PDS (Personal Data Sheet)

1. Name : **Dr. Shuranjan Sarkar**
2. Father's name : Bhalanath Sarkar
3. Mother's name : Nehar Sarkar
4. Husband's name (if applicable) : Not applicable
5. Gender : Male
6. Present Address : 1266/ East Monipur, Mirpur-10, Dhaka-1216
7. Permanent Address : Village- Durgapur, Police Station- Durgapur, Post Office- Durgapur, District- Rajshahi, Bangladesh.
8. Date of Birth
9. Age : 49 Years
10. Educational Qualification :

Degree/Diploma/Certificate	University/Institute/Board	Year
S.S.C	Rajshahi Board	1988
H.S.C	Rajshahi Board	1990
B.Sc.Ag/M.Sc./Equiv.	Rajshahi University	1993
M.Sc.Ag./Equiv.	Rajshahi University	1994
Ph.D.	Kyungpook National University, South Korea	2008

11. Field of Specialization: **Chemistry**

12. Training:
(a) In Country:

Sl. No.	**Organization**	**Year**	**Duration**		**Name of Programme**
			Mos	**Days**	
1.	Bangladesh Jute Research Institute, Dhaka	March, 2023	0	01	Contemporary Learning Session (4th Industrial Revolution)

2.	Bangladesh Institute of Governance and Management (BIGM) Agargaon, Dhaka- 1207	28 February-21 March 2023	0	21	Strategic Management Course
3.	Bangladesh Jute Research Institute, Dhaka	June, 2022	0	01	Office management and Skill development
4.	Bangladesh Jute Research Institute, Dhaka	November, 2021	0	01	Receipt and Settlement of Complaints
5.	Bangladesh Jute Research Institute, Dhaka	November, 2020	0	01	Income Tax Return Submission
6.	Bangladesh Jute Research Institute, Dhaka	September, 2021	0	01	e- Nothi
7.	Bangladesh Jute Research Institute, Dhaka	January, 2021	0	01	Annual performance agreement
8.	Bangladesh Jute Research Institute, Dhaka	November, 2020	0	02	Public procurement procedures (goods, works & services).
9.	Bangladesh Jute Research Institute, Dhaka	September, 2020	0	01	The Right to Information Act
10.	Bangladesh Jute Research Institute, Dhaka	December, 2019	0	02	Modern office management
11.	Bangladesh Jute Research Institute, Dhaka	November, 2019	0	01	National Integrity Strategy.
12.	Bangladesh Jute Research Institute, Dhaka	June, 2019	0	01	Jute textile product research and development.
13.	Bangladesh Jute Research Institute, Dhaka	June, 2019	0	01	Jute industrial product research and development.
14.	Bangladesh Jute Research Institute, Dhaka	May, 2019	0	02	Quality control on jute goods.
15.	Bangladesh Jute Research Institute, Dhaka	May, 2019	0	01	National Integrity Strategy.
16.	Bangladesh Academy for Rural Development, Cumilla	24 October–05 November 2018	0	13	Administrative and financial management training course

17.	Bangladesh Jute Research Institute, Dhaka	June, 2018	0	03	Research methodology.
18.	Bangladesh Jute Research Institute, Dhaka	June, 2018	0	03	Data analysis by micro-computer.
19.	Bangladesh Jute Research Institute, Dhaka	June, 2018	0	03	Agricultural project management.
20.	Bangladesh Jute Research Institute, Dhaka	June, 2018	0	03	Technical report writing and editing.
21.	National Agriculture Training Academy (NATA)	April, 2018	0	05	Innovation in public service
22.	Bangladesh Jute Research Institute, Dhaka	February, 2018	0	03	Administrative and financial management
23.	Bangladesh Agricultural Research Council, Dhaka	January, 2018	0	05	Project development and management.
24.	Bangladesh Jute Research Institute, Dhaka	June, 2017	0	03	Procurements of goods, works and services.
25.	Bangladesh Jute Research Institute, Dhaka	May, 2017	0	02	Innovation in public service
26.	Bangladesh Jute Research Institute, Dhaka	March, 2017	0	03	Training of Trainers (TOT) for the dissemination of industrial technologies on jute.
	Rajshahi University	May, 2003	1	15	MS-Office

(b) In abroad:

Organization	**Year**	**Duration**		**Name of program**
		Mos.	**Days**	

13. Experience: 18 Years 10 Months 11 Day.

Position	**Period**		
	From	**To**	**Total Year./Month**
Lecturer	01/02/1998	18/08/2003	5 years 6 months18 days
Post-Doc	29/08/2008	25/08/2015	6 years 11 months 27 days
SO			

SSO	07-09-2016	04/12/2022	6 years 2 months 29 days
PSO	05/12/2022	Till date	(including the end date 01/01/2023) 27 days

14. Publication (SO to PSO):

List of all publications, photocopies of journal publications, photocopies of first page of other publications are to be attached.

Annexure -1

(a)	**Scientific journal**	**No. of publication**
	(i) Full paper	25
	(a) Paper Published in the Reported International Journal	24
	Principal author	12
	Co-author	12
	(b) Other International & National Journal	01
	Principal Author	0
	Co-author	01
	(ii) Short Communication	-
	Principal Author	
	Co-author	
(b)	Books/Monographs/Bulletins	
	(i) Books	02
	Principal Author	0
	Co-author	02
	(ii) Monographs	-
	Principal Author	
	Co-author	
	(iii) Bulletins	-
	Principal Author	
	Co-author	
(c)	Seminar/Workshop/Symposium Proceedings	
	(i) International	18
	Principal Author	16
	Co-author	02
	(ii) National	-
	Principal Author	-
	Co-author	-

15. Research achievements (as PSO/SSO/SO) (list duly endorsed by the Head of Division and Director (Technology).

(i) No. of technology developed: 05 **Annexure -2**

(ii) No. of Research Programme: **Annexure -3**

(a)	Developed:	09
(b)	Supervised:	04
(c)	Executed:	05

16. Outstanding achievement (SO to PSO) (Duly endorsed by the Head of Division and Director (Award received Supervision of MS/Ph.D. thesis/Patent Registered):

Director's Award (BIGM 2023)
Post-Doc Fellowship (BK21, 2008-2015)
Ph.D. Scholarship (KRF, 2004)
Junior School Scholarship (Rajshahi Board 1986)
Official administrative duties
Bangladesh National assembly Local Government Election duty **Annexure – 4**
Membership of Professional Societies
Reviewer
Research paper reviewed
Researcher identity

Annexure – 1

List of Scientific Publications

(a). Scientific journal **(i) Full Paper** (a) Published in the Reported International Journal as **principal author:**	
1.	**Shuranjan Sarkar**, Zakaria Ahmed, Ferdouse Ara Dilruba, Jute Stick a Suitable Biomaterial and Economical Viable Resource for the Preparation of Microcrystalline Cellulose, World Journal of Pharmaceutical and Medical Research. 2022, 8(9), 7-13.
2.	**Shuranjan Sarkar**, Ferdouse Ara Dilruba, Mahbubur Rahman, Mubarak Hossen, Anisur Rahman Dayan, Ayesha Khatton, Jahid Sarker and Moslem Uddin, Isolation of microcrystalline alpha-cellulose from jute: A suitable and economical viable resource, GSC Biological and Pharmaceutical Sciences, 2022, 18(03), 219-225.
3.	**Shuranjan Sarkar,** Zakaria Ahmed, Jute Stick- A Suitable and Economical Source

	as Charcoal and Activated Carbon Preparation, American Journal of Polymer Science and Technology. 2022 8(1),11-15.
4.	**Shuranjan Sarkar**, Zakaria Ahmed, M. Shahadat Hossain and Md. Moslem Uddin, Charcoal preparation from jute stick: A new approach for sustainable economy GSC Advanced Research and Reviews, 2022, 10(02), 014-019.
5.	**Shuranjan Sarkar**, Kim, Minyoung, Hong-In Lee, Catecholase Activities of Copper(II) Complexes with N4 Ligands, Bull. Korean Chem. Soc. 2021,42(7),1037-1046.
6.	**Shuranjan Sarkar**, Hong-In Lee, Synthesis, structure, magnetic properties, and catecholase-like activity of a phenoxo bridged dinuclear cobalt(II) complex, Inorg. Chim. Acta, 2020 ,504, 119437.
7.	**Shuranjan Sarkar**, Arum Sim, Sunghwan Kim and Hong-In Lee, 'Catecholase Activity of a Self-Assembling Dimeric Cu(II) Complex with Distant Cu(II) Centers' J. Mol. Catal. A: Chem. 2015, 410, 149-159.
8.	**Shuranjan Sarkar**, Dohyun Moon, Seog K. Kim, Myoung Soo Lah and Hong-In Lee, 'Spontaneous Resolution Induced by a Chiral Ni(II) Complex with an Achiral Tripodal Ligand' Bull. Korean Chem. Soc. 2015, 36, 838.
9.	**Shuranjan Sarkar**, Woo Ram Lee, Chang Seop Hong and Hong-In Lee,'Tetrameric Self-Assembly of a Cu(II) Complex Containing Schiff-Base Ligand and Its Unusually High Catecholase-like Activity' Korean Chem. Soc. 2013, 34, 2731.
10.	**Shuranjan Sarkar** and Hong-In Lee, 'N,N'-(Ethane-1,2-diyldi-o-phenylene)bis(pyridine-2-carboxamide)',Acta Cryst., 2011, E67, o2988.
11.	**Shuranjan Sarkar,** Dohyun Moon, Myoung Soo Lah and Hong-In Lee, 'Structure and Heme-Independent Peroxidase Activity of Fully-Coordinated Mononuclear Mn(II) Complex with a Schiff-Base Tripodal Ligand Containing Three Imidazole Groups' Bull. Korean Chem. Soc. 2010, 31, 3173.
12.	**Shuranjan Sarkar**, Ha Jin Lee and Hong-In Lee, 'Acetato (N-[(E)-1-(6-methyl-2-pyridyl)-methylidene]-2-{2-[(E)-1-(6-methyl-2-pyridyl) methyllideneamino] phenethyl} aniline) nickel (II) perchlorate', Acta Cryst., 2010, E66, m1184.

(b) Paper Published in the Reported International Journal as **Co-author:**

1.	Taslima Rahman, Zakaria Ahmed, **Shuranjan Sarkar**, Analysis Of The Antibacterial Properties Of Jute Leaf, Open Access Research Journal of Life Sciences. 2022,4(01),51-55.
2.	Jannatul Bake Molla, **Shuranjan Sarkar**, Ferdouse Ara Dilruba, Md. Abdus Salam Khan, Md. Moshiur Rahman Enhancing the Dependence of Blended Jute Yarn Rather Than Hundred Percent Cotton Yarn, World Journal of Advanced Research and Reviews. 2022, 15(02), 205-210.
3.	Zakaria Ahmed, **Shuranjan Sarkar**, Microbial Consortium: A New Approach In Jute Retting Of Preserved Dry Ribbons, International Journal of Scientific Research Updates. 2022, 04(01), 126-137.
4.	Zakaria Ahmed and **Shuranjan Sarkar** Review on jute leaf: A powerful biological tool, International Journal of Scientific Research Updates, 2022, 04(01), 064-085
5.	Sanchita Sarkar, **Shuranjan Sarkar,** Zakaria Ahmed, Highly Promising an Anti-Cancer Drugs: Metal Complex Bearing Sulfur Chelating Ligand, A Hypothetical

	Design, Journal of Drug Delivery & Therapeutics. 2022; 12(4):60-63.
6.	Md. Masroor Anwer, Md. Abdullah Kayser, **Shuranjan Sarkar**, S M Mahruf Hossain, Sharmin Akter, Tahnin Bintay Kamal, Fatema Nusrat Jahan, Scanning Electron Microscopy Analysis of Argon, Inter. J. Eng.Appli.Sci., 2018,5(7),9-11.
7.	Md. Masroor Anwer, Md. Abdullah Kayser, **Shuranjan Sarkar**, S M Mahruf Hossain, Sharmin Akter, Tahnin Bintay Kamal, Fatema Nusrat Jahan, Fourier Transform Infrared Spectroscopic Analyses of Argon and Oxygen Plasma Treated Jute ,Inter. J. Eng.Appli.Sci., 2018,5(7),5-8.
8.	Md. Masroor Anwer, **Shuranjan Sarkar**, Md. Mahbubul Alam, S M Mahruf Hossain, Md. Mahbubul Hoque, Md. Tahzibul Haque, Khaled Saifullah, Influence of Low Temperature Argon and Oxygen Plasma Treatment on the Band-gap of Jute ,Inter. J. Eng.Appli.Sci., 2018,5,79-82.
9.	Enamul Haque, Md. Monirul Islam, Ehsan Pourazadi, **Shuranjan Sarkar**,Andrew T. Harris, Andrew I. Minett, Ekrem Yanmaz, Saad M. Alshehri,Yusuke Ide, Kevin C.-W. Wu, Yusuf Valentino Kaneti, Yusuke Yamauchi and Md. Shahriar A Hossain "Boron-Functionalized Graphene Oxide-Organic Frameworks for Highly Efficient CO2 Capture" Chem. Asian J. 2017, 12, 283-288.
10.	Enamul Haque, **Shuranjan Sarkar**, Mahbub Hassan, Md. Shahriar Hossain, Andrew I. Minett, Shi Xue Dou, Vincent G. Gomes, "Tuning graphene for energy and environmental applications: Oxygen reduction reaction and greenhouse gas mitigation", J. Power Sources . 2016, 328, 472-481.
11.	S. Hossain, M. A. Hossain, R. Islam, A. H. M. K. Alam, K. Zahan, **S. Sarkar** and M. A.Farooque "Antimicrobial and cytotoxic activities of 2-aminobenzoic acid and 2-aminophenol and their coordination complexes with Magnesium (Mg-II)", PJBS, 2004, 7, 25.
12.	M. S. Hossain, K. Zahan, M. A. Islam, **S. Sarkar**, J. Nassin, A. Islam, M. A Farooque and M. A. Alam, "In vitro Antimicrobial and in vivo Cytotoxic Activity of Three Coordination Complexes Synthesized by Mixed Ligands" PJBS, 2004, 7, 1113.
(b) Other International & National Journal as **Co-author:**	
1.	K. Zahan, M. S. Hossain, S. Sarkar, M. M. Rahman, M. A. Farooque, M. N. Karim, L. Nahar and M. A. Hossain, "Evaluation of In vitro Antimicrobial and In vivo Cytotoxic Properties of Peroxo Coordination Complexes of Mg(II), Mn(II), Fe(II) & Ni(II)" Dhaka University Journal of Pharmaceutical Sciences, 2004, 3, 1.

(b) Books/Monographs/Bulletins

Books as Co-author

1.	Zakaria Ahmed and **Shuranjan Sarkar**, Advancement In Biological Chemistry And Nanotechnological Research On Fiber Plants, Generis Publishing, 2022, ISBN; 978-1-63902-906-8. (**BOOK**)
2.	Zakaria Ahmed, **Shuranjan Sarkar** and Taslima Rahman, 2021, Challenges and Advances in Chemical Science Vol. 7 Study on Biochemical Preparation of Natural and Rare Carbohydrate (Pentoses) , Chapter 1, DOI: 10.9734/bpi/cacs/v7/2135C

(c) Seminar/Workshop/Symposium Proceedings

(i) International as Principal author:

1.	**Shuranjan Sarkar** and Hong-In Lee, Peptide Unit Based Dinuclear Copper Complex as a Model of Catechol Oxidase: Synthesis, Kinetics and Mechanism, The 114th National meeting of the Korean Chemical Society, Changwon, Korea (October 15-17, 2014).
2.	**Shuranjan Sarkar** and Hong-In Lee, "Novel Deprotonated-Pyridyldicarboxamide Copper Complex as a Calechol Oxidase Model System: Kinetics and Mechanism" The 112th National meeting of the Korean Chemical Society, Changwon, Korea (October 16-18, 2013).
3.	**Shuranjan Sarkar** and Hong-In Lee, Catecholase Activity of a Non-coupled Dinuclear Copper Carboxamide Complex, The 111h National Meeting of the Korean Chemical Society, Kintex, Korea (April 17-19, 2013).
4.	**Shuranjan Sarkar** Sung hwan Kim, Hay Jin Lee and Hong-In Lee, Tetrameric supramolecular assembly of a Cu(II) complex containing Schiff base and its catecholase activity investigated by electron paramagnetic resonance, Euromar Dublin, Ireland, (July 1-5, 2012).
5.	**Shuranjan Sarkar**, Yoo Jeong Kim, Hong In Lee, Unusual Catalytic Activity of a Copper Complex Containing Bromo-Substituted Pyridyl Schiff-Base Ligand in Oxidation of Phenolic Substrates The 110th National meeting of the Korean Chemical Society, Busan, Korea (October 17-19, 2012).
6.	**Shuranjan Sarkar** and Hong-In Lee, "Syntheses, Characterizations, Catalysis and Representative X-Ray Structures of Some Copper Complexes with Schiff-Base Ligands" The 109th Spring Meeting of the Korean Chemical Society, KINTEX, Seoul, (April 25-27, 2012).
7.	**Shuranjan Sarkar,** Chang-Seop Hong, Myoung Soo Lah, and Hong-In Lee, Syntheses, Crystal Structures and Spectroscopic Properties of Some Metal Complexes with Polyamine Ligand, The 105th National Meeting of the Korean Chemical Society, Incheon, Korea (April 29-30, 2010).
8.	**Shuranjan Sarkar**, Hong-In Lee, Chang-Seop Hong, Jung-Hee Yoon, and Myoung Soo Lah, Synthesis, Characterization, Crystal Structures, and Spectroscopic Properties of Some Transition Metal Complexes Containing Novel Schiff-Base Ligands, The 104th National Meeting of the Korean Chemical Society, Daejun, Korea (October 28-30, 2009).
9.	**Shuranjan Sarkar,** Hong-In Lee, Chang-Seop Hong, and Jung-Hee Yoon, Synthesis, Structure, Catecholase Activity, and Azide Binding of A Series of Phenyl-Based Cu(II) Complexes, The 104th National Meeting of the Korean Chemical Society, Daejun, Korea (October 28-30, 2009).
10.	**Shuranjan Sarkar**, Chang-Seop Hong and Hong-In Lee, Syntheses, Characterizations, and Catecholase Activities of Some Mono and Tetranuclear Copper Complexes, 14th International Conference on Biological Inorganic Chemistry, Nagoya, Japan (July 25-30, 2009).
11.	**Shuranjan Sarkar**, Jeong-Hee Yun, Chamh-Seop Hong and Hong-In Lee "Syntheses and Spectroscopic Studies of Mono and Tetra Nuclear Copper Complexes: Models for Catechol Oxidase" The 103rd Spring Meeting of the Korean Chemical Society, Coex, Seoul (April 16-17, 2009).
12.	**Shuranjan Sarkar**, Myoung Soo Lah and Hong-In Lee, "Synthesis, Crystal

	Structure, and Properties of New Manganese(II) Complex with Tripodal Polyamine Ligand Bearing Imidazolyl Donor Pendants" The 103rd Spring Meeting of the Korean Chemical Society, Coex, Seoul (April 16-17, 2009).
13.	**Shuranjan Sarkar** and Hong-In Lee, "Synthesis, Characterization, and Catalytic Activities of Transition Metal Complexes with Imidazoyl Tripodal Ligand" The 100th National Meeting of the Korean Chemical Society, Daegu, Korea (October 18-19, 2007).
14.	**Shuranjan Sarkar** and Hong-In Lee, "Synthesis, Characterization, and Catechol Oxidation Studies of Copper Mono and Dinuclear Complexes" The 100th National Meeting of the Korean Chemical Society, Daegu, Korea (October 18-19, 2007).
15.	**Shuranjan Sarkar**, Jang-Hoon Cho, Byung-Do Park, Myeong-Sun Son, Su-Youn Kwon, Min-Ji Shin and Hong-In Lee, "Synthesis, Characterization, and Biological Activities of Metal Complexes Containing Tripodal Hexadentate Ligand, Imtren [Imtren = Tris(2-(4-imidazolyl) methyliminoethyl)amine], 13th International Conference on Biological Inorganic Chemistry, Vienna, Austria (July 15-20, 2007).
16.	**Shuranjan Sarkar**, Myung Soo Lah and Hong-In Lee, "Synthesis, Characterization, and X-Ray Diffraction Studies of Chiral Ni(II) and Mn(II) Complexes with a Tripodal Ligand, (Tris(2-(4-imidazoyl)methyl imimnoethyl)amine" The 99th National Meeting of the Korean Chemical Society, Seoul, Korea (April 19-20, 2007).

International as Co-author

1.	Kim Dong-hoon, **Shuranjan Sarkar**, Lee Hong-in Syntheses and Characterization of Fe, Ni, Ru Complexes Containing N,N'-(ethylenedi-p-phenylene)bis(pyridine-2-carboxamide) Ligand, The 106th National meeting of the Korean Chemical Society, EXCO, Daegu, Korea (October 14-15, 2010).
2.	Su-Yeon Sim, **Shuranjan Sarkar**, Myoung Soo Lah, and Hong-In Lee, Synthesis, Crystal Structure, and Peroxides-Like Activity of A Novel Manganese Complex: Mn(II)imtren [imtren = Tris {(2-(4-imidazolyl) methyliminoethyl)amine)}], 14th International Conference on Biological Inorganic Chemistry, Nagoya, Japan (July,25-30, 2009).

Annexure - 2

Technology Developed

SL No.	Name of Technology	Remarks	Author	References
01.	Charcoal	An investigation had been done to produce quality charcoal at different temperature ranges. A proximate analysis had been carried out to determine the percentage of moisture, volatile matter, ash, and fixed carbon in charcoal by standard methods. Jute sticks were	S. Sarkar *et.al.*	*GSC Adv. Res. Rev.,* **2022,** 10(02), 14-19

		carbonized at a range of 250oC to 750oC in an electric muffle furnace. Thermogravimetric analysis revealed that thermal decomposition of the analyzed charcoal occurred in three main phases where the weight loss was 75% and the rest 1% of inorganic materials become ash.		
02.	Activated Carbon	The activated carbon will be beneficial in variety of applications such as food and beverage processing, snow avalanche control, municipal drinking water, industrial pollution control, radio wave capture methane solvent recovery, odor remover, metal purification, sewage treatment. The physicochemical changes were done of charcoal by the chemical activation with $CaCl_2$ and the properties of the final materials obtained after pyrolyzing at 700ºC which can be a suitable approach.	S. Sarkar *et.al*.	*Am. J. Poly. Sci. Technol.* **2022**, 8(1), 11-15.
03.	MCC from Robi-1 (Tossa pat-8)	Cellulose is a natural linear chain homopolymer that is an abundant and common component in all plants. Partially pure depolymerized cellulose, known as microcrystalline cellulose (MCC), is synthesized by mineral acids hydrolysis from α-cellulose precursors obtained from fibrous plants such as jute. Virgin soft and hardwoods are used as the main source of cellulose for raw materials of MCC production. These can be replaced by jute fiber to a great extent as it is considered one of the most promising alternatives.	S. Sarkar *et.al.*	*GSC Biol. Pharm.Sci.,* **2022,** 18(03), 219-225 **And** *The 100 Agro Technology Atlas*,2021 No.51, 97
04.	MCC from Tossa Stick	The main source of raw material for microcrystalline cellulose production is virgin soft or hardwood, but jute sticks are quite useful as an alternative source. The cellulose, hemicelluloses, lignin, moisture, and ash percentages of jute stick have been determined by standard methods. Jute sticks microcrystalline cellulose can be nicely applicable in various fields such as coatings, food, pharmaceuticals, adhesives, cosmetics, membranes, films, explosives, tobacco, and the textiles industry.	S. Sarkar *et.al.*	World Journal of Pharmaceutical and Medical Research. 2022, 8(9), 7-13

05.	Blended Yarn by Jute, Cotton and Viscose	The diversified use of jute is one way to blend yarn. Blending is a mixing process where two or more different fibers are combined into the desired percentage. In this study, viscose was first introduced for the blending process with jute and cotton to produce a jute-cotton-viscose blended yarn. The physical properties were compared with both yarns, which are far different from each other.	Corresponding Author	*Wor. J. Adv. Res. Rev.*, **2022**, 15(02), 205-210

Annexure – 3

Research Programme Developed

SL. No.	Title of the Research Programme(s)/Project(s)	Implementation Status	Remarks
1.	Radiation induced Improvement of Jute materials	Studies on process	Co-scientist in this program
2.	To investigate the Chemical and physical properties of charcoal and activated carbon for various applications in several fields.	Studies completed. papers already has been published	Principal scientist in this program
3.	To investigate jute and allied fibrous materials as industrial raw materials to prepare chemical derivatives, pulp and other non-woven products.	Studies on process	Co-scientist in this program
4.	Radiation induced Improvement of Jute materials.	Studies on process	Co-scientist in this program
5.	Development of the physical and chemical properties of activated carbon, ink and charcoal from jute stick and applications in various fields.	Studies on process	Principal scientist in this program
6.	Development of pulp from jute, which are economically viable.	Studies on process	Co-scientist in this program
7.	Studies on the physic-chemical properties of various chemically modified jute fibre and blends with other natural and synthetic fibre for making fashionable clothes for widely textile uses	Studies on process	Co-scientist in this program

8.	Development of Housing construction Materials and Furniture with Jute Based Composite	Studies on process	Co-scientist in this program
9.	Development of physical and chemical properties of activated carbon in producing ink and charcoal from jute stick.	Studies on process	Principal scientist in this program
10.	Study for minimizing the cost of paper pulp production from jure	Studies on process	Co-scientist in this program
11.	Studies on the physic-chemical properties of various chemically modified jute fibre and blends with other natural and synthetic fibre for making fashionable fabrics for widely textile uses	Studies on process	Co-scientist in this program
12.	Synthesis and characterization of functional Jute Fiber treated with Chitosan metal oxide composite	Studies on process	Co-scientist in this program
13.	Study for minimizing the cost of pulp and paper from jute	Studies on process	Co-scientist in this program
14.	Extraction and *synthesization* of various useful chemical products from jute and allied fibrous materials to produce value added chemical products	Studies on process	Co-scientist in this program
15.	Chemical and physical studies on different samples of jute and allied fibres/sticks in order to increase diversified end uses of jute	Studies on process	Co-scientist in this program
16.	To investigate the physical and chemical properties of charcoal and activated carbon for various applications in several fields	Studies completed. papers already has been published	Principal scientist in this program
17.	Synthesis and characterization of functional Jute Fiber treated with Chitosan-metal oxide composite	Studies on process	Co-scientist in this program

Research Programme Supervised

SL. No.	Title of the Research	Programme No., year and Page

1.	To investigate the Chemical and physical properties of charcoal and activated carbon for various applications in several fields.	C-13, 2018-19, 35-36
2.	Development of the physical and chemical properties of activated carbon, ink and charcoal from jute stick and applications in various fields.	C-13, 2019-2020, 32-33
3.	Development of physical and chemical properties of activated carbon in producing ink and charcoal from jute stick.	C-14, 2020-21, 33-34
4.	To investigate the physical and chemical properties of charcoal and activated carbon for various applications in several fields	C-17, 2021-22, 28-30

List of Research Programme Executed

SL. No.	**Name of Research Programmme(s)/ Project(s) Developed**	**Status and P. SL. Number of executed Programme(s) /Project(s), year of Annual Technical Report and page**
1.	Investigation on jute and allied fiber materials as industrial raw materials to prepare chemical derivatives, pulp and other non-woven products	The report was submitted. Pulp has been produced, and preserved for further study. (**C-15,** 2017-2018, 42-44).
2.	Radiation induced Improvement of Jute reinforced polymer composite materials	The report was submitted. Jute reinforced polymer composite materials have been produced, and preserved for further study. (**C-11**, 2018-19, 41-44)
3.	To investigate the physical and chemical properties of charcoal and activated carbon for various applications in several fields	The report was submitted. Charcoal has been produced, and preserved for producing activated carbon. (**C-13**, 2018-19, 47-48)
4.	To investigate jute and allied fibrous materials as industrial raw materials to prepare chemical derivatives, pulp and other non-woven products	The report was submitted. Pulp has been produced, and preserved for further study. (**C-14**, 2018-19, 49-51)
5.	Radiation induced Improvement of Jute reinforced polymer composite materials	The report was submitted. Jute reinforced polymer composite materials have been produced, and

		preserved for further study.(**C-11**, 2019-2020, 47-50).
6.	To investigate the physical and chemical properties of charcoal and activated carbon for various applications in several fields	The report was submitted. Charcoal and activated carbon have been produced, and preserved for further study. (**C-13**, 2019-2020, 53-54).
7.	To investigate jute and allied fibrous materials as industrial raw materials to prepare chemical derivatives, pulp and other non-woven products	The report was submitted. Pulp has been produced, and preserved for further study. (**C-14**, 2019-2020, 55-57)
8.	Studies on the physicochemical properties of various chemically modified jute fibre and blends with other natural and synthetic fibre for making fashionable clothes for widely textile uses	The report was submitted. Jute blended fashionable clothes have been produced, and preserved for further study**. (C-15**, 2019-2020, 57-60).
9.	To investigate the physical and chemical properties of charcoal and activated carbon for various applications in several fields.	The report was submitted. Activated carbon has been produced, and preserved for analytic study. (**C-14**, 2020-2021, 65-68).
10.	Synthesis and characterization of functional Jute Fiber treated with Chitosan metal oxide composite	The report was submitted. Treated jute fiber has been produced, and preserved for further study. (**C-17**, 2020-2021, 69-71).

Outstanding achievement **Annexure – 4**

Official administrative duties

SL No.	Committee Member	Date
1.	Participant of seminar of Genomic Outreach: BJRI Chapter. 2022	28/06/2022
2.	Member of Internal Technical Research Review Workshop BJRI. 2022	27/06/2022
3.	Participant of the Workshop of development of National Agriculture Research System of A type institute, arranged by Agricultural Ministry. 2022	25/04/2022
4.	Participant of Sensitization Workshop arranged by Agricultural Ministry. 2022	31/03/2022
5.	Member of the committee for the receiving Chemicals and certify the bill. 2022	22/02/2022
6.	Member of the editorial committee of annual research report, 2021 and annual research programme, 2022 technology wings, BJRI. 2022	19/01/2022
7.	Member of Internal Technical Research Review Workshop	13/10/2020

	BJRI. 2020	
8.	Member of the committee for making DPP of Mega Project. 2020	10/09/ 2020
9.	Member of the committee for making DPP Project. 2020	10/09/ 2020
10.	Member of specification and departmental estimation pricing committee for procurement of chemicals. 2020	19/08/2020
11.	Member of the chemical purchase committee of research strengthening project Textile Wing, BJRI, 2020	22/06/2020
12.	Member of National Jute Day Celebration committee. 2020	02/03/2020
13.	Member of the committee for Rescheduling of departmental estimation of machinery and equipment and its specification. 2020	18/02/2020
14.	Member of unused chemical verification committee of Textile Wing, BJRI. 2020	29/01/2020
15.	Member of the committee for verifying the equipment and certify the bill. 2019	30/06/2019
16.	Member of the committee for verifying the equipment and certify the bill. 2019	27/06/2019
17.	Member of the committee for Rescheduling of departmental estimation of machinery and equipment and its specification 2019	31/03/ 2019
18.	Member of Invented Jute product collection committee of National Jute Day Celebration. 2019	12/02/2019
19.	Honorable Member of internal review committee of technology research BJRI. 2018	15/11/2018
20.	Participated (Manirampur) in providing public hearings and service delivery in the 4th National Development Fair across the country. 2018	17/09/2018
21.	Member of Interim evaluation meeting of TRC BJRI, 2017	23/04/2017

Bangladesh National assembly Local Government Election duty

SL No.	Responsibility	Date
1.	Presiding officer Dhaka North City Corporation Election . 2020	30/01/2020
2.	Presiding officer 11th Jatiya Sangsad Election, Banani, Dhaka. 2018	31/12/2018

Membership of Professional Societies

SL. No.	Member
1.	Korean Chemical Society (KCS).
2.	Asian Biological Inorganic Chemistry (AsBIC).
3.	Society of Biological Inorganic Chemistry (SBIC).

Reviewer

SL. No.	Journal	Date
1.	Reviewer of American Journal of Polymer Science and Technology (AJPST) ISSN Print: 2575-5978; ISSN Online: 2575-5986 https://www.sciencepg.com/j/ajpst	06/02/2022 – 06/02/2024
2.	Active review member of Journal of Emerging Technologies and Innovative Research (ISSN : 2349-5162) ID : 222253, https://www.jetir.org/reviewer-board	Since : 18-April-2022 ,
3.	Active IJRAR RMS(Reviewer) Member of the esteemed Journal International Journal of Research and Analytical Reviews (E-ISSN 2348-1269, P- ISSN 2349-5138) ID : 117877, www.ijrar.org	Since : 09-May-2022,

Research paper reviewed

SL. No.	Name of the Journal	Title of the Manuscript	Date of Reviewed
1.	Academia letter	PVC in Cables for Building and Construction. Can the "European Approach.	04/04/2022
2.	Environmental Science Archives	Analysis of Heavy Metals, Minerals and Trace Elements in the Honey Samples from Majha Region, Punjab.	26/06/2022
3.	International Journal of Research and Innovation in Applied Science (IJRIAS)	Study and Interpretation of Physico-Chemical Characteristics of Ground Water Quality at Oil Refinery in and Around in Nagpur City in India.	30/07/2022
4.	International Journal of Research and Innovation in Applied Science (IJRIAS)	Catalytic Conversion of Furfural from Hemicellulose of Citrullus Colocynthis L. (Melon) Seed Husk to Liquid Hydrocarbons,	28/08/2022.

Researcher identity

SL. No.	Name	Website & ID
1.	Google Scholar	https://scholar.google.com/citations?user=iLzaBt4AAAAJ&hl=en
2.	Research Gate	https://www.researchgate.net/profile/Shuranjan_Sarkar
3.	ORCID	https://orcid.org/0000-0002-7760-9784
4.	Scopus	Author ID: 36550566300
5.	Publons	https://publons.com/researcher/5042987/shuranjan-sarkar/
6.	Web of Science	Researcher ID: AFT-0296-2022