-based energy storage Device with 2D material as Electrodes 1. Md. Shehan Habib, SO (PL) 2. Suravi Islam, PSO 3. Dr. Syed Farid Uddin Forhad, PSO 4. Nazia Khatun, SSO 5. Nazmul Islam Tanvir, SO 6. Md. Saidul Islam, SO 7. Md. Nur Amin Bitu, RC	July 2022- June 2024	4.00 Lac	3.00 Lac	1.00 Lac	-	
12	DLAB-12	ZnO Nanorods with Plasmonic nanoparticles for low cost and high performance Optoelectronic devices 1. Nazmul Islam Tanvir, SO (PL) 2. Suravi Islam, PSO 3. Dr. Syed Farid Uddin Forhad, PSO 4. Md. Nur Amin Bitu, RC 5. Md. Shehan Habib, SO 6. Md. Saidul Islam, SO	July 2022- June 2024	1.00 Lac	0.50 Lac	0.50 Lac	-	

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					1 st (2022-2023)	2 nd (2023-2024)	3 rd (2024-2025)	
13	DLAB-13	Synthesis of magnetic nanoparticles for electrical and electronic devices 1. Nazia Khatun, SSO (PL) 2. Suravi Islam, PSO 3. Dr. Syed Farid Uddin Forhad, PSO 4. Nazmul Islam Tanvir, SO 5. Md. Shehan Habib, SO 6. Md. Saidul Islam, SO 7. Mahmuda Hakim, SSO, BTRI	July 2022- June 2024	4.00 Lac	0.25 Lac	3.75 Lac	-	
14	DLAB-14	Prediction of Air Quality using Artificial Intelligence. 1. Khaledun Nahar Babi, SSO (PL) 2. Dr. Engr. Md. Abul Kashem, CSO 3. Dr. Mohammad Moniruzzaman, PSO 4. Md. Sadequul Islam, ME	July 2022- June 2024	4.00 Lac	2.00 Lac	2.00 Lac	-	
15	DLAB-15	Evaluation of Trewia nudiflora as pulping raw material 1. Dr. M. Mostafizur Rahman, SSO (PL) 2. Dr. M Sarwar Jahan, Director 3. Jannatun Nayeem, SSO, IGCR 4. Razia Sultana Popy, SO	July 2022- June 2023	2.00 Lac	2.00 Lac	-	-	
16	DLAB-16	Integrated Biocontrol of Mosquito 1. Dr. Md. Zamilur Rahman, SSO (PL) 2. Dr. Md. Ahasan Habib, PSO 3. Dr. Nahid Sultana, SSO 4. Dr. Md. Murshed Hasan Sarkar, SSO 5. Nasim Ahmed, SO 6. Natasha Nafisa Haque, RC	July 2022- June 2024	3.00 Lac	1.90 Lac	1.10 Lac		
17	DLAB-17	Synthesis, molecular docking and DFT computational studies of diamine and pyrimidine-based Schiff-base derivatives 1. Dr. Md. Monarul Islam, SSO (PL) 2. Shyama Prosad Moulick, SSO 3. Mohammad Mahbubur Rahman, SSO 4. A.H.M. Shofiul Islam Molla Jamal, SSO, INARS, Dhaka 5. Dr. Abhijit Chowdhury, SSO, IFST 6. Dr. Dipa Islam, SSO, BTRI	July 2022- June 2024	11.121 00 Lac	8.300 50 Lac	2.820 50 Lac	-	

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					1 st (2022- 2023)	2 nd (2023- 2024)	3 rd (2024- 2025)	
18	DLAB-18	Microbial Community and Differential Gene Expression Analysis of Chronic Obstructive Pulmonary Disease (COPD) in Bangladesh 1. Sanjana Fatema Chowdhury, SO (PL) 2. Dr. Md. Md. Selim Khan, CSO 3. Dr. Shahina Akter, PSO 4. Dr. Md. Morshed Hasan Sarker, SSO 5. Showti Raheel Naser, SO 6. Prof. Dr. Mohammed Atiqur Rahman, BSMMU 7. Md. Ibrahim Miah, Assistant Professor, University of Dhaka	July 2022- June 2024	10.90 Lac	5.80 Lac	5.10 Lac		
19	DLAB-19	Fractionation of Lignocellulosic Biomass with Double Salt Ionic Liquids: A Green Method 1. Mohammad Mahbubur Rahman, SSO (PL) 2. Mahbub Alam, RC 3. Atek Reza, RC 4. Dr. Md. Monarul Islam, SSO 5. Dr. Md. Sarwar Jahan, Director	July 2022- June 2024	4.00 Lac	2.60 Lac	1.40 Lac		

(Signature)