

3.7.1.1: Total number of Collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students year wise during the last five years								
Sl. No.	Title of the collaborative activity	Name of the collaborating agency with contact details	Name of the participant	Year of collaboration	Duration (Years)	Nature of the activity	Funding Source	Link for Supporting Documents
1.	Studies of organic molecules adsorbed onto clay mineral layer	Dept. of Chemistry, Yamaguchi University, Japan with Prof. Jun Kawamata	Dr. Syed Arshad Hussain	2013 - 2020	7	Research Collaboration Leading to publications https://www.sciencedirect.com/science/article/abs/pii/S0022369720301001	Variable	Documentary evidence of collaboration certificate is also Attached (Page 1)
2.	Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools	Assam University & Mizoram University	Prof. B.K. Datta	2015	1	Research Collaboration (Joint Project Grant)	DBT Network Project, Department of Biotechnology, Govt. of India, New Delhi	Documentary evidence of collaboration Project Sanction letter is Attached (Page 2)
3	Molecular epidemiology of HPV and Cervical cancer in Tripura: Genetic variation and influencing HPV persistence and disease Development	NIBMG, Kalyani, West Bengal with Dr. Sharmila Sengupta	Prof. SK Sil	2015	1	Research Collaboration (Joint Project Grant)	DBT, Govt of India	Documentary evidence of collaboration Project Sanction letter is Attached (Page 3)
4.	Study the link between thunderstorms and	Porter School of the Environment and	Dr. Anirban Guha	2013 - 2020	7	Research Collaboration	NA	Documentary evidence of


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	upper tropospheric water vapor.	Earth Sciences, Tel Aviv University with Prof. Colin Price				leading to application of Joint Research Grant, workshop visits etc		collaboration certificate is Attached (Page 4)
5	Atmospheric electricity and global climate	Parsons Lab MIT, USA with Prof. ER Williams	Dr. Anirban Guha	2013 - 2020	7	Research Collaboration leading to FULLGEAR and Raman Post Doc Fellowship etc.	NA	Documentary evidence of collaboration certificate is Attached (Page 5)
6	Molecular and cellular studies on normal and diabetic wound healing activities of Parkia javanika a medicinal plant of Tripura, North-East India	Netaji Subhash Mahavidyalaya, Tripura with Dr. Biplab Ghosh	Prof. SK Sil	2014	3	Research Collaboration (Joint Project Grant)	DBT, Govt of India	Documentary evidence of collaboration Project Sanction letter is Attached (Page 6)
7	Studies on anticancer activities of extracts (Bromelain and peroxidase) of different pineapple (Ananus comosus) cultivars of Tripura	Indian Institute of Chemical Biology, Kolkata with Dr. KD Saha	Prof. Debasish Maiti	2014	3	Research Collaboration (Joint Project Grant)	DBT, Govt of India	Documentary evidence of collaboration Project Sanction letter is Attached (Page 7-10)
8	Overcoming EGFR resistant oral squamous cell carcinomas with traditional healer	West Bengal State University, WB	Dr. U.C. De	2015	3	Research Collaboration (Joint Project Grant)	DBT Consortium	Documentary evidence of collaboration Project Sanction letter is Attached


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9	Assessment of carbon stock and carbon sequestration potential in major land use sectors of Tripura	NEHU, NERIST, MU, MZU, AU, RFRI	Dr Sourabh Deb & Prof. BK Dutta	2015	3	Research Collaboration (Joint Project Grant)	DST, NewDelhi	(Page 11-12) Documentary evidence of collaboration Project Sanction letter is Attached (Page 13-14)
10	Installation of indigenously developed Lightning detection network in NE India	SAMEER, Ministry of communication and information technology	Dr. Anirban Guha	2015	5	Research Collaboration (MOU)	SAMEER	Documentary evidence of MOU letter is Attached (Page 15,16)
11	Conductive polymer, their synthesis, functionalization and application as electronic material and in water treatment have	NIT Agartala with Dr. Biswajit Saha, Dept. of Physics	Dr. R.K. Nath	2015	1	Research Collaboration (PhD guidance and publication)	NA	Documentary evidence of collaboration letter is Attached (Page 17)
12	IRNSS Navigation receiver field trial	ISRO	Dr. Anirban Guha	2016	5	Research Collaboration (MOU)	ISRO	Documentary evidence of MOU letter is Attached (Page 18,19)


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Sl. No.	Title of the collaborative activity	Name of the collaborating agency with contact details	Name of the participant	Year of collaboration	Duration (Years)	Nature	Funding Source	Link
1	Microbial roles in yield management of scented rice of northeast India	Manipur University, Assam University BHU, NBRI, IASST	Prof. A.K. Saha	2016-	3	Research Collaboration (Joint Project Grant)	DBT, Govt. of India	Documentary evidence of collaboration Project Sanction letter is Attached (Page 20)
2	Microbial enzyme based natural fiber (Ramie) finishing: an eco-friendly approach	Department of Biotechnology, Ministry of Science and Technology, Govt. of India; Address: 6th-8th Floor, Block 2 CGO Complex, Lodhi Road New Delhi - 110 003. Phone: 011 4950 7200	Dr. Shaon Ray Chaudhuri	2016	3	Research	DBT	Documentary evidence of MOU letter is Attached (Page 21,22)
3	Screening of the antileukemic and antioxidant potential of medicinal plants of Tripura: leading to chemical identification of the lead molecules	Calcutta University	Prof. B.K. Datta	2017	3	Research Collaboration (Joint Project Grant)	DBT, Govt. of India	Documentary evidence of collaboration Project Sanction letter is Attached (Page 23-27)
4	Establishment of a culture collection centre in Northeast	IBSD, IASST, Manipura University, IBSD with Dr Ak Rai	Dr. P. Das & Prof. Shaon Ray	2017	1	Research Collaboration (Joint Project Grant)	DBT, Govt of India	Documentary evidence of collaboration Project Sanction letter is Attached


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	Region of India Phase II		Choudhuri					(Page 28)
5	Schumann resonances (SR) and SR inversion to reproduce the global lightning activity.	Research centre for astronomy any earth science, Geodetic and Geophysical Institute, Hungary	Dr. Anirban Guha	2017 onwards	3	Research Work leading to joint publications	NA	Documentary evidence of collaboration letter is Attached (Page 29)
6	Evaluation of background subtraction effect on classification and segmentation of knee thermogram	Nath S., Physical Medicine and Rehabilitation (PMR) Department, Agartala Government Medical College (AGMC), Agartala, Tripura, 799006, India worked with Bardhan S., Bhowmik M.K.	Bardhan S., Bhowmik M.K.	2016-2017	1	JOINT RESEARCH PUBLICATION	Department of Biotechnology, Ministry of Science and Technology, DBT: BT/533/NE/TBP/2013	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041406308&doi=10.1109%2fICCCNT.2017.8204011&partnerID=40&md5=c58a4e1a30de5772c4d94b158ec33435
7	Qualitative measures of breast thermograms towards abnormality prediction	Majumdar G., Radiotherapy Department, Regional Cancer Center, Agartala Government Medical College, Agartala, Tripura, 799006, India worked with Das K., Bhowmik M.K.	Das K., Bhowmik M.K.	2016-2017	1	JOINT RESEARCH PUBLICATION	Department of Biotechnology, Ministry of Science and Technology, DBT: BT/533/NE/TBP/2013	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041394959&doi=10.1109%2fICCCNT.2017.8204013&partnerID=40&md5=d7b392dc340b16064ae8c93190348914


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8	Comparative Analysis of Social Media Tool Used in Software Projects Deploying Virtual Teams	Natrajan N.S., Galgotias University, Greater Noida, India worked with Mukherjee D.	Mukherjee D.	2016-2017	1	JOINT RESEARCH PUBLICATION	Indian Council of Social Science Research Manipal University	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85037047030&doi=10.1177%2f0972262917733180&partnerID=40&md5=1e1ee6db7fb34c08671037b40af71659
9	Composition-dependent nanoelectronics of amido-phenazines: non-volatile RRAM and WORM memory devices	Maiti D.K., Debnath S., Dinda E., Roy D., Ray S. Department of Chemistry, University of Calcutta, 92 A. P. C. Road, Kolkata, 700009, India Nawaz S.M., Mallik A., Department of Electronic Science, 92 A. P. C. Road, Kolkata, 700009, India Worked with Dey B., Hussain S.A.	Dey B., Hussain S.A.	2016-2017	1	JOINT RESEARCH PUBLICATION	Council of Scientific and Industrial Research, India, CSIR: 02(0250)/15/EMR-II	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031815712&doi=10.1038%2fs41598-017-13754-w&partnerID=40&md5=ce62064d86c77c329a163c645de23ec1
10	Synthesis of MnFe ₂ O ₄ and Mn ₃ O ₄ magnetic nanocomposites with enhanced properties for adsorption of Cr(VI): Artificial	Bhowmik K.L., Saha B. Department of Physics, National Institute of Technology Agartala, Jirania, West Tripura, 799046, India Debnath A.	Nath R.K.	2016-2017	1	JOINT RESEARCH PUBLICATION	Department of Science and Technology, Ministry of Science and Technolo	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85038559439&doi=10.2166%2fwst.2017.501&partnerID=40&md5=6aa9520234f0d123ba71dbb7d5777b80


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	neural network modeling	<p>Department of Civil Engineering, National Institute of Technology Agartala, Jirania, West Tripura, 799046, India</p> <p>Bhowmik K.L. Department of Chemistry, Bir Bikram Memorial College, Agartala, West Tripura, 799004, India Worked with Nath R.K.</p>					<p>gy, India, □□ □□□□: SERB/F/7 430/2013 - 14</p>	
11	Experimental and analytical investigation on metal damage suffered from simulated lightning currents	<p>Liu Y., Fu Z., Key Laboratory of Control of Power Transmission and Conversion, Ministry of Education, Department of Electrical Engineering, Shanghai Jiao Tong University, Shanghai, 200030, China</p> <p>Liu Q., Liu B. State Key Laboratory of Safety and Control for Chemicals, Qingdao Safety Engineering Institute, SINOPEC, Qingdao, 266000, China Worked with Guha A.</p>	Guha A.	2016-2017	1	JOINT RESEARCH PUBLICATION	<p>National Natural Science Foundation of China, NSFC: 51577117</p> <p>https://www.scopus.com/inward/record.uri?eid=2-s2.0-85033569944&doi=10.1088%2f2058-6272%2faa8aca&partnerID=40&md5=3fa4a88290927e99ccef39b52303292e</p>	


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12	Aliasing of the Schumann resonance background signal by sprite-associated Q-bursts	<p>Williams E. Parsons Laboratory, Massachusetts Institute of Technology, Cambridge, MA, United States</p> <p>Boldi R. College of Natural and Health Sciences, Zayed University, Dubai, United Arab Emirates</p> <p>Sátori G., Bór J., Montanyà J. Research Centre for Astronomy and Earth Sciences, GGI, Hungarian Academy of Sciences, Sopron, Hungary</p> <p>Montanyà J., Electrical Engineering Department, Polytechnic University of Catalonia, Barcelona, Spain</p> <p>Ortega P., Laboratory GEPASUD, University of French</p>	Guha A.	2016-2017	1	JOINT RESEARCH PUBLICATION	SR/FST/PS I-191/2014 Grainger Foundation University Grants Committee, UGC Magyar Tudományos Akadémia, MTA: BO/00651/13/10h European Regional Development Fund, FEDER: ESP2013-48032-C5-3-R, ESP2015-69909-C5-5-R	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85034811231&doi=10.1016%2fj.jastp.2017.11.003&partnerID=40&md5=c949a2e8f483c34652379abb4189620e
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		Polynesia, Tahiti, French Polynesia Worked with Guha A.					National Research, Development and Innovation Office: K115836	
13	Designing Co-Pi Modified One-Dimensional n-p TiO ₂ /ZnCo ₂ O ₄ Nanoheterostructure Photoanode with Reduced Electron-Hole Pair Recombination and Excellent Photoconversion Efficiency (>3%)	Sarkar A., Centre for Research in Nanoscience and Nanotechnology, University of Calcutta, Salt Lake, Kolkata, West Bengal, 700106, India Karmakar K., Department of Condensed Matter Physics and Material Sciences, S. N. Bose National Centre for Basic Sciences, Salt Lake, Kolkata, West Bengal, 700106, India Worked with Khan G.G.	Khan G.G.	2016-2017	1	JOINT RESEARCH PUBLICATION	Science and Engineering Research Board, SERB: SR/FTP/ETA-0142/2014 Department of Science and Technology, Government of Kerala: 2015/IF150237, IFA12-ENG-09	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85035760595&doi=10.1021%2fac.7b08213&partnerID=40&md5=22c7664b96b3aef8025fad386ce337ec

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14	Aristolochic acid and its derivatives as inhibitors of snake venom L-amino acid oxidase	Bhattacharjee P., Bera I., Division of Structural Biology and Bioinformatics, CSIR - Indian Institute of Chemical Biology, 4, Raja S.C. Mullick Road, Jadavpur, Kolkata, 700032, India Worked with Chakraborty S., Ghoshal N., Bhattacharyya D.,	Chakraborty S., Ghoshal N., Bhattacharyya D.,	2016-2017	1	JOINT RESEARCH PUBLICATION	Council of Scientific and Industrial Research, India, CSIR University Grants Committee, UGC	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028074973&doi=10.1016%2fj.toxicon.2017.08.003&partnerID=40&md5=c810ec59835e7f700d10394e77db6828
15	Theoretical investigation of structural, electronic and optical properties of MgxBa1-xS, MgxBa1-xSe and MgxBa1-xTe ternary alloys using DFT based FP-LAPW approach	Bhattacharjee R., Department of Physics, Women's College, Agartala, 799001, Tripura, India worked with Bhattacharjee R., Chattopadhyaya S.	Bhattacharjee R., Chattopadhyaya S.	2016-2017	1	JOINT RESEARCH PUBLICATION	Department of Science and Technology, Ministry of Science and Technology, India, □□□□□: SR/FST/PS I-191/2014	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020003446&doi=10.1016%2fj.ipcs.2017.05.015&partnerID=40&md5=0985859ac51227c2aa2066f009c7c10e
16	Discriminative feature selection for breast abnormality	Ghosh A.K., Bhattacharjee D., Department of Computer Science and	Gogoi U.R., Bhowmik M.K.	2016-2017	1	JOINT RESEARCH PUBLICATION	Department of Science and	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85039962069&doi=10.1

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	detection and accurate classification of thermograms	Engineering, Jadavpur University, Kolkata, 700032, West Bengal, India Majumdar G. Radiotherapy Department, Regional Cancer Center, Agartala Government Medical College, Agartala, 799006, Tripura, India Worked with Gogoi U.R., Bhowmik M.K.					Technology, Government of Kerala	109%2fIESPC.2017.8071861&partnerID=40&md5=5007eac03da211cd96025752d9137ef4
17	Preliminary observations from the 3 January 2017, MW 5.6 Manu, Tripura (India) earthquake	Martin S.S. Earth Observatory of Singapore, Nanyang Technological University, Singapore Suresh G., Gahalaut V.K., National Centre for Seismology, Ministry of Earth Sciences, New Delhi, India Ahsan A. Geological Survey of Bangladesh, Dhaka, Bangladesh Worked with Debbarma J.	Debbarma J.	2016-2017	1	JOINT RESEARCH PUBLICATION	National Research Foundation Singapore, NRF Ministry of Education - Singapore, MOE Ministry of Earth Sciences, एमओईएस : /1(257)/2015	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85033402418&doi=10.1016%2fj.jseaes.2017.08.030&partnerID=40&md5=fb3aee92ea1fc2ee1b631a231da1bbef

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
18	Effects of conservation tillage and nutrient management practices on soil fertility and productivity of rice (<i>Oryza sativa</i> L.)-rice system in North eastern region of India	<p>Yadav G.S., ICAR Research Complex for NEH Region, Tripura Centre, Tripura, 799210, India</p> <p>Datta R., Department of Geology and Pedology, Mendel University, Brno, 613 00, Czech Republic</p> <p>Pathan S.I., Department of Agricultural Sciences, Mediterranean University of Reggio, Reggio Calabria RC, 89124, Italy</p> <p>Lal R., Meena R.S., Ohio State University, Carbon Management and Sequestration Centre, Columbus, 43210, OH, United States</p> <p>Babu S., ICAR Research Complex for NEH Region, Umiam, Meghalaya, 793103, India</p>	Datta M.	2016-2017	1	JOINT RESEARCH PUBLICATION	National Endowment for the Humanities, NEH Indian Council of Agricultural Research, ICAR: ICAR	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031415856&doi=10.3390%2fsu9101816&partnerID=40&md5=c11a2477022af6ad621570da4e00e746
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		Mishra P.K., Department of Wood Processing, Mendel University, Brno, 613 00, Czech Republic worked with Datta M.						
19	Exploration of Phytoconstituen ts from Mussaenda roxburghii and Studies of Their Antibiofilm Effect	Das M.C., Sarkar A., Das A., Bhattacharjee S. Department of Molecular Biology & Bioinformatics, Tripura University, Suryamaninagar, 799022, Tripura, India Sandhu P., Akhter Y., Centre for Computational Biology and Bioinformatics, School of Life Sciences, Central University of Himachal Pradesh, Shahpur, Kangra District, 176206, Himachal Pradesh, India Worked with Ghosh R., Dinda B., De U.C.	Ghosh R., Dinda B., De U.C.	2016- 2017	1	JOINT RESEARCH PUBLICATION	Departme nt of Biotechno logy, Ministry of Science and Technolo gy, India, DBT : BT/526/N E/ TBP/2013 Council of Scientific and Industrial Research, India, CSI R: EMR- II/2389	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030176979&doi=10.1002%2fcbdv.201700165&partnerID=40&md5=d6137ee535f3138e219fda62bf41fab
20	Antileishmanial and immunomodulat	Jawed J.J., Division of Molecular Medicine, Bose	Das A., Das M.C., Bhattacha	2016- 2017	1	JOINT RESEARCH PUBLICATION	Society of Nuclear Medicine	https://www.scopus.com/inward/record.uri?eid=2-s2.0-

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
	ory activities of lupeol, a triterpene compound isolated from Sterculia villosa	Institute, Kolkata, West Bengal, India Sandhu P., Akhter Y. Centre for Computational Biology and Bioinformatics, School of Life Sciences, Central University of Himachal Pradesh, Shahpur, Himachal Pradesh, India, worked with Das A., Das M.C., Bhattacharjee S., De U.C., Dinda B.	rjee S., De U.C., Dinda B.				and Molecular Imaging British Mycological Society University of Central Lancashire Office of Biotechnology, Iowa State University Physics Department, University of Michigan Indian Council of Medical Research: 55/5/2012- Bioinform	85028032517&doi=10.1016%2fj.ijantimicag.2017.04.022&partnerID=40&md5=a96c9a01ed5c62595521b06a15f80e7a
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							<p>atics Institute</p> <p>University Grants Commissi on: .1/2016- 17/RGNF- 2015-17- SC-TRI- 488, F1- 17, F1- 17.1/201 6- 17/RGNF- 2015-17- SC-TRI- 488</p> <p>University Grants Committe e: 12/11/20 12, 1667/ GO/a/12/ CPSEA</p> <p>Institute for Molecular Science</p>
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							Ministry of Steel, Government of India	
21	Effects of barium (Ba) doping on structural, electronic and optical properties of binary strontium chalcogenide semiconductor compounds - A theoretical investigation using DFT based FP-LAPW approach	Bhattacharjee R. Department of Physics, Women's College, Agartala, 799001, Tripura, India Worked with Bhattacharjee R., Chattopadhyaya S.	Bhattacharjee R., Chattopadhyaya S.	2016-2017	1	JOINT RESEARCH PUBLICATION	Department of Science and Technology, Ministry of Science and Technology, India, □□ □□□□: SR/FST/PS I-191/2014	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026917435&doi=10.1016%2fj.matchemphys.2017.06.057&partnerID=40&md5=f13c2c26ba430732158b8184a7897eaa
22	Hepatoprotective naphthalene diglucoside from Neanotis wightiana aerial parts	Das N., Department of Chemistry, Netaji Subhas Mahavidyalaya, Udaipur, 799114, Gomati Tripura, India Atanasov A.G., Department of Pharmacognosy, University of Vienna, Althanstrasse, Vienna, 14, 1090, Austria	Dinda B.	2016-2017	1	JOINT RESEARCH PUBLICATION	SR/S1/OC-75/2009 Department of Science and Technology, Ministry of Science and Technology	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026461471&doi=10.1016%2fj.phymed.2017.07.002&partnerID=40&md5=3589dc6b4d1d5a26b0468880533e980d



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		<p>Atanasov A.G., Institute of Genetics and Animal Breeding of the Polish Academy of Sciences, Jastrzebiec, 05-552, Poland</p> <p>Deb P.K., Drug Discovery Research Center, Translational Health Science and Technology Institute, Faridabad, 121001, India</p> <p>Mocan A. Department of Pharmaceutical Botany, Iuliu Hațieganu University of Medicine and Pharmacy, V. Babes 8, Cluj-Napoca, 400012, Romania</p> <p>Nabavi S.M. Applied Biotechnology Research Center, Baqiyatallah University of Medical Sciences, Tehran, Iran</p> <p>Ghosh R.,</p>						<p>gy, India, □□ □□□□</p>	
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		Department of Pharmacology, Tripura Medical College & Dr. BRAM Teaching Hospital, Hapania, 799014, West Tripura, India Worked with Dinda B.						
23	A new cadmium(II) complex with bridging dithiolate ligand: Synthesis, crystal structure and antifungal activity study	Adhikari S., Department of Chemistry, Govt. Degree College, Dharmanagar, Tripura(N), India Laskar F., Advanced Level Institutional Biotech Hub, Karimganj College, Karimganj, Assam, India Butcher R.J., Department of Inorganic and Structural Chemistry, Howard University, Washington, DC, 20059, United States Acharya S., Department of Botany, R.K.Mahavidyalaya, Kailashahar, Unakoti Tripura, Tripura, India	Singh M.K., Sutradhar S., Paul B.,	2016-2017	1.	JOINT RESEARCH PUBLICATION	North-Eastern Hill University, NEHU University Grants Committee, UGC: F.5-333/2015 - 16/MRP/NERO/1074	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016024562&doi=10.1016%2fj.molstruc.2017.03.073&partnerID=40&md5=e1bf067f398900f5de2c292bda8afd02


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		Das A. Department of Chemistry, Ramthakur College, Agartala, Tripura(W), India Worked with Singh M.K., Sutradhar S., Paul B.						
24	Potential of antibiotic against Pseudomonas aeruginosa biofilm: a study with plumbagin and gentamicin	Sandhu P., Akhter Y., Centre for Computational Biology and Bioinformatics, School of Life Sciences, Central University of Himachal Pradesh, Shahpur, Himachal Pradesh, India worked with Gupta P., Sarkar A., Daware A., Das M.C., Bhattacharjee S.	Gupta P., Sarkar A., Daware A., Das M.C., Bhattacha rjee S.	2016- 2017	1	JOINT RESEARCH PUBLICATION	Departme nt of Biotechno logy, Ministry of Science and Technolo gy, India, DBT Indian Council of Medical Research, ICMR University Grants Commissi on, UGC	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020712780&doi=10.1111%2fjam.13476&partnerID=40&md5=df7bf79755fbd62acf2d09b3f41a941f
25	Metal ion- induced H- aggregation of a water-soluble	Debnath C. Department of Physics, MBB College, Agartala, India	Shil A., Hussain S.A.,	2016- 2017	1	JOINT RESEARCH PUBLICATION	Departme nt of Science and	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84992337566&doi=10.1


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	anionic dye Congo red (CR) in Langmuir-Blodgett (LB) film	Worked with Shil A., Hussain S.A., Bhattacharjee D.	Bhattacharjee D.				Technology, Ministry of Science and Technology, India, □□□□□□: SR/FST/PS I-191/2014 University Grants Committee, UGC: F.5-378/2014 -15/MRP/NERO/2235, MR/2014/00234	080%2f10610278.2016.1250897&partnerID=40&md5=d791606130ec401b28964f3e41fef858
26	I-statistical limit superior and I-statistical limit inferior	Mursaleen M. Department of Mathematics, Aligarh Muslim University, Aligarh, 202002, India worked with Debnath S., Rakshit D.	Debnath S., Rakshit D.	2016-2017	1	JOINT RESEARCH PUBLICATION	Council of Scientific and Industrial Research, India, CSIR: 25(0236,	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016076903&doi=10.2298%2fFIL1707103M&partnerID=40&md5=d82ce3b72988053c0fa02fcc5ad0a0d6

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27	Bioleaching of manganese by <i>Aspergillus</i> sp. isolated from mining deposits	Mohanty S., Ghosh S., Nayak S. Bioengineering & Biomineral Processing Laboratory, Centre of Biotechnology, Siksha O Anusandhan University, Khandagiri Square, Bhubaneswar, India worked with Das A.P.	Das A.P.	2016-2017	1	JOINT RESEARCH PUBLICATION	25(0236)/14/EMR-II 07/46SSAG/CAT Department of Biotechnology, Ministry of Science and Technology, India, DBT : BT/PR7454/BCE/8/949/2012 Department of Science and Technology, Government of Kerala: SP/YO/031/2016	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85009080424&doi=10.1016%2fj.chemosphere.2016.12.136&partnerID=40&md5=08ad764accb3b8946dbc7b8e41f9162d
28	Design, synthesis and antimicrobial	Barot K.P., Ghate M.D. Department of Pharmaceutical	Manna K.S.	2016-2017	1	JOINT RESEARCH PUBLICATION	Department of Science	https://www.scopus.com/inward/record.uri?eid=2-s2.0-


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	activities of some novel 1,3,4-thiadiazole, 1,2,4-triazole-5-thione and 1,3-thiazolan-4-one derivatives of benzimidazole	Chemistry, Institute of Pharmacy, Nirma University, Ahmedabad, Gujarat, India worked with Manna K.S.					and Technology, Ministry of Science and Technology, India, डीए सटी	84885544443&doi=10.1016%2fj.jscs.2013.09.010&partnerID=40&md5=3a3f559ab247f067ee7b8a7f7aa31e37
29	miRNAs in Alzheimer disease - A therapeutic perspective	Chakraborty C. Department of Bioinformatics, Galgotias University, Greater Noida, 203201, India Sharma A.R., Sharma G., Lee S.-S. Institute for Skeletal Aging and Orthopedic Surgery, Hallym University-Chuncheon Sacred Heart Hospital, Chuncheon, 200704, South Korea worked with Gupta P., Bhattacharjee S.	Gupta P., Bhattacharjee S.	2016-2017	1	JOINT RESEARCH PUBLICATION	Hallym University, Hallym Ministry of Education, MOE: 2014R1A1A4A03009388 Ministry of Health and Welfare, MOHW: HI12C1265 Korea Health Industry Developm	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040072888&doi=10.2174%2f1567205014666170829101016&partnerID=40&md5=c02b6fe548e11b99be11b27415d236f6

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							ent Institute, KHIDI	
							National Research Foundatio n of Korea, NR F	
30	Antibiofilm activity of: <i>Parkia javanica</i> against <i>Pseudomonas aeruginosa</i> : A study with fruit extract	Sandhu P., Akhter Y. Centre for Computational Biology and Bioinformatics, School of Life Sciences, Central University of Himachal Pradesh Shahpur, District-Kangra, Himachal Pradesh, 176206, India Das N. Department of Chemistry, Netaji Subhash Mahavidyalaya, Udaipur Tripura, 799114, India Tribedi P. Department of Microbiology, Don Bosco University, Guwahati Assam, 781017, India worked with Das A., Das M.C.,	Das A., Das M.C., Bhattacha rjee S., De U.C.	2016- 2017	1	JOINT RESEARCH PUBLICATION	Baton Rouge Area Foundation, BRAF Department of Biotechnology, Ministry of Science and Technology, India, DBT : BT/526/N E/TBP/20 13 University Grants	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85010289659&doi=10.1039%2fc6ra24603f&partnerID=40&md5=8949508ed95e32dda3723edbe99a6333

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(Dr. K.B. Jamatia)
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		Bhattacharjee S., De U.C.					Commissi on, UGC	
31	Rupture model of Mw 7.8 2015 Gorkha, Nepal earthquake: Constraints from GPS measurements of coseismic offsets	Yadav R.K., Catherine J.K., Kumar A. CSIR-National Geophysical Research Institute, Hyderabad, India Roy P.N.S.,Gupta S.K.,Khan P.K., Department of Applied Geophysics, Indian School of Mines, Dhanbad, India Prajapati S.K., Gahalaut V.K. National Centre for Seismology, Ministry of Earth Sciences, New Delhi, India Puviarasan N. India Meteorological Department, New Delhi, India Bhu H. Department of Geology, MLS University, Udaipur, India Devachandra M.	Debbarm a C.	2016-2017	1	JOINT RESEARCH PUBLICATION	Council of Scientific and Industrial Research, India, CSIR Ministry of Earth Sciences, एमओईएस	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964645541&doi=10.1016%2fj.jseaes.2016.04.015&partnerID=40&md5=498a6a70ed6fd0c6bd0c76776dad3421

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Registrar (I/C)
Tripura University
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		Department of Earth Sciences, Manipur University, Imphal, India Malik J. Department of Earth Sciences, IIT Kanpur, India Kundu B. Department of Earth and Atmospheric Sciences, NIT Rourkela, India worked with Debbarma C.,						
32	I-statistical limit superior and I-statistical limit inferior	Mursaleen M. Department of Mathematics, Aligarh Muslim University, Aligarh, 202002, India worked with Debnath S., Rakshit D.	Debnath S., Rakshit D.	2016-2017	1	JOINT RESEARCH PUBLICATION	Council of Scientific and Industrial Research, India, CSIR: 25(0236, 25(0236)/14/EMR-II	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016076903&doi=10.2298%2fFIL1707103M&partnerID=40&md5=d82ce3b72988053c0fa02fcc5ad0a0d6
33	Bioleaching of manganese by Aspergillus sp. isolated from mining deposits	Mohanty S., Ghosh S., Nayak S. Bioengineering & Biomineral Processing Laboratory, Centre of Biotechnology, Siksha O Anusandhan University, Khandagiri Square,	Das A.P.	2016-2017	1	JOINT RESEARCH PUBLICATION	07/46SSAG/CAT Department of Biotechnology, Ministry of Science	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85009080424&doi=10.1016%2fj.chemosphere.2016.12.136&partnerID=40&md5=08ad764accb3b8946dbc7b8e41f9162d

(Signature) B. Janatia
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Tripura University
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		Bhubaneswar, India worked with Das A.P.					and Technology, India, DBT : BT/PR7454/BCE/8/949/2012 Department of Science and Technology, Government of Kerala: SP/YO/031/2016	
34	Design, synthesis and antimicrobial activities of some novel 1,3,4-thiadiazole, 1,2,4-triazole-5-thione and 1,3-thiazolan-4-one derivatives of benzimidazole	Barot K.P., Ghate M.D. Department of Pharmaceutical Chemistry, Institute of Pharmacy, Nirma University, Ahmedabad, Gujarat, India worked with Manna K.S.	Manna K.S.	2016-2017	1	JOINT RESEARCH PUBLICATION	Department of Science and Technology, Ministry of Science and Technology, India, डीएसटी	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84885544443&doi=10.1016%2fj.jscs.2013.09.010&partnerID=40&md5=3a3f559ab247f067ee7b8a7f7aa31e37

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35	miRNAs in Alzheimer disease - A therapeutic perspective	Chakraborty C. Department of Bioinformatics, Galgotias University, Greater Noida, 203201, India Sharma A.R., Sharma G., Lee S.-S. Institute for Skeletal Aging and Orthopedic Surgery, Hallym University-Chuncheon Sacred Heart Hospital, Chuncheon, 200704, South Korea worked with Gupta P., Bhattacharjee S.	Gupta P., Bhattacharjee S.	2016-2017	1	JOINT RESEARCH PUBLICATION	Hallym University , Hallym Ministry of Education , MOE: 2014R1A1A4A03009388 Ministry of Health and Welfare, MOHW: HI12C1265 Korea Health Industry Development Institute, KHIDI National Research Foundation of Korea, NRF	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040072888&doi=10.2174%2f1567205014666170829101016&partnerID=40&md5=c02b6fe548e11b99be11b27415d236f6
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36	Antibiofilm activity of: <i>Parkia javanica</i> against <i>Pseudomonas aeruginosa</i> : A study with fruit extract	Sandhu P., Akhter Y. Centre for Computational Biology and Bioinformatics, School of Life Sciences, Central University of Himachal Pradesh Shahpur, District-Kangra, Himachal Pradesh, 176206, India Das N. Department of Chemistry, Netaji Subhash Mahavidyalaya, Udaipur Tripura, 799114, India Tribedi P. Department of Microbiology, Don Bosco University, Guwahati Assam, 781017, India worked with Das A., Das M.C., Bhattacharjee S., De U.C.	Das A., Das M.C., Bhattacharjee S., De U.C.	2016-2017	1	JOINT RESEARCH PUBLICATION	Baton Rouge Area Foundation, BRAF Department of Biotechnology, Ministry of Science and Technology, India, DBT : BT/526/NE/TBP/2013 University Grants Commission, UGC	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85010289659&doi=10.1039%2fc6ra24603f&partnerID=40&md5=8949508ed95e32dda3723edbe99a6333
37	Rupture model of Mw 7.8 2015 Gorkha, Nepal earthquake: Constraints from GPS measurements of coseismic offsets	Yadav R.K., Catherine J.K., Kumar A. CSIR-National Geophysical Research Institute, Hyderabad, India Roy P.N.S., Gupta S.K., Khan P.K.,	Debbarm a C.	2016-2017	1	JOINT RESEARCH PUBLICATION	Council of Scientific and Industrial Research, India, CSIR Ministry	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964645541&doi=10.1016%2fj.jseaes.2016.04.015&partnerID=40&md5=498a6a70ed6fd0c6bd0c76776dad3421

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Registrar (I/C)
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		<p>Department of Applied Geophysics, Indian School of Mines, Dhanbad, India</p> <p>Prajapati S.K., Gahalaut V.K. National Centre for Seismology, Ministry of Earth Sciences, New Delhi, India</p> <p>Puviarasan N. India Meteorological Department, New Delhi, India</p> <p>Bhu H. Department of Geology, MLS University, Udaipur, India</p> <p>Devachandra M. Department of Earth Sciences, Manipur University, Imphal, India</p> <p>Malik J. Department of Earth Sciences, IIT Kanpur, India</p> <p>Kundu B.</p>					<p>of Earth Sciences, एमओईएस</p>	
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 (Dr. K.B. Jamatia)
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		Department of Earth and Atmospheric Sciences, NIT Rourkela, India worked with Debbarma C.,						
38	I-statistical limit superior and I-statistical limit inferior	Mursaleen M. Department of Mathematics, Aligarh Muslim University, Aligarh, 202002, India worked with Debnath S., Rakshit D.	Debnath S., Rakshit D.	2016-2017	1	JOINT RESEARCH PUBLICATION	Council of Scientific and Industrial Research, India, CSIR: 25(0236, 25(0236)/14/EMR-II	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016076903&doi=10.298%2fFIL1707103M&partnerID=40&md5=d82ce3b72988053c0fa02fcc5ad0a0d6


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Sl. No.	Title of the collaborative activity	Name of the collaborating agency with contact details	Name of the participant	Year of collaboration	Duration (Years)		Funding Source	Link
1	Microbial consortium based biofertilizer for increased Ramie Fiber yield	M/S KIIT Technology Business Incubator and BIRAC ; Address: Campus 11, KIIT University, Bhubaneswar, Odisha 751024. Phone: 0674 272 5466	Dr. Shaon Ray Chaudhuri	2017	2.5	Research work MOU for technology incubation	BIRAC, BIG	Documentary evidence of MOU letter is Attached (Page 30)
2	Bioresources and sustainable livelihood in Northeast India	Balipara Foundation Assam, Nagaland University, IBSD Manipur, Mizoram University, NEHU	Prof. B.K. Datta	2018	3	Research Collaboration (Joint Project Grant)	DBT, Govt. of India	Documentary evidence of collaboration Project Sanction letter is Attached (Page 31)
3	Genome characterization of Banana genetic resource of NE region	Utkal University, Bhubaneswar	Prof. Rk Sinha	2018	3	Research Collaboration (Joint Project Grant)	DBT, Govt. of India	Documentary evidence of collaboration Project Sanction letter is Attached (Page 32)
4	Unique supramolecular assembly through	Mehta N. Physics Department, Institute of Science,	Hussain S.A., Dey B.,	2017-2018	1	JOINT RESE ARCH	Department of Science and Technology,	https://www.scopus.com/inward/record.uri?e

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	Langmuir – Blodgett (LB) technique	Banaras Hindu University, Varanasi, 221005, India Worked with Hussain S.A., Dey B., Bhattacharjee D.	Bhattacharjee D.			PUBLICATION	Ministry of Science and Technology, India, □□□□ □□: EMR/2014/000 234, SR/FST/P SI-191/2014 University Grants Committee, UGC University Grants Commission- Nepal, UGC Department of Science and Technology, Government of Rajasthan, DST	id=2-s2.0-85058475763 &doi=10.1016%2Fj.heliyon.2018.e01038&partnerID=40&md5=cf83091c6e7c9efe5dfb5de21575aff5
5	Fuzzy δ -I-continuity in mixed fuzzy ideal topological spaces	Ray, G.C., Department of Mathematics, Central Institute of Technology, Kokrajhar, Assam 783370, India Worked with Tripathy, B.C	Tripathy, B.C	2017-2018	1	JOINT RESEARCH PUBLICATION	--	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057294804 &doi=10.1515%2Fjaa-2018-0022&partnerID=40&md5=5


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								1f6b8a55370fdc636ebedbc65bf6497
6	Preparation of Lauroyl Grafted Alginate-Psyllium Husk Gel Composite Film with Enhanced Physicochemical, Mechanical and Antimicrobial Properties	Fernandes C., Bhatt S. Shobhaben Pratapbhai Patel School of Pharmacy and Technology Management, SVKM'S NMIMS, Mumbai, 400056, India worked with Acharya P.C.	Acharya P.C.	2018	NA	JOINT RESE ARCH PUBLI CATIO N	---	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056932593&doi=10.1038%2fs41598-018-35632-9&partnerID=40&md5=26f0900e6ff456a9ab5866b6a28cb20e
7	Regular matrix transformation on triple sequence spaces-i	Das, B.C., Government Degree College, Department of Mathematics, Dhalai, Kamalpur, Tripura 799285, India worked with Debnath, S.,	Debnath, S.,	2017-2018	1	JOINT RESE ARCH PUBLI CATIO N	-	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055046120&doi=10.24193%2fmathcluj.2018.2.04&partnerID=40&md5=88e87e3fac03e7015f6c1ee499799270
8	A review of biotechnology processes applied for	Mohanty S., Ghosh S. Bioengineering and Biomineral Processing Laboratory, Centre of	Bal B., Das A.P.	2017-2018	1	JOINT RESE ARCH PUBLI	BT/PR7454/BC E/8/949/2012 07/46SSAG/CA	https://www.scopus.com/inward/record.uri?eid=2-s2.0-


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	manganese recovery from wastes	Biotechnology, Siksha O Anusandhan Deemed to be University, Bhubaneswar, India worked with Bal B., Das A.P.				CATION	T Department of Science and Technology, Government of Kerala: SP/YO/031/2016	85053417031&doi=10.1007%2fs11157-018-9482-1&partnerID=40&md5=486866193a96c2072ffcf516f16c9c35
9	Singular value based characterization and analysis of thermal patches for early breast abnormality detection	Gogoi U.R., Bhowmik M.K., Ghosh A.K. Department of Computer Science & Engineering, worked with Bhattacharjee D.	Bhattacharjee D.	2017-2018	1	JOINT RESEARCH PUBLICATION	Department of Science and Technology, Government of Kerala: IF150970 Department of Biotechnology, Government of West Bengal, DBT-WB	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053408004&doi=10.1007%2fs13246-018-0681-4&partnerID=40&md5=159cfd72fee63cefbf3e6cf72d4b2c06
10	Metagenomic insights into the microbial diversity in manganese-contaminated mine tailings and their role in biogeochemical cycling of manganese	Ghosh S. Bioengineering and Bio Mineral Processing Laboratory, Centre for Biotechnology, Siksha 'o' Anusandhan University, Bhubaneswar, Odisha, India worked with Das A.P.	Das A.P.	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047876180&doi=10.1038%2fs41598-018-26311-w&partnerID=40&md5=c34a


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								499e812cfbce 8709bdf90a00 9f83
11	Free tryptophan residues inhibit quorum sensing of <i>Pseudomonas aeruginosa</i> : a potential approach to inhibit the development of microbial biofilm	Kumari M., Centre for Computational Biology and Bioinformatics, Central University of Himachal Pradesh, Shahpur, Kangra, 176206, Himachal Pradesh, India Chatterjee A., Bhattacharyya D., Mitra G. Department of Biotechnology, Neotia Institute of Technology, Management and Science (NITMAS), Sarisha, 743368, West Bengal, India Akhter Y., Department of Biotechnology, Babasaheb Bhimrao Ambedkar University, Vidya Vihar, Raebareli Road, Lucknow, 226025, Uttar Pradesh, India worked with Daware A.V., Bhattacharjee S.,	Daware A.V., Bhattacharjee S.,	2017- 2018	1	JOINT RESE ARCH PUBLI CATIO N		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050525362&doi=10.1007%2fs00203-018-1557-4&partnerID=40&md5=fd0b2bd5b0ce87513b51ded0d9b7e096

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12	A compact printed UWB MIMO monopole antenna with modified complementary fractal for isolation improvement and triple band notch characteristics	Banerjee J., Deptment of ECE, Adamas University, Kolkata, India. Department of ECE, National Institute of Technology, Durgapur, West Bengal, India Worked with Karmakar A.	Karmakar A.	2017- 2018	1	JOINT RESE ARCH PUBLI CATIO N	-	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059854778&doi=10.1109%2fWOCN.2018.8556127&partnerID=40&md5=150a1b2c9a6b8203b2a94e2fc3f33d9f
13	Estimation of Architectural Distortion in Mammograms using Fractal Features	Roy A., Department of Life Sciences, New York Institute of Technology, New York, 10023, NY, United States Worked with Bhowmik M.K., Gogoi U.R., Nath N.	Bhowmik M.K., Gogoi U.R., Nath N.	2017- 2018	1	JOINT RESE ARCH PUBLI CATIO N	Department of Biotechnology, Ministry of Science and Technology, India, DBT Department of Science and Technology, Ministry of Science and Technology, India, □□□□ □□: IF150970 Department of Biotechnology, Ministry of	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058451130&doi=10.1109%2fNSSMIC.2017.8533040&partnerID=40&md5=5a7c8f9e31a024d30c63bf7514c72f52

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
							Science and Technology, India, DBT	
14	Modulation of S. aureus and P. aeruginosa biofilm: an in vitro study with new coumarin derivatives	Sandhu P., Akhter Y., Centre for Computational Biology and Bioinformatics, School of Life Sciences, Central University of Himachal Pradesh, Shahpur District-Kangra, 176206, Himachal Pradesh, India Worked with Das T., Bhowmik S., Das M.C., Das A., Bhattacharjee S., De U.C.	Das T., Bhowmik S., Das M.C., Das A., Bhattacharjee S., De U.C.	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056091754&doi=10.1007%2fs11274-018-2545-1&partnerID=40&md5=fd534f5c8359301a966e526af5bb30a1
15	An ultra-wideband diversity antenna with novel fractal neutralization line for isolation improvement and dual band rejection attributes	Banerjee J., Dept. of ECE, Adamas University, Kolkata, India Ghatak R., Department of ECE, National Institute of Technology, Durgapur, West Bengal, India Worked with Karmakar A.,	Karmakar A.,	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074782588&doi=10.1109%2fIMaRC.2018.8877375&partnerID=40&md5=d785934dafdeac4505eef4381fc2e888

(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

16	3,6-Di(pyridin-2-yl)-1,2,4,5-tetrazine (pytz)-capped silver nanoparticles (TzAgNPs) inhibit biofilm formation of Pseudomonas aeruginosa: a potential approach toward breaking the wall of biofilm through reactive oxygen species (ROS) generation	Chakraborty P., Tribedi P., Department of Biotechnology, The Neotia University, Sarisha, 743368, West Bengal, India Joardar S., Department of Biotechnology, Neotia Institute of Technology, Management and Science (NITMAS), Sarisha, 743368, West Bengal, India Ray S., Biswas P. Department of Chemistry, Indian Institute of Engineering Science and Technology, Shibpur, Howrah, 711103, India Worked with Maiti D.	Maiti D.	2017-2018	NA	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047905332&doi=10.1007%2fs12223-018-0620-5&partnerID=40&md5=555e50d5295e518ea41cd95f4a0170d5
17	Ichnocarpus frutescens (L.) R. Br. root derived phyto-steroids defends inflammation and algesia by pulling down the pro-inflammatory and nociceptive pain mediators: An in-vitro and in-vivo appraisal	Das N., Bhattacharya A., Department of Chemistry, Netaji Subhas Mahavidyalaya, Gomati Tripura, Udaipur, 799 114, India Kumar Mandal S., B. C. Roy College of Pharmacy & Allied	Dinda B.	2017-2018	1	JOINT RESEARCH PUBLICATION	Department of Science and Technology, Ministry of Science and Technology, India, □□□□□□	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053811763&doi=10.1016%2fj.steroids.2018.09.005&partnerID=40&

(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar


		<p>Health Sciences, Durgapur, 713206, India</p> <p>Debnath U., Division of Molecular Medicine, Bose Institute, Kolkata, 700054, India Mandal S.C., Pharmacognosy and Phytotherapy Research Laboratory, Division of Pharmacognosy, Department of Pharmaceutical Technology, Jadavpur University, Kolkata, 700032, India</p> <p>Kumar Sinhamahapatra P., Division of Pharmaceutical Chemistry, Institute of Pharmacy and Technology, Salipur, Cuttack, 754202, Odisha, India Kumar A., Dutta Choudhury M., Department of Life Science and Bioinformatics, Biotech Hub, Assam University, Silchar, 788011, Assam, India</p>				<p>Science and Engineering Research Board, SERB: DBT/JRF/BET- 16/I/2016/AL/9 0- 466, SB/FT/LS- 269/2012</p>	<p>md5=84a203fa 988b297c57f4 ea0e9dcd1d69</p>
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		<p>Maiti S., Department of Pharmacy, Indira Gandhi National Tribal University, Amarkantak, 484887, Madhya Pradesh, India</p> <p>Palit P., Dept. of Pharmaceutical Science, Drug Discovery Research Laboratory, Division of Pharmacognosy, Assam University (A Central University), Silchar, 788011, Assam, India Worked with Dinda B.</p>						
18	Quality Enhancement of Foggy Images Comprising of Large Sky Region on SAMEER TU Dataset	<p>Pal T., Department of Computer Science and Engineering, National Institute of Technology, Agartala, India Worked with Bhowmik M.K.</p>	Bhowmik M.K.	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056875452&doi=10.1109/%2fICCCNT.2018.8493832&partnerID=40&md5=da61091c026a3546616cf14ee7c7b788


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19	Fabrication of One Dimensional MnO ₂ -TiO ₂ Nano-Heterostructures for Enhanced Hole Mediated Oxidation of As(III) in Potable Water	Sarkar A., Paul B., Department of Environmental Science and Engineering, Indian Institute of Technology (Indian School of Mines) Dhanbad, Jharkhand, 826 004, India Sarkar A., Centre for Research in Nanoscience and Nanotechnology, University of Calcutta Salt Lake, Sector-III, Block -JD2, Kolkata, 700 106, India Worked with Khan G.G.	Khan G.G.	2017-2018	1	JOINT RESE ARCH PUBLI CATION	Ministry of Human Resource Development, MHRD Department of Science and Technology, Government of Kerala Illinois State Museum, ISM North-Eastern Hill University, NEHU	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053053462&doi=10.1002%2fctc.20180915&partnerID=40&md5=61625db888d689dceb2e22dc5926075
20	An efficient strategy for N-alkylation of benzimidazoles/imidazoles in SDS-aqueous basic medium and N-alkylation induced ring opening of benzimidazoles	Debnath S., Ghosh T., Maiti D.K., Department of Chemistry, University of Calcutta, 92, A. P. C. Road, Kolkata, 700 009, India Worked with Chakraborty A., Majumdar S.	Chakraborty A., Majumdar S.,	2017-2018	1	JOINT RESE ARCH PUBLI CATION	Construction Industry Council, CIC	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053205816&doi=10.1016%2fj.tet.2018.08.029&partnerID=40&md5=dbc12893c642ddf55630910d5bfe7e27


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21	A Wideband Vivaldi Antenna with Fractal Dielectric Lens for Imaging Applications	Saha A., Netaji Subhash Engineering College, Department of AEIE, Kolkata, India Worked with Karmakar A., Bhattacharjee A., Bhawal A.	Karmakar A., Bhattacharjee A., Bhawal A.	2017- 2018	1	JOINT RESE ARCH PUBLI CATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084138426&doi=10.1109%2f12CT42659.2018.9057807&partnerID=40&md5=65d06e5527bf90b6f0928f6ea306a82a
22	Application of bioengineering in revamping human health	Ghosh S.,Kumar M.S., Bioengineering Laboratory, Centre for Biotechnology, Siksha O Anusandhan (Deemed to Be University), Bhubaneswar, India Worked with Bal B., Das A.P.	Bal B., Das A.P.	2017- 2018	1	JOINT RESE ARCH PUBLI CATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078234905&doi=10.1007%2f978-981-10-8693-9_2&partnerID=40&md5=181a8e28018a6a95cf6d94530217a2c2
23	On I-statistical convergence	Rakshit D., Department of FST, ICFAI University, West Tripura,, Kamalghat, 799210, Tripura, India	Debnath S.	2017- 2018	1	JOINT RESE ARCH PUBLI	Council for Scientific and Industrial Research, CSIR :	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057132624

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		Worked with Debnath S.				CATIO N	25(0236)/14/E MR-II	&partnerID=4 0&md5=c1444 4048f90f77f66 5caddc988896 be
24	Bank material characteristics and its impact on river bank erosion, West Tripura district, Tripura, North-East India	Das C., Department of Civil Engineering, Indian Institute of Engineering Science and Technology, Shibpur, Haora, 711 103, India Worked with Bhowmik M., Das (Pan) N., Ahmed I., Debnath J.	Bhowmik M., Das (Pan) N., Ahmed I., Debnath J.	2017- 2018	1	JOINT RESE ARCH PUBLI CATIO N	Science and Engineering Research Board, SERB Department of Science and Technology, Government of Kerala	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055733625&doi=10.18520%2fcs%2fv115%2ffi8%2fl571-1576&partnerID=40&md5=38b8dea7baa54f1b89605ce8158b17ce
25	Synthesis of poly(methyl methacrylate) via ARGET ATRP and study of the effect of solvents and temperatures on its polymerization kinetics	Dhar A., Haloi D.J., Department of Chemistry, Bodoland University, Kokrajhar, India Worked with Koiry B.P.	Koiry B.P.	2017- 2018	1	JOINT RESE ARCH PUBLI CATIO N	Science and Engineering Research Board, SERB: ECR/2015/000075	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052244616&doi=10.1002%2fkin.21210&partnerID=40&md5=4f066b15c7227e50e

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								575bcb411946 0a7
26	Degradation of fibrin- β amyloid co- aggregate: A novel function attributed to ubiquitin	Bhattacharjee P., Bhattacharyya D., De D., Division of Structural Biology and Bioinformatics, CSIR - Indian Institute of Chemical Biology, 4, Raja S. C. Mallick Road, Jadavpur, Kolkata, 700032, India Worked with Bhattacharyya D.	Bhattacharyya D.	2017- 2018	NA	JOINT RESE ARCH PUBLI CATIO N	Council of Scientific and Industrial Research, CSIR : miND BSC0115 Department of Science and Technology, D OST: SR/CSI/07/200 9(G)	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050890755&doi=10.1016%2Fj.bbamer.2018.07.012&partnerID=40&md5=f25921032686d87545b9d6dbe30ede09
27	Modulation of cytokine expression by dietary levan in the pathogen aggravated rohu, Labeo rohita fingerlings	Gupta S.K., Sarkar B., Naskar S., ICAR-Indian Institute of Agricultural Biotechnology, Namkum, Ranchi, 834010, India Kumar N., ICAR-National Institute of Abiotic Stress Management, Baramati, Pune, 413115, India Uppuluri K.B.,	Bhattacharjee S.	2017- 2018	1	JOINT RESE ARCH PUBLI CATIO N		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048563713&doi=10.1016%2Fj.aquaculture.2018.06.025&partnerID=40&md5=9b9799246b342df23ecac264bd888865


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		Bioprospecting Laboratory, School of Chemical and Biotechnology, SASTRA Deemed University, Thanjavur, 613 401, India Workwd with Bhattacharjee S.						
28	Photophysical study of the interaction between ZnO nanoparticles and globular protein bovine serum albumin in solution and in a layer-by-layer self-assembled film	Hansda C., Maiti P., Singha T., Paul P.K. Department of Physics, Jadavpur University, Jadavpur, Kolkata, 700032, India Pal M., Sarojini Naidu College for Women, Dum-Dum, Kolkata, 700028, India Maiti P., Paul S., West Bengal State Council of Science and Technology, Vigyan Chetana Bhavan, Sector-I, Salt Lake, Kolkata, 700064, India Hansda C., Department of Physics, The University of Burdwan, Golapbaag, Burdwan, 713104, India Worked with Hussain S.A.	Hussain S.A.	2017-2018	1	JOINT RESEARCH PUBLICATION	493/WBSCST/F/0545/15 Science and Engineering Research Board, SERB: EMR/2014/000 234, SB/EMEQ -142/2014	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047341344&doi=10.1016/j.jpcs.2018.05.029&partnerID=40&md5=a5f5e8c75893b0e22f3a0cd448d8c95f


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29	Agile teams as complex adaptive systems (CAS)	Srinivasan B.N., School of Business, Galgotias University, Greater Noida, Uttar Pradesh, India Worked with Mukherjee D.	Mukherjee D.	2017- 2018	1	JOINT RESE ARCH PUBLI CATIO N		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072018846&doi=10.1007%2fs41870-018-0122-3&partnerID=40&md5=319ef943b673de3d8f3a25d8caea3d91
30	Micellar effect of surfactant on the aggregation pattern of a fluorescent dye in ultra-thin film	Debnath C., Department of Physics, MBB College, Agartala, 799004, Tripura, India Worked with Debnath C.,Saha M.,Hussain S.A.,Bhattacharjee D.	Debnath C.,Saha M.,Hussain S.A.,Bhattacharjee D.	2017- 2018	1	JOINT RESE ARCH PUBLI CATIO N	Council of Scientific and Industrial Research, India, CSIR: 03(1146)/09/E MR- II, SE/FTP/PS- 54/2007, SR/W OS-A/PM- 1034/2014 University Grants Committee, UG C: F.5-	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049634891&doi=10.1016%2fj.jphotochem.2018.07.005&partnerID=40&md5=1a7b1aed457fcd7453003ea49c1745c4


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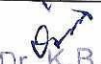
							378/2014-15/MRP/NERO/2235	
							Department of Science and Technology, Government of West Bengal, DST	
31	Study of aerosol types and seasonal sources using wavelength dependent Ångström exponent over North-East India: Ground-based measurement and satellite remote sensing	Gogoi M.M., Babu S.S., Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram, 695022, India Worked with Dhar P., Banik T., De B.K., Guha A.	Dhar P., Banik T., De B.K., Guha A.	2017-2018	1	JOINT RESE ARCH PUBLI CATION	Department of Science and Technology, Ministry of Science and Technology, India, DST: Ref.SR/FST/PS I-191/2014	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049487106&doi=10.1016%2fj.asr.2018.06.017&partnerID=40&md5=bdcae4c679a1c6998f96be4c0745b828
32	Experimental and computational studies on a new mixed ligand oxido-rhenium(V) compound	Naskar J.P., Department of Chemistry, Inorganic Chemistry Section, Jadavpur University, Kolkata, India Ganguly R., Division of Chemistry & Biological Chemistry,	Saha P., Majumder S., Saha B., Bhattacharya A., Chowdhury S.	2017-2018	1	JOINT RESE ARCH PUBLI CATION	Department of Science and Technology, Ministry of Science and Technology, India, DST: SB/EMEQ-029/2013, SR/F	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046403223&doi=10.1002%2fjccs.201800033&partnerID=40&md5=6

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		Nanyang Technological University, Singapore, Singapore Chowdhury S., Department of Chemistry, University of GourBanga, Malda, India Worked with Saha P., Majumder S., Saha B., Bhattacharya A., Chowdhury S.					T/CS-75/2010 University Grants Committee, UG C Science and Engineering Research Board, SERB Department of Science and Technology, Government of Kerala: SB/EMEQ-029/2013SR/FT/Cs-75/2010	8b9393bf553c6556b97e8a308249007
33	Synthesis, structural features, antibacterial behaviour and theoretical investigation of two new manganese(III) Schiff base complexes	Roy S., Department of Chemistry, IISER Bhopal, Bhopal Bypass Road, Bhauri, Bhopal, 462066, M.P., India Male L., School of Chemistry, University of Birmingham, Edgbaston, Birmingham, B15 2TT, United Kingdom	Paul P., Bhowmik K.R.N., Deb D., Das N., Bhattacharjee M., Dutta Purkayastha R.N., Maiti D.	2017-2018	1	JOINT RESE ARCH PUBLI CATIO N	CSD2010-00065 SR/FST/CSI-263/2015 Department of Science and Technology, Ministry of Science and Technology, India, □□□□	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048579539&doi=10.1016%2fj.poly.2018.05.043&partnerID=40&md5=301678606badc6376f4b8ba4a929200e

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		<p>Mckee V., School of Chemical Sciences, Dublin City University, Glasnevin, Dublin 9, Ireland</p> <p>Pallepogu R., Department of Chemistry, Dr. Harisingh Gour University, Sagar, 470003, Madhya Pradesh, India</p> <p>Bauza A., Fontera A., Departament de Química, Universitat de les Illes Balears, Crta. de Valldemossa km 7.5, Palma de Mallorca (Balears), 07122, Spain</p> <p>Kirillov A.M., Centro de Química Estrutural, Instituto Superior Técnico, Universidade de Lisboa, Av. Rovisco Pais, Lisbon, 1049-001, Portugal</p> <p>Worked with Paul P., Bhowmik K.R.N., Deb D., Das N., Bhattacharjee M., Dutta Purkayastha R.N., Maiti D.</p>					<p>□□</p> <p>Science and Engineering Research Board, SERB</p> <p>Fundação para a Ciência e a Tecnologia, FC T: LISBOA-01- 0145-FEDER- 029697, UID/Q UI/00100/2013</p>	
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34	A Ground Truth Annotated Video Dataset for Moving Object Detection in Degraded Atmospheric Outdoor Scenes	Oakley J., School of Electrical and Electronic Engineering, University of Manchester, Manchester, M60 1QD, United Kingdom Worked with Dev Roy S.,Kanti Bhowmik M.	Dev Roy S.,Kanti Bhowmik M.	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062922743&doi=10.1109%2fICIP.2018.8451572&partnerID=40&md5=5f441da521857d2959c158f644780438
35	Nucleus region segmentation towards cervical cancer screening using AGMC-TU Pap-smear dataset	Nath N., Department of Life Sciences, New York Institute of Technology, 1855 Broadway, New York, 10023, NY, United States Datta A., Department of Pathology, Agartala Government Medical College, Agartala, Tripura (W), 799006, India worked with Bhowmik M.K., Roy S.D.	Bhowmik M.K., Roy S.D.	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056742808&doi=10.1145%2f3243250.3243258&partnerID=40&md5=d946eb99bfe23fc6860ce490a25d381c
36	Facial component-based blended facial expressions generation from static neutral face images	Bhattacharjee D.,Nasipuri M., Department of Computer Science and Engineering, Jadavpur	Saha P., De B.K.	2017-2018	1	JOINT RESEARCH PUBLICATION	IF131067 Department of Science and	https://www.scopus.com/inward/record.uri?eid=2-s2.0-

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		University, Kolkata, 700032, West Bengal, India Worked with Saha P., De B.K.				CATIO N	Technology, Government of Kerala	85035769565 &doi=10.1007 %2fs11042- 017-5436- 9&partnerID= 40&md5=3ddf 83ce5b405619 e11544c0efc2e d85
37	Friedelane, isolated from <i>Pouzolzia indica</i> Gaud. exhibits toxic effect against melanoma	Sarkar S., Wilson's School, Mollison Drive, Wallington, SM6 9JW, United Kingdom Sil Sarma I., Tripura State Forensic Science Laboratory, Narasingarh, Agartala, 799 015, India Worked with Maiti D., Singha A.K., Sarkar C., Manna K., Dinda B.	Maiti D., Singha A.K., Sarkar C., Manna K., Dinda B.	2017- 2018	1	JOINT RESE ARCH PUBLI CATIO N	Department of Biotechnology, Ministry of Science and Technology, India, DBT Indian Council of Medical Research, ICM R	https://www.sc opus.com/inwa rd/record.uri?e id=2-s2.0- 85044481508 &doi=10.1007 %2fs10616- 017-0174- 4&partnerID= 40&md5=66ae 4baf3c9dc64c 49ffd9d27f2e7 9b5
38	Energy budget and carbon footprint in a no-till and mulch based rice-mustard cropping system	Yadav G.S, Saha P., ICAR Research Complex for NEH Region, Tripura Centre, Lembucherra, 799 210, Tripura, India Yadav G.S., Lal R., Meena R.S.,	Datta M.	2017- 2018	1	JOINT RESE ARCH PUBLI CATIO N	Indian Council of Agricultural Research, ICA R	https://www.sc opus.com/inwa rd/record.uri?e id=2-s2.0- 85047494968 &doi=10.1016 %2fj.jclepro.2 018.04.173&p artnerID=40&

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Registrar (I/C)
Tripura University
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		<p>Carbon Management and Sequestration Centre, The Ohio State University, Columbus, 43210, Ohio, United States</p> <p>Das A., Babu S., ICAR Research Complex for NEH Region, Umiam, 793103, Meghalaya, India</p> <p>Meena R.S., Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, 221005, Uttar Pradesh, India</p> <p>Singh R., ICAR Research Complex for NEH Region, Sikkim Centre, Tadong, 737102, Sikkim, India Worked with Datta M.</p>						<p>md5=106f4da9df75092e9769740d6632c389</p>	
39	<p>Conservation tillage and mulching effects on the adaptive capacity of direct-seeded upland rice (<i>Oryza sativa</i> L.) to alleviate weed and moisture stresses in the</p>	<p>Yadav G.S., Tripura Centre, ICAR Research Complex for NEH Region, Tripura, India</p>	M.	Datta	2017-2018	1	JOINT RESEARCH PUBLICATION	<p>Indian Council of Agricultural Research</p> <p>Indian Council of Agricultural</p>	<p>https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041008404&doi=10.1080/2f03650340.2018.1423555</p>

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	North Eastern Himalayan Region of India	<p>Yadav G.S., Lal R., Meena R.S., Patil S.B., Saha P., Carbon Management and Sequestration Centre, Ohio State University, Columbus, OH, United States</p> <p>Das A., Babu S., ICAR Research Complex for NEH Region, Meghalaya, India Worked with Datta M.</p>					Research, ICAR R	 &partnerID=40&md5=d521f939452df58a7bb09ce5c7a1ad82
40	Preformulation in Drug Research and Pharmaceutical Product Development	<p>Shetty S., Fernandes C., Suares D., Shobhaben Pratapbhai Patel School of Pharmacy and Technology Management, SVKM's NMIMS, Mumbai, Maharashtra, India</p> <p>Maheshwari R., Tekade R.K., National Institute of Pharmaceutical Education and Research (NIPER)-Ahmedabad, Gandhinagar, Gujarat, India</p>	Acharya P.C.,	2017-2018	1	JOINT RESEARCH PUBLICATION	<p>Department of Science and Technology, Ministry of Science and Technology, India, □□□□ □□: #ECR/2016/001964, FRGS/1/2015/TK05/IMU/03/1, PDF/2016/003329</p> <p>Council of Scientific and Industrial Research,</p>	 https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082379778&doi=10.1016/j2fb978-0-12-814423-7.00001-0&partnerID=40&md5=ee018dacddf3c1dcab4ba09e5f45dd5


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 Registrar (i/c)
 Tripura University
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		Tekade R.K., Department of Pharmaceutical Technology, School of Pharmacy, International Medical University, Kuala Lumpur, Malaysia Worked with Acharya P.C.					India, CSIR: 02(0329)/17/E MR University Grants Committee, UG C: F.30- 376/2017 (BSR) Science and Engineering Research Board, SERB Ministry of Higher Education, Malaysia, MOH E	
41	Solubility and Solubilization Approaches in Pharmaceutical Product Development	Fernandes C., Suares D., Shetty S., Shobhaben Pratapbhai Patel School of Pharmacy and Technology Management, SVKM's NMIMS, Mumbai, Maharashtra, India Tekade R.K.,	Acharya P.C.	2017- 2018	1	JOINT RESE ARCH PUBLI CATIO N	Department of Science and Technology, Ministry of Science and Technology, India, □□□□ □□: PDF/2016/0033 29	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082378899&doi=10.1016%2fB978-0-12-814423-7.00015-0&partnerID=40&md5=424

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Registrar (I/C)
Tripura University
Suryamaninagar

		<p>National Institute of Pharmaceutical Education and Research (NIPER)-Ahmedabad, Gandhinagar, Gujarat, India</p> <p>Tekade R.K., Department of Pharmaceutical Technology, School of Pharmacy, International Medical University, Kuala Lumpur, Malaysia Worked with Acharya P.C.</p>					<p>Science and Engineering Research Board, SERB</p> <p>Science and Engineering Research Board, SERB</p> <p>Council of Scientific and Industrial Research, India, CSIR: 02(0329)/17/E MR</p> <p>University Grants Committee, UG C: F.30-376/2017 (BSR)</p> <p>Ministry of Higher Education, Malaysia, MOH E</p>	<p>95f0eb1c5373df988317f8de8d068</p>
42	Role of Salt Selection in Drug Discovery and Development	Vora A., Shobhaben Pratapbhai Patel School of	Acharya P.C., Marwein S.,	2017-2018	1	JOINT RESEARCH ARCH	Department of Science and	https://www.scopus.com/inwa


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 Registrar (I/C)
 Tripura University
 Suryamaninagar

		<p>Pharmacy & Technology Management, SVKM's NMIMS, Mumbai, Maharashtra, India</p> <p>Tekade R.K., National Institute of Pharmaceutical Education and Research (NIPER)-Ahmedabad, Gandhinagar, Gujarat, India</p> <p>Tekade R.K., Department of Pharmaceutical Technology, School of Pharmacy, International Medical University, Kuala Lumpur, Malaysia Worked with Acharya P.C., Marwein S., Ghosh R., Mishra B.</p>	Ghosh R., Mishra B.				<p>PUBLICATION</p> <p>Technology, Ministry of Science and Technology, India, □□□□ □□: #ECR/2016/001964, FRGS/1/2015/TK05/IMU/03/1, PDF/2016/003329</p> <p>Science and Engineering Research Board, SERB</p> <p>Ministry of Higher Education, Malaysia, MOHE</p>	<p>rd/record.uri?id=2-s2.0-85082378438&doi=10.1016%2fB978-0-12-814423-7.00013-7&partnerID=40&md5=818650ca56fd8abbced05add8b9b05c</p>
43	Rheology and Its Implications on Performance of Liquid Dosage Forms	<p>Suares D., Shetty S., Fernandes C., Shobhaben Pratapbhai Patel School of Pharmacy and Technology Management, SVKM's NMIMS, Mumbai, Maharashtra, India</p> <p>Tekade R.K.,</p>	Acharya P.C.	2017-2018	1	<p>JOINT RESEARCH PUBLICATION</p> <p>Department of Science and Technology, Ministry of Science and Technology, India, □□□□ □□: #ECR/2016/001964, FRGS/1/2</p>	<p>https://www.scopus.com/inward/record.uri?id=2-s2.0-85082378201&doi=10.1016%2fB978-0-12-814423-7.00016-2&partnerID=40&md5=e88e</p>	

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Registrar (I/C)
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		National Institute of Pharmaceutical Education and Research (NIPER)-Ahmedabad, Gandhinagar, Gujarat, India Tekade R.K., Department of Pharmaceutical Technology, School of Pharmacy, International Medical University, Kuala Lumpur, Malaysia Worked with Acharya P.C.					015/TK05/IMU /03/1, PDF/2016/003329 Science and Engineering Research Board, SERB Ministry of Higher Education, Malaysia, MOHE	028d127213b80f7add29d1c4cead
44	Physiologic Factors Related to Drug Absorption	Fernandes C., Shobhaben Pratapbhai Patel School of Pharmacy and Technology Management, SVKM's NMIMS, Mumbai, Maharashtra, India Tekade R.K., National Institute of Pharmaceutical Education and Research (NIPER)-Ahmedabad, Gandhinagar, Gujarat, India Tekade R.K.,	Acharya P.C., Mallik S., Mishra B.	2017-2018	1	JOINT RESEARCH PUBLICATION	Department of Science and Technology, Ministry of Science and Technology, India, □□□□ □□: #ECR/2016/001964, PDF/2016/003329 University Grants Committee, UGC: F.30-376/2017 (BSR)	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082377190&doi=10.1016/j.2fB978-0-12-814423-7.00004-6&partnerID=40&md5=090acf106572de0278f909ad4bba74f4

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		Department of Pharmaceutical Technology, School of Pharmacy, International Medical University, Kuala Lumpur, Malaysia Worked with Acharya P.C., Mallik S., Mishra B.					Science and Engineering Research Board, SERB Ministry of Higher Education, Malaysia, MOHE	
45	Detection of inflammation from temperature profile using arthritis knee joint datasets	Nath N., Department of Life Sciences, New York Institute of Technology (NYIT), New York, 10023, NY, United States Worked with Majumdar P., Das K., Bhowmik M.K.	Majumdar P., Das K., Bhowmik M.K.	2017-2018	1	JOINT RESEARCH PUBLICATION	Indian Council of Medical Research, ICMR: 5/7/1516/2016-RCH, 20/06/2017	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051110983&doi=10.1109/2fCHI.2018.00077&partnerID=40&md5=a0cab0000afd530f22c4b3fbde2b8f3b
46	Mixed-ligand complexes of zinc(II) with 1,1-dicyanoethylene-2,2-dithiolate and N-donor ligands: A combined experimental and theoretical study	Adhikari S., Department of Chemistry, Govt. Degree College, Dharmanagar, Tripura (N), India Laskar F., Advanced Level Institutional Biotech Hub, Karimganj	Singh M.K., Sutradhar S., Paul B.	2017-2018	1	JOINT RESEARCH PUBLICATION	Science and Engineering Research Board, SERB: SB/EMEQ - 014/2013, SERB/F/5537/2013-14 University	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046014619&doi=10.1016/2fj.molstruc.2018.03.073&partnerID=40&md5=ebe9d9

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Tripura University
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		<p>College, Karimganj, Assam, India</p> <p>Acharya S., Department of Botany, R. K. Mahavidyalaya, Unakoti Tripura, Kailashahar, Tripura, India</p> <p>Chakraborty D., Biswas S., Das A., Department of Chemistry, Ramthakur College, Agartala, Tripura (W), India</p> <p>Roy S., Department of Chemistry, National Institute of Technology (NIT) Agartala, 799046, Tripura, India</p> <p>Frontera A., Departament de Quimica, Universitat de Les Illes Balears, Crta. de Valldemossa km 7.5, Palma de Mallorca, 07122, Balears, Spain Worked with Singh M.K., Sutradhar S., Paul B.</p>					<p>Grants Commission- Nepal, UGC: F.5-333/2015 16/MRP/NERO /1074</p>	<p>942f07f6cf11a fdec4004ee06 6</p>
47	A compact planar UWB MIMO diversity	Banerjee J.,	Karmakar A.	2017- 2018	1	JOINT RESE		<p>https://www.scopus.com/inwa</p>

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	antenna with Hilbert fractal neutralization line for isolation improvement and dual band notch characteristic	Department of ECE, SOET, Adamas University, Kolkata, India Ghatak R., Department of ECE, National Institute of Technology, Durgapur, West Bengal, India Worked with Karmakar A.				ARCH PUBLICATION		rd/record.uri?eid=2-s2.0-85050943961&doi=10.1109/2fEDCT.2018.8405070&partnerID=40&md5=4d257c353357df59bfa834c7111a93e3
48	Design of a fractal based wideband antipodal vivaldi antenna with improved radiation characteristics for biomedical applications	Saha A., Bhawal A., Department of Applied Electronics and Instrumentation Engineering, Netaji Subhash Engineering College, Kolkata, India Worked with Karmakar A., Bhattacharjee A.	Karmakar A., Bhattacharjee A.	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067131563&doi=10.1109/2fICRCICN.2018.8718737&partnerID=40&md5=162229ee19a75f9cc06a557de5db2a75
49	Block Synchronization for Diffusion-based Molecular Communication Systems	Mukherjee M., Lv Y. Guangdong Provincial Key Lab of Petrochemical Equipment Fault Diagnosis, Guangdong University of	Bhowmik B.B.	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066014786&doi=10.1109/2fANTS.201


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		Petrochemical Technology, China Yilmaz H.B., Department of Network Engineering, Polytechnic University of Catalonia, Barcelona, 08034, Spain Worked with Bhowmik B.B.						8.8710099&partnerID=40&md5=403bccf43e7a24304c02cd0cle 61d08b
50	Ionospheric variations over Chinese EIA region using foF 2 and comparison with IRI-2016 model	Rao S.S., Pandey R. Department of Physics, MLS University, Udaipur, 313001, India Worked with Chakraborty M.	Chakraborty M.	2017-2018	1	JOINT RESEARCH PUBLICATION	Council of Scientific and Industrial Research, India, CSIR: 954)13/EMR-II Bangladesh Council of Scientific and Industrial Research, BCSIR	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046143318&doi=10.1016/j.asr.2018.04.009&partnerID=40&md5=b6c62aeac96d55373946993fbd37703d
51	Improving variable neighborhood search to solve the traveling salesman problem	Chatterjee A., Department of Statistics, University of Calcutta, India Dewanji A., Applied Statistics Unit, Indian Statistical Institute, India Worked with Hore S.	Hore S.	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044931620&doi=10.1016/j.asoc.2018.03.048&partnerID=40&md5=...


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								5=40fa07be88 74bd06ca103c 0366b69731
52	Designing of Ground-Truth-Annotated DBT-TU-JU Breast Thermogram Database Toward Early Abnormality Prediction	Majumdar G., Datta D. Agartala Government Medical College (AGMC), Regional Cancer Centre, Tripura, 799006, India Bhattacharjee D., Department of Computer Science and Engineering, Jadavpur University, Kolkata, 700032, India Worked with Bhowmik M.K., Gogoi U.R., Ghosh A.K.	Bhowmik M.K., Gogoi U.R., Ghosh A.K.	2017-2018	1	JOINT RESE ARCH PUBLI CATION	Department of Biotechnology, Ministry of Science and Technology, India, DBT: BT/533/NE/TB P/2013, F.4 (5-2)/AGMC/Academic/Project/Research/2007/Sub-I/8199-8201 Department of Science and Technology, Government of Kerala: IF150970 Department of Biotechnology, Government of West Bengal, DBT-WB	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028414431&doi=10.1109/JBHI.2017.2740500&partnerID=40&mid5=bb5d8b03e06a7814fd9dae95203f15ad
53	SOI waveguide-based biochemical sensors	Rifat A.A., Nonlinear Physics Centre, Research School	Bhowmik B.B.	2017-2018	1	JOINT RESE ARCH		https://www.scopus.com/inward/record.uri?e

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		of Physics and Engineering, Australian National University, Acton, 2601, ACT, Australia Ahmed R., Nanotechnology Laboratory, School of Engineering, University of Birmingham, Birmingham, B15 2TT, United Kingdom Worked with Bhowmik B.B.				PUBLICATION		id=2-s2.0-85053649372&doi=10.1007%2f978-3-319-76556-3_16&partnerID=40&md5=57ba7528dee5efd1e02934417d51e89d
54	Effects of doping of mercury atom(s) on optoelectronic properties of binary zinc chalcogenides - A first principle based theoretical investigation	Sarkar U., Department of Physics, Government Degree College, Kamalpur, 799285, Tripura, India Bhattacharjee R., Department of Physics, Women's College, Agartala, 799001, Tripura, India Worked with Debbarma M., Sarkar U., Debnath B., Ghosh D., Chanda S., Chattopadhyaya S., Bhattacharjee R.	Debbarma M., Sarkar U., Debnath B., Ghosh D., Chanda S., Chattopadhyaya S., Bhattacharjee R.	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044094403&doi=10.1016%2fj.jallcom.2018.03.093&partnerID=40&md5=796a8860e60622b88b344fdec703a22a
55	Effect of stand structure and aspect on the regeneration of banj oak (Quercus	Singh V., Department of Forestry, Dolphin PG Institute of Biomedical and Natural	Dasgupta S.	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-

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	leucotrichophora A. Camus) forest along disturbance in Garhwal Himalaya, Uttarakhand, India	Sciences, Dehradun, Uttarakhand, 248007, India Chauhan D.S. Department of Forestry and Natural Resources, HNBGU, Srinagar Garhwal, Uttarakhand, 246174, India Worked with Dasgupta S.				CATION		85061449125 &doi=10.2478%2ffsmu-2018-0003&partnerID=40&md5=f88d62256f19fa05cb51ffee7cd54f21
56	Influence of doping of mercury atom(s) on optoelectronic properties of binary cadmium chalcogenides - A density functional theory based investigation with different exchange-correlation functionals and including spin-orbit coupling	Sarkar U., Department of Physics, Government Degree College, Kamalpur, 799285, Tripura, India Bhattacharjee R., Department of Physics, Women's College, Agartala, 799001, Tripura, India Worked with Debbarma M., Sarkar U., Debnath B., Chanda S., Ghosh D., Bhattacharjee R., Chattopadhyaya S.	Debbarma M., Sarkar U., Debnath B., Chanda S., Ghosh D., Bhattacharjee R., Chattopadhyaya S.	2017-2018	1	JOINT RESEARCH PUBLICATION	Department of Science and Technology, Government of Rajasthan	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044103184&doi=10.1016%2fj.cap.2018.03.010&partnerID=40&md5=785071ae6adfb17598a073c84fecac9f
57	Use of ion pair amphiphile as an alternative of natural phospholipids in enhancing the stability and anticancer activity of oleanolic acid	Karmakar G., Nahak P., Roy B., Guha P., Department of Chemistry, University of North Bengal, Darjeeling, 734013, West Bengal, India	Nath R.K.	2017-2018	1	JOINT RESEARCH PUBLICATION	Department of Science and Technology, Government of Kerala: SR/S1/PC-32/2011	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042674905&doi=10.1016%2fj.colsurfa

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	loaded nanostructured lipid carriers	<p>Tsuchiya K., Department of Pure and Applied Chemistry, Tokyo University of Science, 2641 Yamazaki, Noda, 278-8510, Tokyo, Japan</p> <p>Karmakar G., Nahak P., Roy B., Guha P., Panda A.K., Department of Chemistry and Chemical Technology, Vidyasagar University, Midnapore, 721102, West Bengal, India Worked with Nath R.K.</p>						2018.02.039&partnerID=40&md5=991ee8faa08e99a3f319a272c6ddc8e5
58	A compact printed UWB monopole antenna with triple band notch characteristic	<p>Banerjee J., Dept. of ECE, Adamas University, Kolkata, India Saha A., Dept. of AEIE, Netaji Subhash Engineering College, Kolkata, India Worked with Karmakar A., Chakraborty P., Debnath P., Das P., Bhattacharjee A.</p>	<p>Karmakar A., Chakraborty P., Debnath P., Das P., Bhattacharjee A.</p>	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051085346&doi=10.1109/JCMT.2018.8354590&partnerID=40&md5=d66b03b157a7eb2ff46579b2b3d30d77


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59	Simultaneous sequestration of nitrate and phosphate from wastewater using a tailor-made bacterial consortium in biofilm bioreactor	Saha A., Chanda C., Barat P., Centre of Excellence in Environmental Technology and Management, Maulana Abul Kalam Azad University of Technology, West Bengal, India Mukherjee P., Bhaumik M., Ghosh M., Sharmin J., Datta P., Banerjee S., Department of Biotechnology, Maulana Abul Kalam Azad University of Technology, West Bengal, India Worked with Bhushan S., Thakur A.R., Gantayet L.M.	Bhushan S., Thakur A.R., Gantayet L.M.	2017-2018	1	JOINT RESEARCH PUBLICATION	Indian Council of Agricultural Research, ICAR Department of Biotechnology, Ministry of Science and Technology, India, DBT Board of Research in Nuclear Sciences, BRNS Department of Atomic Energy, Government of India, □□□□ Ministry of Human Resource Development, MHRD	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85036519713&doi=10.1002%2fjctb.5487&partnerID=40&md5=b057958b8a4c4d118e705fbaa9a1481b
60	Physicochemical Characterization of Chrysin-Derivative-Loaded Nanostructured Lipid Carriers with Special	Karmakar G., Nahak P., Guha P., Department of Chemistry, University of North Bengal,	Nath R.K., Bhowmik S., De U.C.	2017-2018	1	JOINT RESEARCH PUBLICATION	Department of Science and Technology, Government of Kerala:	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045385964

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Registrar (I/C)
Jalpaiguri University
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	Reference to Anticancer Activity	<p>Darjeeling, 734013, West Bengal, India</p> <p>Chettri P., Kumar A., Department of Biotechnology, University of North Bengal, Darjeeling, 734013, West Bengal, India</p> <p>Tsuchiya K., Torigoe K., Department of Pure and Applied Chemistry, Tokyo University of Science, 2641 Yamazaki, Noda, Tokyo, 278-8510, Japan</p> <p>Nag K., Department of Biochemistry, Memorial University of Newfoundland, St. John's, NL, Canada</p> <p>Panda A.K., Department of Chemistry and Chemical Technology, Vidyasagar University, Midnapore, 721102, West Bengal, India</p> <p>Worked with Nath R.K., Bhowmik S., De U.C.,</p>					<p>SR/S1/PC-32/2011</p> <p>Department of Biotechnology, Government of West Bengal, DBT-WB: BT/526/NE/TB P/2013</p>	<p>doi=10.1002/%2fjdsde.12033</p> <p>partnerID=40&md5=c09a8ef822354ac9830e22a856460</p> <p>73c</p>
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61	Dynamics of mobile banking adoption behavior in North Eastern states of India	<p>Kumar A., School of Management, Campus 7, KIIT University, Bhubaneswar, Odisha, India</p> <p>Debnath N., KIIT University, Bhubaneswar, Odisha, India</p> <p>Devadutta K., School of Computer Engineering, KIIT University Bhubaneswar, Odisha, India</p> <p>Singh G., School of Management, KIIT University Bhubaneswar, Odisha, India</p> <p>Worked with Debnath N.</p>	Debnath N.	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045919412&partnerID=40&md5=6d0bd3e999eeb3ee78da89b6dfd02a
62	Factors affecting mobile banking adoption behavior in north eastern states of India	<p>Kumar A., School of Management, Campus 7, KIIT University Bhubaneswar, Odisha, India</p> <p>Debnath N.,</p>	Debnath N.	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045878667&partnerID=40&md5=e39ba42d5da9e2dbe

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		KIIT University, Bhubaneswar, Odisha, India Worked with Debnath N.						79c38b8926b2 2b8
63	Role of PEG 2000 in the surface modification and physicochemical characteristics of pyrazinamide loaded nanostructured lipid carriers	Karmakar G., Nahak P., Guha P., Roy B. Department of Chemistry, University of North Bengal, Darjeeling, 734 013, West Bengal, India Panda A.K., Department of Chemistry and Chemical Technology, Vidyasagar University, Midnapore, 721 102, West Bengal, India Worked with Nath R.K.	Nath R.K.	2017- 2018	1	JOINT RESE ARCH PUBLI CATIO N	Department of Science and Technology, Ministry of Science and Technology, India, □□□□ □□: SR/S1/PC- 32/2011	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044753836&doi=10.1007%2fs12039-018-1448-x&partnerID=40&md5=65210686e1c2488d80ddeab760f5da8b
64	Investigating the Role of Oxygen Vacancies and Lattice Strain Defects on the Enhanced Photoelectrochemical Property of Alkali Metal (Li, Na, and K) Doped ZnO Nanorod Photoanodes	Karmakar K., Mandal K., Department of Condensed Matter Physics and Material Sciences, S. N. Bose National Centre for Basic Sciences, Block JD, Sector-III, Salt Lake, Kolkata, 700 106, India Sarkar A.,	Khan G.G.	2017- 2018	1	JOINT RESE ARCH PUBLI CATIO N	Science and Engineering Research Board Department of Science and Technology: 2015/ IF150237, IFA1 2-ENG-09	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042195145&doi=10.1002%2fcelc.20180097&partnerID=40&md5=f5b2b88149857e0085410d831bf649cc


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 Tripura University
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		Centre for Research in Nanoscience and Nanotechnology, University of Calcutta, Block-JD2, Sector-III, Salt Lake, Kolkata, 700 106, India Worked with Khan G.G.,						
65	Electrical switching behaviour of a metalloporphyrin in Langmuir-Blodgett film	Chakraborty S., Department of Physics, NIT Agartala, Jiraniya, West Tripura, 799046, Tripura, India Khan A., Inamuddin, Chemistry Department, Faculty of Science, King Abdulaziz University, Jeddah, 21589, Saudi Arabia Khan A., Inamuddin, Centre of Excellence for Advanced Materials Research, King Abdulaziz University, Jeddah, 21589, Saudi Arabia Worked with Dey B., Chakraborty S., Bhattacharjee D., Hussain S.A.	Dey B., Chakraborty S., Bhattacharjee D., Hussain S.A.	2017-2018	1	JOINT RESEARCH PUBLICATION	Department of Science and Technology, Ministry of Science and Technology, India, DST: EMR/2014/000 234 University Grants Committee, UGC	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041487783&doi=10.1016/j2fj.orgel.2017.12.038&partnerID=40&md5=9c2a211fd63db04252025979a87bfb9a
66	Controlling STATCOM by full order state feedback	Chakraborty A.K.,	Nandi C.	2017-2018	1	JOINT RESEARCH		https://www.scopus.com/inward/record.uri?e

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	controller for stability improvement	National Institute of Technology, Agartala, India Worked with Nandi C.				PUBLICATION		id=2-s2.0-85060649812&doi=10.4018%2f978-1-5225-3935-3.ch007&partnerID=40&md5=e18695e9bfdcfb8f4cc44d8d2725671c
67	Impact of homesteads bamboo Nurseries on the livelihood-a case from North and West Tripura, India	Kaushik P.K., Centre for Forest based Livelihood and Extension, Agartala, 799 012, India Tripathi K.M., Krishi Vigyan Kendra, Bulandshahr, Uttar Pradesh, 203 001, India Worked with Selvan T., Das Chowdhury A.	Selvan T., Das Chowdhury A.	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053024601&partnerID=40&md5=cd64de58ef0134b7527ead46fec033ce
68	Abnormality analysis of pcg signal using vmd and mlp neural network	Singh S.A., Verma A., Chhetry S., Department of ECE, NERIST, Nirjuli, Arunachal-Pradesh, India Worked with Majumder S.	Majumder S.	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050680156&doi=10.1109%2fISED.2017.8303911&partnerID=40&md5=e77effa218


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69	Modified aggregation pattern of cresyl violet acetate adsorbed on nano clay mineral layers in Langmuir Blodgett film	Banik S., Department of Physics, Women's College, Agartala, 799001, Tripura, India Worked with Banik S., Hussain S.A., Bhattacharjee D.	Banik S., Hussain S.A., Bhattacharjee D.	2017- 2018	1	JOINT RESE ARCH PUBLI CATIO N	Council for Scientific and Industrial Research, South Africa, CSIR: 03(1146)/09/E MR- II, SE/FTP/PS- 54/2007 Department of Science and Technology, Republic of South Africa, DST	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85038893442&doi=10.1016%2Fj.jphotochem.2017.12.013&partnerID=40&md5=a23a487ae7c13122242866e67dea7c2d
70	A novel humanitarian technology for early detection of cervical neoplasia: ROI extraction and SR detection	Das A., Dept. of Computer Sc. and Engineering, Aliah University, Kolkata, India Worked with Choudhury A.	Choudhury A.	2017- 2018	1	JOINT RESE ARCH PUBLI CATIO N	University Grants Committee, UG C	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047556095&doi=10.1109%2FR10-HTC.2017.8288998&partnerID=40&md5=02ab61ec5c40523a1d179385dfefe63f

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Registrar (I/C)
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71	Fractal feature based early breast abnormality prediction	Das D.H., Department of Information Technology, Bir Bikram Memorial College, Tripura, India Worked with Roy A., Gogoi U.R., Bhowmik M.K.	Roy A., Gogoi U.R., Bhowmik M.K.	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047547267&doi=10.1109/%2fR10-HTC.2017.8288896&partnerID=40&md5=0e492f6aleca19d97127340ba9b4c183
72	Gauss-seidel method based voltage security analysis of distribution system	Chakraborty K., Department of Electrical Engineering, Tripura Institute of Technology, India Worked with Deb G.	Deb G.	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85043277969&doi=10.11591/%2fijece.v8i1.pp43-51&partnerID=40&md5=e60db525f6d0cfcfa41f2ddab4ee7b27
73	Tuning of electronic band gaps and optoelectronic properties of binary	Sarkar U., Department of Physics, Government Degree	Debnath B., Sarkar U., Debbarma M., Bhattacharjee	2017-2018	1	JOINT RESEARCH PUBLICATION	Department of Science and Technology,	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85043277969&doi=10.11591/%2fijece.v8i1.pp43-51&partnerID=40&md5=e60db525f6d0cfcfa41f2ddab4ee7b27

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Registrar (I/C)
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	strontium chalcogenides by means of doping of magnesium atom(s)- a first principles based theoretical initiative with mBJ, B3LYP and WC-GGA functionals	College, Kamalpur, 799285, Tripura, India Bhattacharjee R., Department of Physics, Women's College, Agartala, 799001, Tripura, India Worked with Debnath B., Sarkar U., Debbarma M., Bhattacharjee R., Chattopadhyaya S.	R., Chattopadhyaya S.,			CATION	Government of Rajasthan	id=2-s2.0-85034033588&doi=10.1016/j.physb.2017.10.014&partnerID=40&md5=2b521e4327d029452f4cc36540905a05
74	Modification of band gaps and optoelectronic properties of binary calcium chalcogenides by means of doping of magnesium atom(s) in rock-salt phase- a first principle based theoretical initiative	Sarkar U., Department of Physics, Government Degree College, Kamalpur, 799285, Tripura, India Bhattacharjee R., Department of Physics, Women's College, Agartala, 799001, Tripura, India Worked with Debnath B., Sarkar U., Debbarma M., Chattopadhyaya S., Bhattacharjee R.,	Debnath B., Sarkar U., Debbarma M., Chattopadhyaya S., Bhattacharjee R.,	2017-2018	1	JOINT RESEARCH PUBLICATION	Department of Science and Technology, Government of Rajasthan	https://www.scopus.com/inward/record.uri?id=2-s2.0-85032922973&doi=10.1016/j.jssc.2017.10.028&partnerID=40&md5=18a32321b00d1bfc8ab99a469bcefc8a
75	Hybrids of Steroid and Nitrogen Mustard as Antiproliferative Agents: Synthesis, in Vitro Evaluation and in Silico Inverse Screening	Acharya P.C., Bansal R., University Institute of Pharmaceutical Sciences, Panjab University, Chandigarh, 160014, India	Acharya P.C.	2017-2018	1	JOINT RESEARCH PUBLICATION	University Grants Commission - Sri Lanka, UGC	https://www.scopus.com/inward/record.uri?id=2-s2.0-85030327341&doi=10.1055/2fs-0043-

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		Kharkar P.S., Department of Pharmaceutical Chemistry, SPP School of Pharmacy and Technology Management, SVKM'S NMIMS, Mumbai, India Worked with Acharya P.C.						118538&partnerID=40&md5=91a37fc67c9ce0790b1b0bd38f1d02a9
76	Determination of the Global-Average Charge Moment of a Lightning Flash Using Schumann Resonances and the LIS/OTD Lightning Data	Boldi R., College of Natural and Health Sciences, Zayed University, Dubai, United Arab Emirates Williams E., Parsons Laboratory, Massachusetts Institute of Technology, Cambridge, MA, United States Worked with Guha A.	Guha A.	2017- 2018	1	JOINT RESE ARCH PUBLI CATIO N		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040199832&doi=10.1002%2f2017JD027050&partnerID=40&md5=362b7d8076c7d3e9fa2607fa0af9e969
77	Degraded products of stem bromelain destabilize aggregates of β -amyloid peptides involved in Alzheimer's disease	Mukherjee D., Bhattacharjee P., Bhattacharya R., Bhattacharyya D., Dutta A.K., Division of Structural Biology and Bioinformatics, CSIR- Indian Institute of Chemical Biology 4, Raja S.C. Mallick Road,	Bhattacharyya D.	2017- 2018	1	JOINT RESE ARCH PUBLI CATIO N	SR/CSI/07/2009 Department of Science and Technology, Ministry of Science and Technology, India, DST	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058035301&doi=10.18520%2fcs%2fv115%2fi11%2f2133-2141&partnerID=40&md5=8

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		Jadavpur, Kolkata, 700 032, India Worked with Bhattacharyya D.						0e13bdd270b8 48047504ebc2 06cab0b
78	Multiset ideal topological spaces and local functions	Shravan K., Mathematical Sciences Division, Institute of Advanced Study in Science and Technology, Guwahati, Assam, 781035, India Worked with Tripathy B.C.	Tripathy B.C.	2017-2018	1	JOINT RESE ARCH PUBLI CATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057183112&doi=10.4067/2fS0716-09172018000400699&partnerID=40&md5=ac1d42369b85590602b276e2981089b7
79	Effect of Electric Field on J-aggregate in Ultrathin Films	Deb S., Department of Physics, Women's College, Agartala, 799001, Tripura, India Worked with Debnath P., Dey B., Bhattacharjee D., Hussain S.A.	Debnath P., Dey B., Bhattacharjee D., Hussain S.A.	2017-2018	1	JOINT RESE ARCH PUBLI CATION	Department of Science and Technology, Ministry of Science and Technology, India, □□□□ □□: SR/FST/PSI-191/2014	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055575531&doi=10.1016/2fj.matpr.2017.09.229&partnerID=40&md5=4d58a968a83b6426830e31a36207a096
80	Effect of DNA in controlling the H-dimeric sites of Nile	Debnath C., Department of Physics, MBB College, West	Shil A., Hussain S.A., Bhattacharjee D.	2017-2018	1	JOINT RESE ARCH PUBLI	Council of Scientific and Industrial Research,	https://www.scopus.com/inward/record.uri?eid=2-s2.0-


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	Blue Chloride (NBC) in ultra-thin film	Tripura, 799004, Agartala, India Worked with Shil A., Hussain S.A., Bhattacharjee D.,				CATION	India, CSIR: 03(1146)/09/E MR-II, SE/FTP/PS-54/2007 University Grants Committee, UG C: F.5-378/2014-15/MRP/NERO/2235 Department of Science and Technology, Government of West Bengal, DST	8505553270 &doi=10.1016%2fj.matpr.2017.09.240&partnerID=40&md5=98760975122c5e827d03f627d821f558
81	Red Mud and Its Applicability in Fluoride Abatement	Sahoo A., Department of Chemical Engineering, National Institute of Technology Rourkela, Rourkela, 769008, India Worked with Nath H.	Nath H.	2017-2018	1	JOINT RESEARCH PUBLICATION	Ministry of Environment and Forests, MoEF	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055525265 &doi=10.1016%2fj.matpr.2017.09.220&partnerID=40&md5=dbb66c868c5cb157fb4b3ff7f4925350


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82	Metachromasy of a water soluble pthalocyanine dye in the solutions and deposited Langmuir films	Debnath C., Department of Physics, MBB College, Agartala, 799004, West Tripura, India Worked with Shil A., Hussain S.A., Bhattacharjee D.	Shil A., Hussain S.A., Bhattacharjee D.	2017- 2018	1	JOINT RESE ARCH PUBLI CATIO N	University Grants Committee, UG C: F.5- 378/2014- 15/MRP/NERO /2235 Department of Science and Technology, Ministry of Science and Technology, India, □□□□ □□: EMR/2014/000 234	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055518648&doi=10.1016%2fj.matpr.2017.09.239&partnerID=40&md5=87386af37bec789bc1a719b5b707ff55
83	Study of aggregation behavior of water insoluble metalloporphyrin (Zn) in LB film	Banik S., Department of Physics, Women's College, Agartala, 799001, Tripura, India Worked with Saha M., Hussain S.A., Bhattacharjee D.	Saha M., Hussain S.A., Bhattacharjee D.	2017- 2018	1	JOINT RESE ARCH PUBLI CATIO N	Council of Scientific and Industrial Research, India, CSIR: 03(1146)/09/E MR- II, SE/FTP/PS- 54/2007 Department of Science and Technology, Government of	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055485068&doi=10.1016%2fj.matpr.2017.09.226&partnerID=40&md5=4ebebcbfa19e123920d8fb5041287cfc


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84	Effect of nano clay platelets on the hybrid monolayer of a cationic oxazine dye: In-situ Brewster Angle Microscopic (BAM) study	Banik S., Department of Physics, Women's College, Agartala, 799001, Tripura, India Worked with Saha M.,Hussain S.A.,Bhattacharjee D.	Saha M.,Hussain S.A.,Bhattacharjee D.	2017- 2018	1	JOINT RESE ARCH PUBLI CATIO N	West Bengal, DST Council of Scientific and Industrial Research, India, CSIR: 03(1146)/09/E MR- II, SE/FTP/PS- 54/2007 Department of Science and Technology, Government of West Bengal, DST	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055480024&doi=10.1016%2fj.matpr.2017.09.241&partnerID=40&md5=217b10b16497165008d6e6e0a397f6
85	Effects of Various Factors on Performance of MAC Protocols for Underwater Wireless Sensor Networks	Sarma N., Department of Computer Science and Engineering, Tezpur University, India Worked with Roy A.	Roy A.	2017- 2018	1	JOINT RESE ARCH PUBLI CATIO N		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055472810&doi=10.1016%2fj.matpr.2017.09.228&partnerID=40&md5=6bb03922332cd9826bad35b123cb512a
86	Effect of microstructural features on stress	Ghosh K.S., Department of Metallurgical and	Kumar Rout P.	2017- 2018	1	JOINT RESE ARCH		https://www.scopus.com/inward/record.uri?e

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	corrosion cracking behaviour of 7017 and 7150 aluminium alloy	Materials Engineering, NIT, Durgapur, West Bengal, India Worked with Kumar Rout P.				PUBLICATION		id=2-s2.0-85053424304&doi=10.1016%2Fj.matpr.2017.11.462&partnerID=40&md5=6ea671916c4974b38640b030fca19279
87	RASIT: Region shrinking based Accurate Segmentation of Inflammatory areas from Thermograms	Bhattacharjee D., Department of Computer Science and Engineering, Jadavpur University, West Bengal, India Worked with Bardhan S., Bhowmik M.K., Debnath T.	Bardhan S., Bhowmik M.K., Debnath T.	2017-2018	1	JOINT RESEARCH PUBLICATION	Indian Council of Medical Research, ICMR: 5/7/1516/2016-RCH Department of Biotechnology, Government of West Bengal, DBT-WB: 03/03/2014, BT/533/NE/TBP/2013	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053406989&doi=10.1016%2Fj.bbe.2018.07.002&partnerID=40&md5=765827d4cd29cfd591a17e83bda6e11d
88	Breast blood perfusion (BBP) model and its application in differentiation of malignant and benign breast	Pramanik S., Banik D., Bhattacharjee D., Nasipuri M., Department of Computer Science and Engineering, Jadavpur University, Kolkata, India Worked with	Bhowmik M.K.	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048640453&doi=10.1007%2F978-981-10-8240-

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89	Natural Dyes and their Effect on Efficiency of TiO2 based DSSCs: A Comparative Study	Singh L.K., Department of Physics, ADP College, Nagaon, 782002, Assam, India Worked with Koiry B.P.	Koiry B.P.	2017- 2018	1	JOINT RESE ARCH PUBLI CATIO N	Department of Science and Technology, Ministry of Science and Technology, India, □□□□ □□	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048379715&doi=10.1016/j.matpr.2017.09.208&partnerID=40&md5=ee90c785d12200d803713b1a6d639abe
90	Bioleaching of Manganese from mining waste materials	Ghosh S., Bioengineering and Bio Mineral Processing Laboratory, Centre for Biotechnology, Siksha 'o' Anusandhan University, Bhubaneswar, Odisha, India Workwed with	Das A.P.	2017- 2018	1	JOINT RESE ARCH PUBLI CATIO N	Department of Biotechnology, Government of West Bengal, DBT- WB: BT?PR7454/B CE/8/949/2012	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047882302&doi=10.1016/j.matpr.2017.11.459&partnerID=40&md5=ee90c785d12200d803713b1a6d639abe

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		Das A.P.						d5=4c02e4911afe0e171ac6c6beb6d5252f
91	Generalised closed sets in multiset topological space	Shravan K., Mathematical Sciences Division, Institute of Advanced Study in Science and Technology, Paschim Boragaon, Guwahati, Assam, 781035, India Worked with Tripathy B.C.	Tripathy B.C.	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047791056&doi=10.4067%2fS0716-09172018000200223&partnerID=40&md5=48ab8422fb83236c05276f20f6fd767c
92	Synthesis of BiFeO ₃ nanoparticle anchored TiO ₂ -BiFeO ₃ nano-heterostructure and exploring its different electrochemical aspects as electrode	Sarkar A., Gopal Khan G., Centre for Research in Nanoscience and Nanotechnology, University of Calcutta, Sector-III-Salt Lake, Kolkata, 700106, India Worked with Gopal Khan G.	Gopal Khan G.	2017-2018	1	JOINT RESEARCH PUBLICATION	Department of Science and Technology, Ministry of Science and Technology, India, □□□□ □□: SB/FTP/ETA-0142/2014 Science and Engineering Research Board, SERB	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047217137&doi=10.1016%2fj.matpr.2017.11.016&partnerID=40&md5=6d7b00231b40664a841b692998a34458


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93	Ene cyclization reaction in heterocycle synthesis	Saikia A.K., Department of Chemistry, Indian Institute of Technology Guwahati, Guwahati, 781039, India Worked with Saha P.	Saha P.	2017-2018	1	JOINT RESEARCH PUBLICATION	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046009152&doi=10.1039%2fc8ob00429c&partnerID=40&md5=13856ec4015e01d0375b7f46abd82ae7
94	Collaboration and knowledge sharing via facebook groups: Analysis of postings of library and information science community	Das K., National Institute of Technology Rourkela, 769 008, Odisha, India Worked with Mahapatra R.K.	Mahapatra R.K.	2017-2018	1	JOINT RESEARCH PUBLICATION	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044318913&doi=10.14429%2fdjlit.38.2.10949&partnerID=40&md5=0cef6669822316b3af0e26b1c8efe8a3
95	Fine spectrum of the upper triangular matrix $U(r, 0, 0, s)$ over the sequence spaces c_0 and c	Das R., Department of Mathematics, Sikkim Manipal Institute of Technology, Sikkim, 737136, India Worked with Tripathy B.C.	Tripathy B.C.	2017-2018	1	JOINT RESEARCH PUBLICATION	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85043985958&doi=10.4067%2fs0716-091720180001

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96	Effect of clay in controlling the non-fluorescence H-dimeric states of a cationic dye Nile Blue Chloride (NBC) in hybrid Langmuir-Blodgett (LB) film	Debnath C., Department of Physics, MBB College, Agartala, 799004, Tripura, India Worked with Debnath C., Shil A., Hussain S.A., Bhattacharjee D.	Debnath C., Shil A., Hussain S.A., Bhattacharjee D	2017- 2018	1	JOINT RESE ARCH PUBLI CATIO N	Department of Science and Technology, Ministry of Science and Technology, India, □□□□ □□ Council of Scientific and Industrial Research, India, CSIR: 03(1146)/09/E MR- II, SE/FTP/PS- 54/2007 University Grants Committee, UG C: F.5- 378/2014- 15/MRP/NERO /2235	https://www.scopus.com/inward/record.uri?id=2-s2.0-85034834397&doi=10.1016%2fj.cplett.2017.11.038&partnerID=40&md5=07579c0cc0c7e2e3099de5836e7fccab
97	Parking places discovery and	Devi M.,	Roy A., Paul J., Baidya R.	2017- 2018	1	JOINT RESE		https://www.scopus.com/inward/record.uri?id=2-s2.0-85034834397&doi=10.1016%2fj.cplett.2017.11.038&partnerID=40&md5=07579c0cc0c7e2e3099de5836e7fccab


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	reservation using vehicular ad hoc networks	Department of Computer Science and Engineering, Tezpur University, Tezpur, 784028, Assam, India Worked with Roy A., Paul J., Baidya R.				ARCH PUBLICATION		rd/record.uri?eid=2-s2.0-85033701228&doi=10.1007%2f978-981-10-4765-7_72&partnerID=40&md5=6bf905844a9b1380512a508d36470b6c
98	p-J-generator and pl-J-generator in bitopology	Acharjee S., Department of Mathematics, Pragjyotish College, Guwahati, 781009, India Worked with Tripathy B.C.	Tripathy B.C.	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85021810459&doi=10.5269%2fbspm.v36i2.29377&partnerID=40&md5=3ec1bdf501c2aa2d506f6d4b5f7ec580
99	Realization of Basic Gates Using Universal Gates Using Quantum-Dot Cellular Automata	Dutta P., Department of Computer and System Science, Visva-Bharati University, West Bengal, India Saha A.K., Department of Mathematics, NIT	Pal J.	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063250854&doi=10.1007%2f978-981-10-6890-4_53&partnerI


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		Agartala, Barjala, Tripura, India Worked with Pal J.						D=40&md5=45bc81df4e8bb1e5956bd5c0ee4b307e
100	UMB MIMO Slot antenna with minkowski fractal shaped isolators for isolation enhancement	Saha A., Department of AEIE, Netaji Subhash Engineering College, Kolkata, India Huda S., Department of ECE, Camellia Institute of Technology, Kolkata, India Worked with Worked with Debnath P., Karmakar A.	Debnath P., Karmakar A.	2017-2018	1	JOINT RESE ARCH PUBLI CATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056270959&doi=10.2528%2fPIERM18090506&partnerID=40&md5=8ec9b2c0f9c159fd14a136c12397b6e6
101	Non-ionic fluorinated amphiphilic block copolymer via RAFT polymerization and their application as surfactant in emulsion polymerization	Singh L.K., Anandaram Dhekial Phookan College, Gauhati University, Nagaon, 782002, Assam, India Chakraborty A., Rubber Technology Centre, IIT Kharagpur, Kharagpur, West Bengal, 721302, India Worked with Koiry B.P., Nath R.K.	Koiry B.P., Nath R.K.	2017-2018	1	JOINT RESE ARCH PUBLI CATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055534832&doi=10.1016%2fj.matpr.2017.09.199&partnerID=40&md5=03aaadc8944b260f616af3c015f5fd2f
102	Simultaneous estimation of amlodipine besylate	Debnath M.,	Kumar A., Kumar Singh M.	2017-2018	1	JOINT RESE ARCH		https://www.scopus.com/inward/record.uri?e


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	and nebivolol hydrochloride in pharmaceutical tablets formulation by rp-hplc using pda detector	Pandit Nehru Complex, Gourkhabasti, Agartala, 799006, Tripura, India Sreenu M., Department of Pharmaceutical Analysis and Quality Assurance, A.K.R.G College of Pharmacy, West Godavari, Nallajerla, 534112, AP, India Worked with Kumar A., Kumar Singh M.				PUBLICATION		id=2-s2.0-85055046280&partnerID=40&md5=bc8fd6951c45817346baeff11d3efea
103	On selectively star-lindelöf properties	Bal P., Faculty of Science and Technology, ICFAI University Tripura, Kamalghat, Tripura, 799210, India Gauld D., Department of Mathematics, University of Auckland, Private Bag, Auckland, 92019, New Zealand Worked with Bhowmik S.	Bhowmik S.	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?id=2-s2.0-85049691531&doi=10.18311%2fjims%2f2018%2f20145&partnerID=40&md5=8936d29b675f151e8a3a87fe78ac1cbf
104	On statistical convergent sequence spaces of intuitionistic fuzzy numbers	Mishra V.N., Applied Mathematics and Humanities Department, Sardar Vallabhbhai National Institute of Technology,	Debnath S.	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?id=2-s2.0-85036510010&doi=10.5269

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Registrar (I/C)
Tripura University
Dibrugarh

		Surat, 395 007, Gujarat, India Debnath J., Department of Mathematics, National Institute of Technology, Agartala, 799046, India Worked with Debnath S.						https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032646773&doi=10.1007%2f978-981-10-3376-6_5&partnerID=40&md5=0eed2cd70d750beaf35637c43b6246a2
105	eCloud: An efficient transmission policy for mobile cloud computing in emergency areas	Pati B., Sarkar J.L., Department of Computer Science and Engineering, C.V. Raman College of Engineering, Bhubaneswar, India Panigrahi C.R., Department of Computer Science, Central University of Rajasthan, Bandar Sindri, Rajasthan, India Worked with Debbarma S.	Debbarma S.	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028957000&doi=10.1007%2fs10482-017-0930-7&partnerID=40&md5=5ca7
106	Zinc oxide nanoparticle inhibits the biofilm formation of Streptococcus pneumoniae	Bhattacharyya P., Goswami M., Tribedi P., Department of Microbiology, Assam Don Bosco University, Tapesia, Sonapur, 782402, Assam, India Agarwal B., Baruah S.,	Maiti D.	2017-2018	1	JOINT RESEARCH PUBLICATION		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028957000&doi=10.1007%2fs10482-017-0930-7&partnerID=40&md5=5ca7

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		<p>Department of Electronics & Communication Engineering, Assam Don Bosco University, Azara, Guwahati, 781017, Assam, India</p> <p>Tribedi P., Department of Biotechnology, The Neotia University, Sarisha, 743363, West Bengal, India Worked with Maiti D.</p>						df0bba0adada d84b91887db6 bbf2
10 7	E2G: A Game Theory-Based Energy Efficient Transmission Policy for Mobile Cloud Computing	<p>Sarkar J.L., Panigrahi C.R., Central University of Rajasthan, Rajasthan, India</p> <p>Pati B., C.V. Raman College of Engineering, Bhubaneswar, India Trivedi R., Biju Patnaik University of Technology, Rourkela, India Worked with Debbarma S.</p>	Debbarma S.	2017-2018	1	JOINT RESE ARCH PUBLI CATION		https://www.scopus.com/inward/record.uri?id=2-s2.0-85042306935&doi=10.1007%2f978-981-10-6872-0_65&partnerID=40&md5=05d6380f888d7d57f39177389ae4a87e
10 8	Rapid simultaneous estimation of sumatriptan succinate and naproxen sodium	<p>Debnath M., Pandit Nehru Complex, Gourkhabasti, Agartala, 799 006, Tripura, India</p>	Kumar S.A., Manna K., Singh M.K.	2017-2018	1	JOINT RESE ARCH PUBLI		https://www.scopus.com/inward/record.uri?id=2-s2.0-

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	in tablet dosage forms using a validated stability-indicating monolithic LC method	<p>Seshagiri Rao J.V.L.N., Srinivasarao College of Pharmacy, Pothinamallayyapalem, Madhurawada, Visakhapatnam, 530 041, Andhra Pradesh, India</p> <p>Anguluri D.P., Ramya G.P.S., A. K. R. G. College of Pharmacy, Nallajerla, West-Godavari, 534 112, Andhra Pradesh, India</p> <p>Worked with Kumar S.A., Manna K., Singh M.K.</p>				CATION		85041489771 &partnerID=40&md5=270e393301e7c24055e52bd81fad36d5
109	Inventory and characterization of new populations through ecological niche modelling improve threat assessment	<p>Adhikari D., Singh P.P., Tiwarly R., Barik S.K., Department of Botany, North-Eastern Hill University, Shillong, 793 022, India</p> <p>Reshi Z., Shah M.A., Salam N., Zahoor Z., Mir S.H., Kaloo Z.A., Department of Botany, University of Kashmir, Srinagar, 190 006, India</p> <p>Samant S.S., Thakur M.L.,</p>	Datta B.K., Majumdar K.	2017-2018	1	JOINT RESEARCH PUBLICATION	Department of Biotechnology, Ministry of Science and Technology, India, DBT: BT/Env/BC/01/2010	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041530264&doi=10.18520%2fcs%2fv114%2fi03%2f519-531&partnerID=40&md5=4cb5f6d2f5a30921393696d248c9dca0

Dr. K.B. Jamatia
Registrar (I/C)
Tripura University
Suryamaninagar

		<p>G.B. Pant National Institute of Himalayan Environment and Sustainable Development, Himachal Unit, Mohal-Kullu, 175 101, India</p> <p>Chettri A., Pradhan A., Department of Botany, Sikkim University, Gangtok, 737 102, India</p> <p>Upadhaya K., Department of Basic Science and Social Science, School of Technology, North-Eastern Hill University, Shillong, 793 022, India</p> <p>CSIR-National Botanical Research Institute, Lucknow, 226 001, India</p> <p>Worked with Datta B.K., Majumdar K.</p>						
200	Contributions of plant taxonomy, herbarium and field germplasm bank to conservation of threatened plants: Case studies from the Himalayas and Eastern and Western Ghats	<p>Haridasan K., Suresh G., TDU, Foundation for Revitalisation of Local Health Traditions, Bengaluru, 560 106, India</p> <p>Mao A.A.,</p>	Datta B.K.	2017-2018	1	JOINT RESEARCH PUBLICATION	Department of Biotechnology, Ministry of Science and Technology, India, DBT: BT/Env/BC/01/2010	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041533134&doi=10.18520%2fcs%2fv114%2fi03%2f512-518&partnerI


 (Dr. K.B. Jamatia)
 Registrar (I/C)
 Tripura University
 Suryamannagar

	<p>Botanical Survey of India, Shillong, 793 003, India</p> <p>Janarthanam M.K., Department of Botany, Goa University, Goa, 403 206, India</p> <p>Pandey A.K., Department of Botany, University of Delhi, Delhi, 110 007, India</p> <p>Barik S.K., CSIR-National Botanical Research Institute (NBRI), Lucknow, 226 001, India</p> <p>Srivastava S.K., Botanical Survey of India, Dehradun, 786 006, India</p> <p>Panda P.C., Regional Plant Resource Centre (RPRC), Bhubaneswar, 751 105, India</p> <p>Borthakur S.K., Department of Botany, Gauhati University, Guwahati, 781 014, India</p> <p>Rao B.R.P., Department of Botany, Sri Krishnadevaraya University, Anantapur, 515 003, India</p>						<p>D=40&md5=0 5b6c31ebe489 d9a174f50582 21fa0e5</p>
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9
(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

		Barik S.K., Centre for Advanced Studies in Botany, North-Eastern Hill University, Shillong, 793 022, India Worked with Datta B.K.						
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Dr. K.B. Jamatia
Registrar (I/C)
Tripura University
Suryamaninagar

28-09-2020



To
Prof. Syed Arshad Hussain
Department of Physics
Tripura University
Suryamaninagar - 799 022
Tripura, India

To whom it may concern

I am very happy to mention that we have active collaboration with your research group at Department of Physics, Tripura University and my research group at Department of Chemistry, Yamaguchi University, Japan since 2013. As a result of collaborative research we have several peer reviewed joint publications in our credit. Also researchers from your group and my group have made two successful exchange visit. I hope in near future our collaborative research will results some more fruitful outcome.

Thank you very much.

Sincerely

Jun Kawamata

Prof. Jun Kawamata
Department of Chemistry
Yamaguchi University
Yamaguchi 753-8512, Japan
Tel & Fax +81-83-933-5729
j_kawa@yamaguchi-u.ac.jp

Arshad
28/09/2020
Coordinator
R & I Cell
Tripura University
Suryamaninagar.

Dr. K.B. Jamatia
(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

Nature: Research Collaboration
No. BT/Env/BC/01/2010
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

(Project Grant)

Block 2, (6-8th Floors)
CGO Complex, Lodhi Road,
New Delhi- 110 003
Date: 01.10.2015

RELEASE ORDER

In continuation of this Department's sanction order of even number dated 23.03.2012 sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rule, 1978, for the release of Rs. 10.657 lakhs (Rupees Ten lakhs sixty five thousand seven hundred Only) being the fourth year release for the project entitled "Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools" being implemented by:-

1. Prof. H. Lalramnghinglova, Professor, Departmental Environmental Sciences, Mizoram University, Tanhril post Box No.190, Aizawl, Mizoram - 796001.
2. Dr. Aparajita De, Assistant Professor, Department of Ecology & Environmental Sciences, Assam University, Silchar - 788 011, Assam, India.
3. Prof. B.K. Datta, Professor, Department of Botny, Tripura University, Suryamaninagar - 799022 Tripura

The detailed break-up is as given below:

Name of Institution	Manpower	Consumables	Travel	Contingencies	Overhead	Total Rs. In Lakhs
Mizoram University, Aizawl	1.78	1.00	1.00	0.40	0.00	4.18
Assam University, Silchar	1.59	0.32	0.40	0.255	0.00	2.565
Tripura University, Agartala	2.376	0.336	0.40	0.30	0.50	3.912
Total						10.657

Rs. 0.164 lakhs Interest earned by Tripura University is re-appropriated to consumables head. Accordingly, total amount in Consumables head is Rs. 0.50 lakhs (Rs. 0.164+0.336).

2. The amount of Rs. 10.657 lakhs (Rupees Ten lakhs sixty five thousand seven hundred Only) will be drawn by the Drawing & Disbursing Officer, DBT, from the Pay & Accounts Officer, DBT, and disbursed through RTGS as per following details:

Rs. 4.18 Lakhs to Registrar, Mizoram University, Aizwal

Bank Name : United Bank of India
Branch Name: Mizoram University Branch, Tanhril, Aizawal
A/c No. : 1548010004312
IFSC Code : UTBI0MZUH61
MICR Code : 796027003

Rs. 2.565 Lakhs to Registrar, Assam University, Silchar

Bank Name : Canara Bank
Branch Name: Silchar Branch, Rangirkhari, Silchar-5
A/c No. : 3050101000285
IFSC Code : CNRB0003050
MICR Code : 788015002

Rs. 3.912 Lakhs to Registrar, Tripura University, Tripura

Bank Name : State Bank of India (SBI)
Branch Name: Tripura University Branch
A/c No. : 30371209938
IFSC Code : SBIN0010495
MICR Code : 799002524

(Signature)
(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

(Signature)
23/03/2012
Coordinator
R & I Cell
Tripura University
Suryamaninagar.

Nature: Research Collaboration
(Project Grant)

Administrative
(Application No: HC-153)

File No. BT/247/NE/TBP/2011
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER DIVISION)

Block-2, 7th Floor,
CGO Complex, Lodhi Road
New Delhi-110003

Dated: 01 / 05 / 2012

ORDER

Sanction of the President is here by accorded under Rule 18 of the Delegation of Financial Powers Rules, 1978 for the implementation of the project under 'DBT's Twinning programme for the NE' titled "Molecular epidemiology of HPV and cervical cancer in Tripura: genetic variations influencing HPV persistence and disease development" Dr. Samir Sil, Tripura University, Agartala, Tripura and Dr. Sharmila Sengupta, National Institute of Biomedical Genomics, Kalyani West Bengal at a total cost of ₹ 107.75 lakhs (Rupees One Crore Seven lakhs and Seventy five thousand only) for a period of three years, on the terms and conditions detailed as under:

2.0 The Project:

2.1 Project Title: Molecular epidemiology of HPV and cervical cancer in Tripura: genetic variations influencing HPV persistence and disease development.

2.2 Project Investigators

2.2.1 Principal Investigator:
(Parent Institute)

Dr. Samir Sil
Associate Professor
Molecular Genetics Laboratory,
Dept. of Human Physiology,
Tripura University,
Dimsagar,
Agartala, Tripura- 799001

2.2.2 Principal Investigator:
(Collaborating Institute)

Dr. Sharmila Sengupta
Professor
National Institute of Biomedical Genomics,
Netaji SubhasSanatorium, (T.B. Hospital),
2nd Floor, N.S.S., Kalyani,
West Bengal- 741251.

(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

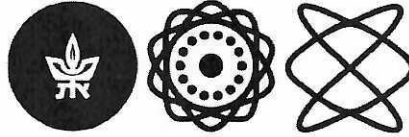
1 of 6

Chaha
23/05/2012
Coordinator
R & I Cell
Tripura University
Surjamaninagar.

(3)

Minute: Research Collaboration

Porter School of the Environment and Earth Sciences



The Raymond and Beverly Sackler Faculty of Exact Sciences
Tel Aviv University

הפקולטה למדעים מדויקים
ע"ש ריימונד ובברלי סאקלר
אוניברסיטת תל אביב

בית הספר לסביבה
ולמדעי כדור הארץ
על שם פורטר

4 October 2020

International Collaboration with Dr. Anirban Guha

I am writing this letter to describe the international collaboration between Dr. Anirban Guha and my team at Tel Aviv University in Israel. I have known Dr. Guha for about 7 years after meeting him at an international conference on Atmospheric Electricity. We were both presenting papers at the conference, and since we both work in similar fields, we had a lot to talk about. We have remained in close contact since, and today we are working closely together on topics related to lightning, thunderstorms, atmospheric electricity and climate change.

In recent years Dr. Guha and myself applied for a joint research grant to study the link between thunderstorms and upper tropospheric water vapor. This joint research has involved mutual visits in Israel and India, and our students have also started collaborating together. The main field of our interest is related to the Schumann resonances, and Dr. Guha has become one of the world experts in this field, with additional international collaborations with scientists in the US, Europe and Japan on this topic. He has visited many countries for work and research, and has attended many research workshops and international conference around the globe, including one in Israel that I organized a few years ago.

Due to Dr. Guha's pleasant manner, and readiness to always help and collaborate, he has earned himself additional international recognition, as shown by the co-authors on some of his recent papers. Dr. Guha is also promoting a South Asian Lightning Network of research dealing with lightning safety issues to help protect the public from lightning risks. I attended a workshop in Tripura on this topics, and was impressed with the international turnout from neighboring regions (Nepal, Bangladesh, Sri Lanka, Zambia, South Africa, Malaysia, Indonesia, etc.). Hence, Dr. Guha has significant international cooperation, which appears to be expanding all the time.

If you would like any additional information, please feel free to contact me.

Sincerely,

Prof. Colin Price
Head of the Environmental Studies Department
Porter School of the Environment and Earth Sciences
Tel Aviv University

23/03/2022
Coordinator
R & I Cell
Tripura University
Surjamaninagar.

(Dr. K.B. Jamatia)
Registrar (I/C)
Tel Aviv University
Surjamaninagar

03-6409282 | 079 | 03-6408633, 03-6409280 | טל': 03-6409280 | 079 | 03-6408633, 03-6409280 | רמת אביב, תל אביב 39040, אוניברסיטת תל אביב, ת"ד 39040, רמת אביב, תל אביב 6139001, ישראל | Tel: 972-3-6408633/9280 | Fax: 972-3-6409282

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Nature: Research Collaboration



Massachusetts Institute of Technology

October 5, 2020

Dr. Anirban Guha
Department of Physics
Tripura University
India

Dear Anirban

This letter summarizes the collaborative research in atmospheric electricity and global climate between Tripura University and MIT, initiated by your receipt of a Fulbright Fellowship (2012-2013), with interest in the relationship between global lightning activity and temperature. Your important initiative here, with a followup visit in 2014, led to the organization of the long-term recording of the Earth's Schumann resonances at the MIT field station in West Greenwich, Rhode Island. We then drew together the records of ~30 ELF stations worldwide on the MIT SuperCloud site as inputs to geophysical inversion schemes for global lightning activity in absolute units. You remain the leading expert on one of these schemes called FULLGEAR, and much progress was made in this area as a result of your Raman Post-Doctoral Fellowship (2016-2017) that enabled you to return to MIT for an extended period. This work has also led to productive international collaboration with another group in Hungary engaged in inversion work. Your visiting scientist opportunity at MIT in 2019 was particularly helpful in moving toward validation of the Schumann resonance inversion results on individual days.

Your group investigated earlier the behavior of LIS/OTD-observed lightning activity in the transition between phases of ENSO events (Guha et al., 2017). More recently a larger international group of Schumann resonance experts has been involved with a study on the impact of two Super El Nino events on global lightning activity that has raised important questions about the physical nature of ENSO transitions.

The new access to global ELF records has stimulated additional work by your group on the global time-of-arrival location of Q-burst lightning transients, and in the interest in documenting so-called lightning megaflashes that predominate in parts of Africa, and North and South America. The impact of large transients on the background Schumann resonances has been the interesting subject of one of your recent publications (Guha et al., JASTP, 2017). You and your students have investigated the so-called End of Storm Oscillation (EOSO) in thunderstorms in India and have recently generously shared with us your extensive findings toward identifying a possible polarity asymmetry between Type I (normal) and Type II (inverted) EOSO events.

On the incentive of a recent action of the World Meteorological Organization to make lightning a climate variable, you and your students took productive action in organizing a global dataset on thunder day observations that will serve as a valuable metric for regional and global climate change.

Regarding recent trends in global warming, you and I together have been investigating the remarkable increases in lightning activity at high latitudes, and especially in Alaska (Williams and Guha, 2019). I was pleased to participate (remotely) in the Lightning Symposium you successfully organized at Tripura University a year ago on this topic. In collaborative work with MIT post-doc Yakun Liu from China, the effects of aerosol on lightning behavior in global shipping lanes (Liu et al., GRL, 2020) and in the recent wildfire outbreak in Australia's "black summer" have been explored.

Your interest and enthusiasm have played an important role in the direction of international research activity, and we are indebted to you for your continued collaboration.

Sincerely

Earle R. Williams

Earle R. Williams
Parsons Laboratory
Building 48-211

Earle R. Williams
23/10/2022
Coordinator
R & I Cell
Tripura University
Surigamaninagar

77 Massachusetts Avenue
Cambridge, Massachusetts
02139-4307

Phone 781-981-3244
Fax 781-981-0632
Email earlerw@mit.edu
<http://cec.mit.edu/ewilliams>

Dr. K.B. Jamatia
Registrar (I/C)
Tripura University
Surigamaninagar

5

Nature: Research Collaboration
(Project Grant)

Administrative
(Application No: MAP/2013/33)

File No. BT/468/NE/TBP/2013
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER DIVISION)

Block-2, 7th Floor,
CGO Complex, Lodhi Road
New Delhi-110003
Dated: 13/3/2014

ORDER

Sanction of the President is hereby accorded under Rule 18 of the Delegation of Financial Powers Rules, 1978 for the implementation of the project under 'DBT's Twinning programme for the NE' titled "Molecular and cellular studies on normal and diabetic wound healing activities of *Parkia javanica*, a medicinal plants of Tripura, northeast India" by Dr. Samir K. Sil, Tripura University, Agartala, Tripura and Prof. Parimal Karmakar, Jadavpur University, Kolkata, West Bengal at a total cost of ₹ 63.36 lakhs (Rupees Sixty Three lakhs and Thirty Six thousand only) for a period of three years, on the terms and conditions detailed as under:

2.0 The Project:

2.1 Project Title: Molecular and cellular studies on normal and diabetic wound healing activities of *Parkia javanica*, a medicinal plants of Tripura, northeast India.

2.2 Project Investigators

2.2.1 Principal Investigator: Dr. Samir K. Sil
(Parent Institute) Associate Professor
Dept. of Molecular Genetics Laboratory, Human Physiology
Tripura University, Dimsagar
Agartala- 799001, Tripura

2.2.2 Co- Investigator I: Dr. Surajit Bhattacharya
(Parent Institute) Assistant Professor
Dept. of Molecular Biology & Bio Informatics
Tripura University,
Suryamaninagar- 799022, Tripura

2.2.3 Co- Investigator II: Dr. Swapan Majumder
(Parent Institute) Reader
Dept. of Chemistry
Tripura University,
Suryamaninagar- 799022, Tripura

2.2.4 Co- Investigator III: Dr. Biplab Ghosh
(Parent Institute) Assistant Professor
Dept. of Chemistry
Netaji Subhash Mahavidhyalaya,
Udaypur- 799022, Tripura

[Signature]
Dr. K.B. Jamatia
Registrar (UGC)
Tripura University
Suryamaninagar

[Signature]
23/03/2014
Coordinator
R & I Cell
Tripura University
Suryamaninagar.



BCIL

BIOTECH CONSORTIUM INDIA LIMITED

5th Floor, Anuvrat Bhawan, 210, Deen Dayal Upadhyaya Marg, New Delhi-110002

Tel : 2321 9064 - 67 Fax : 011- 2321 9063

Email : info.bcil@nic.in, bcildelhi@vsnl.com Website : http://www.bcil.nic.in

BCIL/NER-BPMC/2014

March 18, 2014

The Registrar
Tripura University
Suryamaninagar,
Agartala-799022
Tripura

Dear Sir/Madam,

Sub.: Release of grant to the implementing agency of the project entitled "Studies on anticancer activities of extracts (Bromelain and Peroxidase) of different pineapple (Ananas cosmosus) cultivars of Tripura" under DBT's Twinning Programme for the NE

As you may be kindly aware, the Department of Biotechnology (DBT), Government of India, has setup a North Eastern Region-Biotechnology Programme Management Cell (NER-BPMC) for promotion of Biotechnology in the North Eastern Region of India through Biotech Consortium India Limited (BCIL), a company promoted by the Department of Biotechnology.

We are happy to inform you that the above proposal submitted by your organization has been sanctioned by DBT. Please find enclosed herewith a copy of the Sanction Order No. BT/472/NE/TBP/2013 dated March 13, 2014 of the DBT along with terms and conditions of the grant, format of UC/SE, format of asset acquired, format of memorandum of agreement, etc.

Please also find enclosed herewith a cheque no. 846134 dated 18.03.2014 for an amount of Rs. 9.93 lakhs as first year release towards implementation of the above project at your organization.

We request you to please send the signed Memorandum of Agreement (MOA) which has to be executed on Rs ,100/- non-judicial stamp paper as per the format enclosed. You are also requested to send a signed copy of the terms and conditions of the grant. These signed documents may please be sent to **Dr. T. Madhan Mohan, Adviser, Department of Biotechnology (DBT), Block No. 2, 7th Floor, CGO Complex, Lodhi Road, New Delhi-110003** with in a month's time from the date of release of funds to your organization, latest by April 18, 2014.

Kindly acknowledge the receipt.

Thanking you,

Yours faithfully

(Vinod Kumar)

Deputy Manager

CC for kind information to :

1. The Vice Chancellor, Tripura University, Suryamaninagar, Agartala-799022, Tripura
2. Dr. Debassish Maitit, Associate Professor, Dept. of Human Physiology, Tripura University, Suryamaninagar, Agartala-799022, Tripura

Encl.: a/a

23/03/2014
Coordinator
R & I Cell
Tripura University
Suryamaninagar.

(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

(7)

Nature: Research Collaboration
(Project Arrmt)

Administrative
(Application No: MAP/2013/241)

File No. BT/472/NE/TBP/2013
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER DIVISION)

Block-2, 7th Floor,
CGO Complex, Lodhi Road
New Delhi-110003
Dated: 13/3/2014

ORDER

Sanction of the President is hereby accorded under Rule 18 of the Delegation of Financial Powers Rules, 1978 for the implementation of the project under 'DBT's Twinning programme for the NE' titled "Studies on anticancer activities of extracts (Bromelain and Peroxidase) of different pineapple (*Ananas comosus*) cultivars of Tripura" by Dr. Debasish Maiti, Tripura University, Suryamaninagar, Tripura and Dr. Krishna Das Saha, Indian Institute of Chemical Biology, Kolkata at a total cost of ₹ 42.25 lakhs (Rupees Forty Two lakhs and Twenty Five thousand only) for a period of three years, on the terms and conditions detailed as under:

2.0 The Project:

2.1 Project Title: Studies on anticancer activities of extracts (Bromelain and Peroxidase) of different pineapple (*Ananas comosus*) cultivars of Tripura.

2.2 Project Investigators

2.2.1 Principal Investigator:
(Parent Institute)

Dr. Debasish Maiti
Associate Professor
Dept. of Human Physiology
Tripura University, Suryamaninagar,
Tripura-799022

2.2.2 Co- Investigator I:
(Parent Institute)

Dr. Durgadas Ghosh
Professor
Dept. of Zoology
Tripura University, Suryamaninagar,
Tripura-799022

2.2.3 Principal Investigator:
(Collaboration Institute)

Dr. Krishna Das Saha
Principal Technical Officer
Dept. of Cancer Biology & Inflammatory Disorder,
Indian Institute of Chemical Biology,
4, Raja S.C. Mullick Road, Kolkata- 700032

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(Dr. K.B. Jamatia)
Registrar (I/Cs)
Tripura University
Suryamaninagar

149
Coordinator
R & I Cell
Tripura University
Suryamaninagar.
23/03/2014

Nature : Research Collaboration
(Bo'do Grant)

2.3 Objectives:

1. To characterize the different enzymatic fractions of pine apple fruit.
2. To find out the cytotoxic effect of Bromelain alone and Bromelain, peroxidase in combination (extract of two cultivars of pineapple of Tripura) on different cancer cell lines mentioned above.
3. To find out the apoptotic effect of Bromelain alone and Bromelain, peroxidase in combination (extract of two cultivars of pineapple of Tripura) in the cancer cell line(s) where bromelain or the pineapple extracts are more potent.

2.4 Time Schedule:

The duration of the project is three years from the date of issue of sanction order.

2.5 Equipment Details:

2.5.1 Tripura University, Suryamaninagar, Tripura

(₹ in lakhs)

Sl. No.	Description of equipment	Grant Recommended (Rupees in lakhs)
1.	Water bath with shaker (digital)	0.39
2.	Protein gel electrophoresis and blotter with power pack	1.68
3.	Centrifuge	0.72
4.	Stirrer hot plate	0.18
Total		2.97

2.5.2 Indian Institute of Chemical Biology, Kolkata

Nil

2.6 Manpower:

Fellowship Conditions:

JRF emoluments shall be ₹ 16,000/- + HRA for the 1st two years and ₹ 18,000/- + HRA for the 3rd year for SRF and applicable, only if JRF/SRF is NET/GATE/BET/BINC SLET/Professional course qualified, otherwise it shall be ₹ 12,000/- + HRA for the 1st two years for JRF and ₹ 14,000/- + HRA for the 3rd year for SRF.

2.6.1 Tripura University, Suryamaninagar, Tripura

(₹ in lakhs)

S. No.	Position (No.)	Emolument	1 st Year	2 nd Year	3 rd Year	Total
1.	JRF (1)	JRF @ ₹ 16,000/- + 10 % HRA for the 1st & 2nd yr SRF @ ₹ 18,000/- + 10 % HRA for 3rd yr	2.11	2.11	2.38	6.60
Total			2.11	2.11	2.38	6.60

(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

2 of 5

9

28/03/2022
Coordinator
R & I Cell
Tripura University
Suryamaninagar.

Nature: Research Collaboration
(Project Grant)

2.6.2 Indian Institute of Chemical Biology, Kolkata

(₹ in lakhs)

S. No.	Position (No.)	Emolument	1 st Year	2 nd Year	3 rd Year	Total
1.	JRF (1)	JRF @ ₹ 16,000/- + 30% HRA for the 1 st & 2 nd yr SRF @ ₹ 18,000/- + 30% HRA for 3 rd yr	2.50	2.50	2.80	7.80
Total			2.50	2.50	2.80	7.80

2.7 Budget Estimate:

The total cost of the project is ₹ 42.25 lakhs (Rupees Forty Two lakhs and Twenty Five thousand only) as per budget summary given below:

2.7.1 Tripura University, Suryamaninagar, Tripura

(₹ in lakhs)

Heads	1 st Year	2 nd Year	3 rd Year	Total
I. Non-Recurring (Equipment's and accessories)	2.97	0.00	0.00	2.97
Sub Total- I	2.97	0.00	0.00	2.97
II. Recurring				
1. Manpower	2.11	2.11	2.38	6.60
2. Consumables	3.60	3.60	3.30	10.50
3. Travel	0.50	0.50	0.50	1.50
4. Contingency	0.25	0.25	0.25	0.75
5. Overhead charges	0.50	0.50	0.50	1.50
Sub Total- II (1-5)	6.96	6.96	6.93	20.85
GRAND TOTAL (I+II)	9.93	6.96	6.93	23.82

2.7.2 Indian Institute of Chemical Biology, Kolkata

(₹ in lakhs)

Heads	1 st Year	2 nd Year	3 rd Year	Total
I. Non-Recurring (Equipment's and accessories)	0.00	0.00	0.00	0.00
Sub Total- I	0.00	0.00	0.00	0.00
II. Recurring				
1. Manpower	2.50	2.50	2.80	7.80
2. Consumables	2.50	4.50	2.58	9.58
3. Travel	0.00	0.00	0.00	0.00
4. Contingency	0.00	0.00	0.00	0.00
5. Overhead charges	0.35	0.35	0.35	1.05
Sub Total- II (1-5)	5.35	7.35	5.73	18.43
GRAND TOTAL (I+II)	5.35	7.35	5.73	18.43

- (i) Grand total for 3 years (23.82+ 18.43) = ₹ 42.25 lakhs
(ii) Total for 1st year release (9.93+ 5.35) = ₹ 15.28 lakhs

3 of 5

(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

23/03/2022
Coordinator
R & I Cell
Tripura University
Suryamaninagar.

Nature : Research Collaboration
(Project Amount)



Sanctioned for 2014-15
BIOTECH CONSORTIUM INDIA LIMITED

5th Floor, Anuvrat Bhawan, 210, Deen Dayal Upadhyaya Marg, New Delhi-110002
CIN: U73100DL1990PLC041486 Tel: 2321 9064 - 67 Fax: 011- 2321 9063
Email: info.bcil@nic.in, bcildelhi@vsnl.com Website: http://www.bcil.nic.in

BCIL/NER-BPMC/2015/

October 15, 2015

The Registrar,
Tripura University,
Suryamaninagar, Agartala-799022,
Tripura

Dear Sir/Madam,

Sub.: DBT's Sanction Order No. BT/526/NE/TBP/2013 dated October 14, 2015 for implementation of the project "Overcoming EGFR resistant Oral Squamous Cell Carcinomas with traditional healers of Tripura - A preclinical study" at your organization: Release of 2nd year grant

As you may be kindly aware, the Department of Biotechnology (DBT), Government of India, has setup a North Eastern Region-Biotechnology Programme Management Cell (NER-BPMC) for promotion of Biotechnology in the North Eastern Region of India through Biotech Consortium India Limited (BCIL), a company promoted by the Department of Biotechnology.

We are pleased to inform you that DBT has sanctioned 2nd year grant towards implementation of the above project at your organization. Please find enclosed herewith a copy of the Release Order No. BT/526/NE/TBP/2013 dated October 14, 2015.

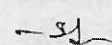
Our Accounts Division has transferred an amount of Rs. 6.04 Lakhs as Second year release towards implementation of the above project at your organization as per the following bank details

Fund Receiving Authority: Registrar, Tripura University
Account Holder Name: TU-EARMARKED FUND
Name of the Bank: State Bank of India, Tripura University Campus
Bank Account Number: 30371209938
IFSC Code: SBIN0010495

Kindly acknowledge the receipt.

Thanking you,


Yours faithfully


(Vinod Kumar)
Deputy Manager

CC for kind information to:

Dr. Utpal Chandra De
Assistant Professor,
Dept. of Chemistry,
Tripura University,
Suryamaninagar, Agartala-799022,
Tripura




(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar


23/03/2022
Coordinator
R & I Cell
Tripura University
Suryamaninagar.

File No. BT/526/NE/TBP/2013
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER DIVISION)

Block-2, 7th Floor,
CGO Complex, Lodhi Road
New Delhi-110003
Dated: 19/02/2014

ORDER

Sanction of the President is hereby accorded under Rule 18 of the Delegation of Financial Powers Rules, 1978 for the implementation of the project under 'DBT's Twinning programme for the NE' titled "Overcoming EGFR resistant Oral Squamous Cell Carcinomas with traditional healers of Tripura-A Preclinical Study" by Dr. Utpal Chandra De, Tripura University, Suryamaninagar, Agartala, Tripura and Dr. Deba Prasad Mandal, West Bengal State University, Kolkata, West Bengal at a total cost of ₹ 80.00 lakhs (Rupees Eighty lakhs only) for a period of three years, on the terms and conditions detailed as under:

2.0 The Project:

2.1 Project Title: Overcoming EGFR resistant Oral Squamous Cell Carcinomas with traditional healers of Tripura – A Preclinical Study.

2.2 Project Investigators

2.2.1 Principal Investigator:
(Parent Institute) Dr. Utpal Chandra De
Assistant Professor,
Dept. of Chemistry,
Tripura University, P. O. Suryamaninagar,
Agartala-799022, Tripura

2.2.2 Co- Investigator:
(Parent Institute) Dr. Swapan Majumdar
Associate Professor,
Dept. of Chemistry,
Tripura University, P. O. Suryamaninagar,
Agartala-799022, Tripura

2.2.3 Principal Investigator:
(Collaboration Institute) Dr. Deba Prasad Mandal
Assistant Professor
Dept. of Zoology,
West Bengal State University,
Barasat, Berunanpukuria, P.O. Malikapur,
North 24 Parganas-700726

2.2.4 Co- Investigator:
(Collaboration Institute) Dr. Shamee Bhattacharjee
Assistant Professor,
Dept. of Zoology,
West Bengal State University,
Barasat, Berunanpukuria, P.O. Malikapur,
North 24 Parganas- 700726

1 of 5

UP

(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

Nature: Research Collaboration
(Major Grant)

DST/IS-STAC/CO₂-SR-230/14(G)-AICP-AFOLU-VII
Government of India/Bharat Sarkar
Ministry of Science and Technology
Department of Science and Technology

Technology Bhavan
New Mehrauli Road
New Delhi-110016
Date: 11.09.2015

Sub: Financial assistance for the project entitled "Assessment of Carbon Stock and Carbon Sequestration Potential in Major Land Use Sectors of Tripura" to be implemented by Department of Forestry & Biodiversity, Tripura University (PI- Dr. Sourabh Deb) – Approval of the proposal and release of grants for the first year

Sanction of the President is hereby accorded to the above mentioned project at a total cost of ₹45,10,258/- (Rupees forty five lakhs ten thousand two hundred fifty eight) only with a break-up of ₹6,13,838/- under capital head and ₹38,96,420/- under General head for a duration of three years. The items of expenditure for total allocation of ₹45,10,258/- has been approved for a period of three years, are given below:

Head	I Yr	II Yr	III Yr	Total
A. Recurring	₹	₹	₹	₹
Manpower 2 JRF @₹25000/month, 28000/month (3 rd year) + HRA @10%, 1 FA @ 8000/month	7,56,000	7,56,000	8,35,200	23,47,200
Travel	1,25,000	1,50,000	1,20,000	3,95,000
Contingencies	1,00,000	1,00,000	1,00,000	3,00,000
Consumables	2,00,000	2,00,000	1,00,000	5,00,000
Subtotal:	11,81,000	12,06,000	11,55,200	35,42,200
B. Non- Recurring		--		
Computer(at 29/c)	50,000			50,000
Muffle Furnace (at 31/c)	86,000			86,000
Hot Air Oven (at 32/c)	79,000			79,000
Nitrogen Estimation System (at 33-38/c)	3,98,838			3,98,838
Subtotal:	6,13,838	---	----	6,13,838
OH charges @ 10 %	1,18,100	1,20,600	1,15,520	3,54,220
Grand Total:	19,12,938	13,26,600	12,70,720	45,10,258

Total Project Cost: ₹ 45,10,258/-

- Overhead expense is meant for the host institute towards the cost for providing infrastructural facilities and benefits to the staff employed in the project.
- Sanction of the President is also accorded for the payment of ₹6,13,838/- under 'Grants for creation of capital assets' and ₹12,99,100/- only under 'Grants-in-aid General to Registrar, Tripura University, Suryamaninagar – 799022, Agartala, Tripura being the first installment of the grant for the year 2015-16 for implementation of the said research project.
- This grant is subjected to the terms and conditions as detailed in Annexure-I (enclosed) and also can be downloaded from the website www.serc-dst.org.

5. The amount of ₹12,99,100/- (Rupees twelve lakhs ninety nine thousand one hundred) only under Grants-in-aid General will be drawn by the Drawing & Disbursing Officer (DDO), DST and will be disbursed to the Registrar, Tripura University by means of RTGS as per bank details given below:

23/09/2015
Coordinator
R & I Cell
Tripura University
Suryamaninagar.

(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

Appendix II

Table: Budget break-up for 3 years

Items	UK (GBPI)	HP	WB	Manipur	Meghalaya Nagaland	Sikkim (GB Assam)	Tripura	Mizoram	AP	JK	Total
A. Manpower											
1	764640	207360	207360	207360	207360	207360	207360	207360	207360	207360	3045600
2	764640	207360	207360	207360	207360	207360	207360	207360	207360	207360	3045600
3	842400	233280	233280	233280	233280	233280	233280	233280	233280	233280	3408480
Total	2371680	648000	648000	648000	648000	648000	648000	648000	648000	648000	9499680
B. Consumable											
1	80000	60000	60000	60000	60000	60000	60000	60000	60000	60000	740000
2	80000	60000	60000	60000	60000	60000	60000	60000	60000	60000	740000
3	750000	50000	50000	50000	50000	50000	50000	50000	50000	50000	625000
Total	2350000	170000	170000	170000	170000	170000	170000	170000	170000	170000	2105000
C. Contingency											
1	150000	60000	60000	60000	60000	60000	60000	60000	60000	60000	810000
2	130000	60000	60000	60000	60000	60000	60000	60000	60000	60000	790000
3	80000	40000	40000	40000	40000	40000	40000	40000	40000	40000	520000
Total	360000	160000	160000	160000	160000	160000	160000	160000	160000	160000	2120000
D. Travel											
1	120000	80000	80000	80000	80000	80000	80000	80000	80000	80000	1000000
2	100000	80000	80000	80000	80000	80000	80000	80000	80000	80000	980000
3	100000	60000	60000	60000	60000	60000	60000	60000	60000	60000	760000
Total	320000	220000	220000	220000	220000	220000	220000	220000	220000	220000	2740000
E. Activities and other (E1 & E2)											
E1. Treatment											
1	1116009.36	1217380	1127056	1179138	1133587	1113435	1261033	1170811	1261228	1127056	14127044
2	1116009.36	1217380	1127056	1179138	1133587	1113435	1261033	1170811	1261228	1127056	14127044
3	248002.08	2705289	2504569	2620306	2519082	2474301	2802296	2601801	2802728	2504569	31393343
Total	2480021	2705289	2504569	2620306	2519082	2474301	2802296	2601801	2802728	2504569	31393343
E2. Other											
1	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	120000
2	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	120000
3	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	120000
Total	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	360000
Total (E1 & E2)	2510021	2735289	2534569	2650306	2549082	2504301	2832296	2631801	2832728	2534569	31753430
F. Overhead (8%)	0	50000	50000	50000	50000	50000	50000	50000	50000	50000	500000
G. Equipments											
One time	6728000	0	0	0	0	0	0	0	0	0	6728000
Grand total	12524701	3983289	3782569	3898306	3797082	3752301	4080296	3879801	4080728	3782569	55446110

Contribution requested from NMHS = 90% = Rs. 4,99,01,499/- (Rs. 4.99 Cr.)
 Contribution requested from GBPI = 10% = Rs. 55,44,611/- (Rs. 55.44 Lakh)

(Dr. K.B. Jamatia)
 Registrar (I/C)
 Tripura University
 Suryamaninagar

Nature : Research Collaboration
(MoU)



दिशूत्रा त्रिपुरा TRIPURA

00AA 529122

3/11/14
Registrar,
Tripura University
Suryamaninagar-799022

MEMORANDUM OF UNDERSTANDING

This MEMORANDUM OF UNDERSTANDING is made on the Third day of November, 2014 at Agartala

between

TRIPURA UNIVERSITY (a Central University) having office address at- P.O. Suryamaninagar, PIN-799022, P.S.- Amtali, District- West Tripura. State- Tripura; established under the Tripura University Act, 2006 being authorised and represented presently by it's Joint Registrar (Registrar In-Charge) **Dr. Kalyan Bijoy Jamatia**, an Indian Citizen.

....hereinafter referred to as 'Tripura University' or 'the University', which expression, unless repugnant to the context or meaning thereof includes its successors in business and permitted assignees) as party of the FIRST PART.

[Signature]
23/05/2014
Coordinator
R & I Cell
Tripura University
Suryamaninagar.

[Signature]
(Dr. K.S. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

Society for Applied Microwave Electronics Engineering and Research, an autonomous society under the Ministry of Communication and Information Technology, Government of India, and having its office address at: I.I.T. Campus, Hill Side, Powai, Post Box No: 8448 Mumbai, Maharashtra, India Pincode – 400076; represented through its Head, Industrial & Meteorological Systems Division, **Mr. Anil A. Kulkarni**, (Scientist-F), as authorised signatory for and on behalf of **“Society for Applied Microwave Electronics Engineering and Research”**;

.....(herein referred to as the SAMEER) which expression shall unless repugnant to the context or meaning thereof, be deemed to mean and include its representatives, administrators, successors, permitted assignees, and executors of the SECOND PART.

Whereas the Department of Physics of Tripura University and SAMEER propose to work together on **“Installation of indigenously developed Lightning Detection Network in North-East India & development of Lightning Location Algorithm”**, hereinafter referred to as collaborative work, funded by Department of Electronics and Information Technology Government of India, under the North East Initiative.

AND WHEREAS Tripura University is interested in developing and using **Lightning Detection Network system** for research purpose and SAMEER having the expertise in the development of Atmospheric Instrumentation would primarily develop the **Lightning Detection Nodes**.

AND WHEREAS, the Memorandum of Understanding (MOU) defines the role and responsibilities of the participating institutes, monitoring and other matters related to the collaborative work.

The parties herein agree to the following:-

1.0 ROLE OF SAMEER

SAMEER, Mumbai Shall:

1. Design and develop Lightning Detection Network for research purpose.

To carry out the developmental work in close collaboration with

Tripura University

(Dr. K. B. Jaisankar)
Registrar (I/C)
Tripura University
Surjamaninagar

22/07/2022
Co-ordinator
R & I Cell
Tripura University
Surjamaninagar.

National Institute of Technology Agartala
राष्ट्रीय प्रौद्योगिकी संस्थान अगारतला
Jirania, West Tripura, 799046, India
Website: www.nita.ac.in
Government of India



Dr. Biswajit Saha
Assistant Professor
Department of Physics
Email: biswajit.physics@gmail.com
Mobile: +919436569904

Dated: 25th January 2021

Collaborative Research works

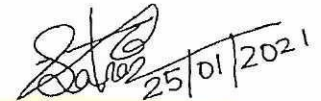
On the basis of joint agreement, with Professor R. K. Nath, Department of Chemistry, Tripura University, collaborative research works are being conducted since 2015.

The research fields of common interest like conductive polymer, their synthesis, functionalization and application as electronic material and in water treatment have been considered for collaborative work.

Joint Ph.D. guidance has also been a part of this collaboration and one Ph.D. candidate has been awarded his doctorate degree on 2020.

A number of research articles in International SCI journals have been published under this collaborative work as on date.


Based on the success and meaningful research outcome under this collaboration, I would like to continue this collaboration in future.


25/01/2021

(Dr. Biswajit Saha)
Assistant Professor
Department of Physics

Dr. Biswajit Saha
Asst. Professor in Physics
National Institute of Technology
Agartala Govt. of India


23/1/2021
Coordinator
R & I Cell
Tripura University
Surjamaninagar.


Dr. K.B. Jamatia
Registrar (I/C)
Tripura University
Suryamaninagar

Nature: Research Collaborations
(MoU)

Memorandum of Understanding

For

IRNSS Navigation Receiver Field Trial and Data Collection

Between

Space Applications Centre

Indian Space Research Organization

Department of Space, Government of India

Ahmedabad - 380015

And



Tripura University

(A Central University)

Suryamaninagar, Tripura West, Pin-799022

Page 1 of 12

[Signature]
Dr. B. Jamatia
Registrar (I/C)
Tripura University
Suryamaninagar

18

[Signature]

Nature Research Collaboration (MOU)

This MOU is entered into on 15th day of September, 2016

BETWEEN

Space Applications Centre, Jodhpur Tekra, Ambawadi Vistar P.O., Ahmedabad, 380015, a centre of Indian Space Research Organization, Department of Space, Government Of India (hereinafter called "SAC" which expression shall where the context so admits include its successors and permitted assignees) of the one part,

AND

Department of physics, Tripura University (a Central University) having address at-P.O. Suryamaninagar, PIN-799022, P. S Amtali, District: West Tripura, State - Tripura, Country - India; established under the Tripura University Act, 2006 being represented by its REGISTRAR or Registrar designated (being empowered to do so).

Hereinafter in short called as "TU-Physics" (which expression shall unless it be repugnant to the context or meaning thereof mean and include its legal representatives, successors, administrators and permitted assignees) of the Other Part.

Chalwa
23/09/2012
Coordinator
R & I Cell
Tripura University
Suryamaninagar.

K.B.
(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

Page 2 of 4

13

[Signature]

Nature Research
Collaboration (Grant)

7

Recurring

DBT-NER/Agri/29/2015 (Group 6)
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER BPMC)

Block-2, 7th Floor,
CGO Complex, Lodhi Road
New Delhi - 110003
Dated: 14/05/2019

ORDER

In continuation of this department's sanction order of even number dated 19/10/2016, sanction of the President of India is hereby accorded under Rule 18 of the Delegation of Financial Powers Rules, 1978 for the release of third year grant of ₹ 29.11 lakhs (Rupees Twenty Nine lakhs and Eleven Thousand only) for the 'DBT's Program for the NE' titled "Microbial role in yield management of scented rice of North East India" by Dr. N. C. Talukdar, Institute of Advanced Study in Science and Technology, Guwahati, Assam; Dr. Debananda S. Ningthoujam, Manipur University, Imphal, Manipur; Dr. Piyush Pandey, Assam University, Silchar, Assam; Dr. B. N. Singh, National Botanical Research Institute, Lucknow; Dr. Ajay Krishna Saha, Tripura University, Agartala, Tripura and Prof. N. K. Dubey, Banaras Hindu University, Varanasi, Uttar Pradesh, as per the details given below:

- a. The Registrar, Manipur University, Imphal, Manipur

Sl. No.	Items	(₹ in lakhs) 3 rd Year
Recurring		
1.	Manpower	4.28
2.	Consumables	0.00
3.	Travel	0.00
4.	Contingency	0.00
5.	Overhead	0.32
SUB TOTAL		4.60

(Rupees Four lakhs and Sixty Thousand only)

*Interest earned of Rs. 0.11 lakhs is re-appropriated to Overhead.

**Excess Balance of Rs. 0.57 lakhs under consumables head is re-appropriated to overhead.

- b. The Registrar, Tripura University, Tripura.

Sl. No.	Items	(₹ in lakhs) 3 rd Year
Recurring		
1.	Manpower	4.10
2.	Consumables	3.00
3.	Travel	0.40
4.	Contingency	0.50
5.	Overhead	0.48
SUB TOTAL		8.48

(Rupees Eight lakhs and Forty Eight Thousand only)

Mold. Adh

Chala
23/03/2022
Coordinator
R&I Cell
Tripura University
Surjamaninagar.

1
Adh
(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Surjamaninagar

20

1. MOA between DBT and Tripura University for the project "Microbial enzyme based natural fiber (Ramie) finishing: an eco-friendly approach"



त्रिपुरा TRIPURA

266754

MEMORANDUM OF AGREEMENT

The MEMORANDUM OF AGREEMENT is made on this 8th day of November, Two thousand and Sixteen BY AND BETWEEN President of India, acting through, The Adviser, Department of Biotechnology, Ministry of Science and Technology, Government of India, New Delhi, hereinafter referred to as the "DBT" (which expression unless excluded by its requirement to the subject shall mean and include its successor-in-office and assigns) of the ONE PART,

AND

Tripura University (Tripura University Act 2006), having its registered office in at Tripura University, Permanent campus, Suryamaninagar-799022, Agartala, Tripura, West India, hereinafter referred to as Tripura University (which expression shall where the context so admits include its successors and permitted assigns) of the OTHER PART.

WHEREAS DBT being desirous of promoting research in Agricultural Science under the Twinning programme for the NE decided to support a project submitted by Tripura University for the attainment of the objectives, hereinafter described in the Annexure I annexed hereto;

Shaan Roy Chaudhary
8/11/16

Bina
8/11/16

Dr. K.B. Janta
Registrar (I/C)
Tripura University
Suryamaninagar

Jha
23/11/2016
Coordinator
R & I Cell
Tripura University
Suryamaninagar

Nature Research
Collaboration (MOU)

Nature Research Collaboration (MOU)

This Memorandum of Agreement (MOA) defines the role and responsibilities of the participating agencies, including and other matters related to the "Microbial enzyme based natural BIAT (Kamini) funding: an eco-friendly approach".

1.0 PARALLEL TO AGREE AS FOLLOWS

1.0 ROLE OF DEPARTMENT OF BIOTECHNOLOGY, NEW DELHI
 The project aims to the extent of 6.660 Lakhs over a period of three years from the date of sanction of the project. Tripura University for undertaking activities as detailed in Annexure-I. The project will be implemented in accordance with the MOA.

- 2.0 **ROLE OF TRIPURA NIVE NSHA (Institute/NGO)**
- 2.1 To provide the project implementation plan by three years from date of sanction of the project as detailed in Annexure-I of a jointly supported project.
- 2.2 To provide the project implementation plan as mentioned in the project agreement.
- 2.3 To provide the project implementation plan for accomplishing objectives identified and activities listed.
- 2.4 To allow the Scientists authorized by DBT to work with the Research & Development team of the center in all stages of process development and production.
- 2.5 To provide scientific and non-scientific staff as sanctioned by DBT.
- 2.6 To provide and submit all purchase receipts and other documents that would be required by DBT.
- 2.7 To maintain a separate cost head of account for the grants received from DBT for the project.

- 2.8 To ensure that the total amount of expenditure incurred under the project is not more than the amount of grant given by DBT for the purpose for which it was granted and to submit the project report.
- 2.9 The purchase order, schedule and non-claimable, returned shall be purely on contractual terms & conditions such that the contract for engagement of the staff member shall conform to the conditions of the contract only.

3.0 DURATION OF PROJECT
 The duration of project shall be three years from the date the Project has been sanctioned by DBT.

4.0 RIGHTS OF OWNERSHIP/TECHNOLOGY TRANSFER AND UTILIZATION

Sivan Roy Choudhury
 8/11/16

Anita
 23/3/2016
 Coordinator
 R & I Cell
 Tripura University
 Suryamaninagar.

Dr. K.B. Jamatia
 Registrar (I/C)
 Tripura University
 Suryamaninagar

Nature Research
Collaboration (Grant)



BIOTECH CONSORTIUM INDIA LIMITED

5th Floor, Anuvrat Bhawan, 210, Deen Dayal Upadhyaya Marg, New Delhi-110002

CIN: U73100DL1990PLC041486 Tel: 2321 9064 - 67 Fax : 011- 2321 9063

Email : info.bcil@nic.in Website : http://www.bcil.nic.in

BCIL/NER-BPMC/2017/164

March 14, 2017

The Registrar,
Tripura University,
Suryamaninagar,
Tripura- 799022,
Agartala

Dear Sir/Madam,

Sub.: Release of grant to the implementing agency for the project entitled "Screening of the anti leukemic and anti oxidant potential of medicinal plants of Tripura: leading to chemical identification of the lead molecules" under DBT's Program for the NE

As you may be kindly aware, the Department of Biotechnology (DBT), Government of India, has setup a North Eastern Region-Biotechnology Programme Management Cell (NER-BPMC) for promotion of Biotechnology in the North Eastern Region of India through Biotech Consortium India Limited (BCIL), a company promoted by the Department of Biotechnology.

We are happy to inform you that the above proposal submitted by your organization has been sanctioned by DBT. Please find enclosed herewith a copy of the Sanction Order No. BT/PR15965/NER/95/37/2015 dated January 20, 2017 of the DBT along with terms and conditions of the grant, format of UC/SE, format of asset acquired, format of memorandum of agreement, etc.

Our Accounts Division has transferred an amount of Rs. 15.20 lakhs as first year release towards implementation of the above project at your organization as per the following bank details:


Account Holder's Name: Registrar, Tripura University
Bank and branch: State Bank of India, Tripura University Campus
Account No.: 30371209938
IFSC code: SBIN0010495

We request you to please send the signed Memorandum of Agreement (MOA) which has to be executed on Rs. 100/- non-judicial stamp paper as per the format enclosed. You are also requested to send a signed copy of the terms and conditions of the grant. These signed documents may please be sent to **Dr. T. Madhan Mohan, Adviser, Department of Biotechnology (DBT), Block No. 2, 7th Floor, CGO Complex, Lodi Road, New Delhi-110003** within a month's time from the date of release of funds to your organization, latest by April 14, 2017.

Kindly acknowledge the receipt.


Thanking you,

Yours faithfully



(Vinod Kumar)
Manager

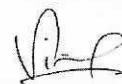
CC for kind information to:

- 1) The Vice-Chancellor, Tripura University, Suryamaninagar-799022, Tripura
- 2) Prof. Badal Kumar Datta, Professor, Dept. of Botany, Tripura University, Suryamaninagar-799022, Tripura

(Dr.  Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

23


23/3/2017
Coordinator
R & I Cell
Tripura University
Suryamaninagar.



Administrative
(Application No: MAP/2015/04)

File No. BT/PR15965/NER/95/37/2015
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER BPMC)

Block-2, 7th Floor,
CGO Complex, Lodhi Road
New Delhi-110003
Dated: 20 / 1 / 2017

ORDER

Sanction of the President is hereby accorded under Rule 18 of the Delegation of Financial Powers Rules, 1978 for the implementation of the project under 'DBT's Twinning programme for the NE' titled "Screening of the anti leukemic and anti oxidant potential of medicinal plants of Tripura: leading to chemical identification of the lead molecules" by Prof. Badal Kumar Datta, Tripura University, Tripura and Dr. Santanu Paul, University of Calcutta, Kolkata at a total cost of ₹ 53.15 Lakhs (Rupees Fifty Three Lakhs and Fifteen Thousand Only) for a period of three years, on the terms and conditions detailed as under:

2.0 The Project:

2.1 Project Title: Screening of the anti leukemic and anti oxidant potential of medicinal plants of Tripura: leading to chemical identification of the lead molecules

2.2 Project Investigators

2.2.1 Principal Investigator: Prof. Badal Kumar Datta
(Parent Institute) Professor
Dept. of Botany,
Tripura University,
Suryamaninagar-799022, Tripura

2.2.2 Principal Investigator: Dr. Santanu Paul
(Collaborating Institute) Associate Professor
Dept. of Botany,
University of Calcutta,
35, Ballygunge Circular Road, Kolkata-700019,
West Bengal

2.3 Objectives:

2.3.1 Tripura University, Suryamaninagar, Tripura

1. Collection of different medicinal plants from different geographical locations of Tripura.
2. Preparation of crude plant extracts by utilizing different solvent systems.
3. Isolation of compounds showing most potent anti-leukemic activity and its structure determination

W

Dr
(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

2.3.2 University of Calcutta, West Bengal

1. Screening for anti-leukemic potential of crude extracts of different plants of Tripura.
2. In depth measurement of apoptosis of the plant extracts on leukemic cells and its effect on normal cells.
3. Determination of the anti-oxidant potential of plant extracts.

2.4 Time Schedule:

The duration of the project is **Three Years** from the date of issue of sanction order.

2.5 Equipment Details:

2.5.1 Tripura University, Suryamaninagar, Tripura

Sl. No.	Description of equipment	Grant Recommended (₹ in lakhs)
1.	Table Top Freeze Dryer	4.00
2.	Cold Centrifuge	2.30
Total		6.30

2.5.2 University of Calcutta, West Bengal

Sl. No.	Description of equipment	Grant Recommended (₹ in lakhs)
1.	Co2 Incubator	3.00
Total		3.00

2.6 Manpower:

Fellowship Conditions:

A year wise detail of manpower as proposed has been furnished below. HRA will be as per the Govt. Norms, an indication as stated below for the JRF and SRF's emoluments will be provided as a part of sanction order. JRF shall be ₹ 25,000/- + HRA for the 1st two years and ₹ 28,000/- + HRA for the 3rd year for SRF and applicable, (JRF - Post graduate Degree in Basic Science with NET qualification or graduate degree in Professional course with NET qualification or post graduate degree in professional course) JRF without NET qualification shall be ₹ 12,000/- + HRA for the 1st two years and ₹ 14,000/- + HRA for the 3rd year for SRF.

- For JRF/SRF/RA salary is as per the revised DST OM SR/S9/Z-09/2012, dated October 21, 2014.
- For Project Assistant salary is as per the revised DST OM C.30011/1/2007-IFD, dated 21st July 2008



(Dr. K.B. Jamatia) 2 of 5
Registrar (I/C)
Tripura University
Suryamaninagar

2.6.1 Tripura University, Suryamaninagar, Tripura

(₹ in lakhs)

S No	Position (No)	Consolidated Emolument	1 st Year	2 nd Year	3 rd year	Total
1.	JRF/SRF (1)	JRF @ ₹ 25,000/- + 10 % HRA for the 1 st & 2 nd yr SRF @ ₹ 28,000/- + 10 % HRA for 3 rd yr	3.30	3.30	3.69	10.29
2.	Field Cum Lab Assistant	@ ₹ 5,000/-	0.60	0.60	0.60	1.80
Total			3.90	3.90	4.29	12.09

2.6.2 University of Calcutta, West Bengal

(₹ in lakhs)

S No	Position (No)	Consolidated Emolument	1 st Year	2 nd Year	3 rd year	Total
1.	JRF/SRF (1)	JRF @ ₹ 25,000/- + 30 % HRA for the 1 st & 2 nd yr SRF @ ₹ 28,000/- + 30 % HRA for 3 rd yr	3.90	3.90	4.36	12.16
Total			3.90	3.90	4.36	12.16

2.7 Budget Estimate:

The total cost of the project is ₹ 53.15 Lakhs (Rupees Fifty Three Lakhs and Fifteen Thousand Only) as per budget summary given below:

2.7.1 Tripura University, Suryamaninagar, Tripura

(₹ in lakhs)

Heads	1 st Year	2 nd Year	3 rd Year	Total
I. Non-Recurring (Equipments and accessories)	6.30	0.00	0.00	6.30
Sub Total- I	6.30	0.00	0.00	6.30
II. Recurring				
1. Manpower	3.90	3.90	4.29	12.09
2. Consumables	3.00	2.50	2.00	7.50
3. Travel	0.50	0.50	0.50	1.50
4. Contingency	0.50	0.50	0.50	1.50
5. Overhead charges	1.00	1.00	1.00	3.00
Sub Total- II (1-5)	8.90	8.40	8.29	25.59
GRAND TOTAL (I+II)	15.20	8.40	8.29	31.89

(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

- 2.9.4 The NER Scientists are to be trained at the collaborating institute appropriately to empower the NER Scientists.
- 2.9.5 The project personal such as Research Associate, JRF/SRF, Research Assistant are also to be trained at least once in the collaborating national institute.
- 2.9.6 The collaborating institute scientist should visit NER institutions more frequently to guide NER scientists in design and conduct of experiments.
- 2.10 This issues under the powers delegated to this Department and with the concurrence of IFD, DBT vide their Dy. No/102/IFD/SAN/2122/2016-2017 Dated: 22/08/2016.
546 - 547
- 2.10.1 This sanction order has been noted at Serial No..... in the Register of Grants.
- 2.10.2 The accounts of grantee institution shall be open to inspection by sanctioning auditory / audit.
- 3.0 M/S Biotech Consortium India Ltd (BCIL), Anuvrat Bhawan, 210, Deen Dayal Upadhyay Marg, New Delhi- 110002, is administrating the North Eastern Region Biotechnology Programme Management Cell (NER-BPMC) of the DBT.



(Dr. T Madhan Mohan)
Adviser, DBT

To,


The Pay & Accounts Officer,
Department of Biotechnology,
New Delhi - 110003

Copy to:

1. The Principal Director of Audit (Scientific Department), AGCR Building, New Delhi- 110 002.
2. Cash Section, DBT (For information only).
3. Sanction Folder.
4. IFD, DBT.
5. The Registrar, Tripura University, Suryamaninagar-799022, Tripura.
6. The Vice-Chancellor, Tripura University, Suryamaninagar-799022, Tripura.
7. The Registrar, University of Calcutta, 35, Ballygunge Circular Road, Kolkata-700019, West Bengal.
8. The Vice-Chancellor, University of Calcutta, 35, Ballygunge Circular Road, Kolkata-700019, West Bengal.
9. Prof. Badal Kumar Datta, Professor, Dept. of Botany, Tripura University, Suryamaninagar-799022, Tripura.
10. Dr. Santanu Paul, Associate Professor, Dept. of Botany, University of Calcutta, 35, Ballygunge Circular Road, Kolkata-700019, West Bengal.
11. Concern file.
12. The Managing Director, Biotech Consortium India Limited, (NER-BPMC), 5th Floor, Anuvrat Bhawan, 210, Deen Dayal Upadhyay Marg, New Delhi- 110002.



(Dr. T Madhan Mohan)
Adviser, DBT


(Dr. K B. Jamatia)
Registrar (IC)
Tripura University
Suryamaninagar

Nature Research
Collaboration (Grant)

No. BT/PR12956/NDB/39/504/2015
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, (6-8th Floors)
CGO Complex, Lodhi Road,
New Delhi- 110 003

Date: 27.02.2017

RELEASE ORDER


In continuation of this Department's sanction order of even number dated 27.02.2017 sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rule, 1978, for the release of Rs. **24088080.00** (Rupees Two Crores Fourty Lakhs Eighty Eight Thousand and Eighty Only) being the first year release for the project entitled "**Establishment of a Culture Collection Centre in North East Region of India Phase II**", being implemented by:

1. Dr. Amit Kumar Rai, Regional Centre of Institute of Bioresources and Sustainable Development, 5th Mile, Metro Point, National Highway 31A, Tadong,, Gangtok - 737102, Sikkim
2. Dr. Debajit Thakur, Institute of Advanced Study In Science & Technology, Paschim Boragaon, Garchuk,, Guwahati Assam - 781035, Assam
3. Dr. Debananda S Ningthoujam, Manipur University, Indo Myanmar Road, NH-39, Koirou Village, Imphal - 795003, Manipur
4. Prof. Dinabandhu Sahoo, Institute of Bioresources And Sustainable Development, Takyeipat Institutional Area, Imphal - 795001, Manipur
5. Dr. Panna Das, Tripura University, Suryamaninagar, Agartala - 799022, Tripura
6. Dr. S Singh Sureshkumar, North Eastern Regional Institute of Science And Technology, New Degree Block,, Itanagar - 791109, Arunachal Pradesh
7. Dr. Santa Ram Joshi, North-Eastern Hill University, Shillong, Mawkynroh, Umshing,, Shillong - 793022, Meghalaya
8. Dr. Shaon Chaudhuri Ray, Tripura University, Suryamaninagar, Agartala - 799022, Tripura
9. Dr. Talijungla , Nagaland University, Lumami,, Zunheboto - 798627, Nagaland


(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

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28/03/2017
Coordinator
R & I Cell
Tripura University
Suryamaninagar.
Page No. [1 / 6]

Nature Research Collaboration



Research Centre for Astronomy and Earth Sciences
Geodetic and Geophysical Institute
H-9400 Sopron, Csatkai E. u. 6-8. Tel.: (+36) 99 508-340 www.csfk.mta.hu



Tripura University, India

To Whom it may concern,

I kindly inform you that Dr. Anirban Guha's name has become known for me since his first visit as post-doc at Professor Earle Williams at MIT, USA in 2012-2013. In those years my cooperation with Professor Williams had already dated back almost for two decades. In this way we have got with Dr. Guha on the similar scientific platform. I personally met him in Tel Aviv, Israel during a Schumann Resonance Workshop in February, 2017. Meanwhile a closer scientific cooperation has developed on the climate relation of Schumann resonances (SR) and SR inversion to reproduce the global lightning activity. Two common publications have already been achieved and two others were submitted (see the publications listed below).

October 4, 2020

Sátori Gabriella

Gabriella Sátori DSc

Geodetic and Geophysical Institute
Research Centre for Astronomy and Earth Sciences
Eötvös Loránd Research Network
Csatkai u. 6-8.
9400 Sopron, Hungary
satori.gabriella@csfk.mta.hu

E. Prácser, T. Bozóki, **G. Sátori**, J. Takátsy, E. Williams and **A. Guha**, Two Approaches for Modeling ELF Wave Propagation in the Earth-Ionosphere Cavity with Day-Night Asymmetry, IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION (submitted, 2020)

E. Williams, T. Bozóki, **G. Sátori**, C. Price, P. Steinbach, **A. Guha**, Y. Liu, C. Beggan, M. Neska, R. Boldi, and M. Atkinson, Evolution of Global Lightning in the Transition from Cold to Warm Phase Preceding Two Super El Niño Events, Journal of Geophysical Research: Atmospheres (submitted, 2020)

E. Prácser, T. Bozóki, **G. Sátori**, E. Williams, **A. Guha** and H. Yu, "Reconstruction of global lightning activity based on Schumann Resonance measurements: Model description and synthetic tests", Radio Science, (American Geophysical Union), Vol. 54(3), pp. 254-267, 2019.

A. Guha, E. Williams, R. Boldi, **G. Sátori**, T. Nagy, J. Bór, J. Montanya and P. Ortega, "Aliasing of the Schumann resonance background signal by sprite-associated Q-bursts", Journal of Atmospheric and Solar Terrestrial Physics (Elsevier Science), Vol. 165-166, pp. 25-37, 2017.

Handwritten signature
23/05/2022
Geodetic and Geophysical Institute
R & I Cell
Tripura University
Suryamaninagar.

Handwritten signature
(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

(29)

Nature Research Collaboration (MOU)

execution of the decisions taken, disbursement of funds, monitoring the physical and financial progress of the Project and to obtain reports and returns and clarifications as required from time to time from the BIG Innovators

WHEREAS the BIG innovator has conceived a Project entitled "Microbial Consortium based biofertilizer for increased Rami fiber yield" and submitted a proposal with amendments (hereinafter called "the Project") for grant-in-aid assistance under BIG Scheme as per Annexure 1;

AND WHEREAS BIRAC has approved the Project and agreed to provide assistance to the extent of Rs. 46.82 lakh (Rupees Forty six lakh and eighty two thousand Only) in the form of grant-in-aid to the BIG Innovator under BIG Scheme on the terms and conditions contained hereinafter in this Agreement

All Annexures to this Agreement shall be integral part of this Agreement.

NOW THEREFORE, in consideration of the promises and mutual covenants hereinafter contained, the Parties hereto agree as follows:

1. RESPONSIBILITIES OF THE BIG INNOVATOR

- a. The BIG Innovator shall:
 - i. Carry out the activities of the Project and conform to the specified objectives, outputs, milestones, and targets.
 - ii. Meet the resources on the Project activities to the extent as agreed to, as per details given in Annexure 1.
 - iii. Submit a utilization certificate and statement of accounts duly audited and/or certified by a chartered accountant for the expenditure incurred on the Project for the half year, ending 31st March and 30th September, to BIG Partner, within a month of 31st March and 30th September for respective half year, in the format provided by BIG Partner;
 - iv. Submit a milestones progress report to BIG Partner as per the timeline and participate in the meetings organized by BIG Partner to review the progress of the Project, as and when called for.
 - v. Obtain all the necessary requisite approvals, clearance certificates, permissions and licenses from the Government/local authorities for conducting its operations in connection with the Project;
 - vi. Keep the draws from the grant-in-aid assistance in a separate no-lien account in the name of the BIG Innovator with a scheduled bank, the payments from which account shall be subject to verification by BIG Partner/BIRAC. It shall also obtain and furnish to BIG Partner a letter from the said bank foregoing the right of set off or lien in respect of such account
 - vii. Utilize the amounts sanctioned by BIG Partner for the Project only for the purposes as specified in the Project and shall not entrust the implementation of the Project to another agency or divert the grant-in-aid assistance.
 - viii. Abide by the decision of BIG Partner/BIRAC to modify the objectives, outputs, milestones, targets, funding as also the foreclosure of the Project or of its components after mutual discussion.

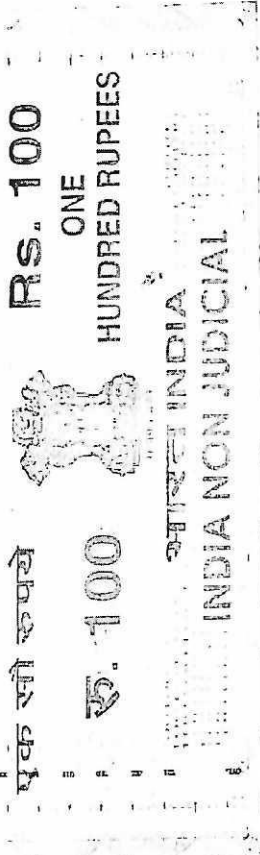
KIT-BIG Innovator & BIG Partner Agreement

Strictly Confidential

Page 2 of 13

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Scanned by TapScanner



TRIPURA

309855

AGREEMENT

This Agreement is made on this 6th day of October, 2012 at Bhubaneswar, BY and BETWEEN M/s MIT Technology Business Incubator, a Section 25 Company incorporated under the Companies Act 1956 having its registered office at Campus 11, KIIT University, Patna, Bhubaneswar, 751024, hereinafter referred to as "BIG Partner" (which expression shall wherever the context so admits include its successors and assignees) of the First Part

AND

Dr. Shaon Ray Choudhury, D/O Dr Dipali Roy Choudhury and Late Dr Bimalendu Ray Choudhury, resident of 188/1 M M Datta Road, New Barrackpur, West Bengal and having the Project implementation site at KIIT Technology Business Incubator, Bhubaneswar as incubator, hereinafter referred to as "BIG Innovator" (which expression shall wherever the context so admits include its successors in interest, liquidators, administrators and assigns) of the Second Part

WHEREAS all the parts are hereinafter referred to as "Parties".

WHEREAS Biotechnology Industry Research Assistance Council, A Government of India Enterprise, having its office at MTPL Building, First Floor, 9, CGO Complex, Lodhi Road, New Delhi - 110 003 hereinafter referred to as the "BIRAC" operates a scheme entitled Biotechnology Ignition Grant Scheme (hereinafter referred to as "BIG Scheme") to support an innovative idea in the field of biotechnology for proof of concept

WHEREAS, BIRAC has entrusted the BIG Partner with implementation of the BIG Scheme including necessary processing of the proposals, organizing various meetings and training programs for BIG.

KIT-BIG Innovator & BIG Partner Agreement

Strictly Confidential

Page 1 of 13

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(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

Julka
23/03/2022
Coordinator
R & I Cell
Tripura University
Suryamaninagar.

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BT/01/17/NE/TAX
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003

Dated: 29th March, 2018

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled "Bioresource and Sustainable livelihoods in North East India" for a period of 3 Year 0 Month at a total cost of Rs. 2318.64243 lakhs (Rupees Twenty Three Crores Eighteen Lakhs Sixty Four Thousand Two Hundred and Forty Three Only) on the terms and conditions detailed here under:-

2. The Project:

2.1 Title: Bioresource and Sustainable livelihoods in North East India

2.2 Overall Project Coordinator: Dr. Ganesan Rengajan, Fellow, Sri Sengal Center for Biodiversity and Conservation, Ashoka Trust for Research in Ecology and the Environment (ATREE), Bangalore

Project Co-Coordinator: Professor Dinabandhu Sahoo, Director, Institute of Bioresources and Sustainable Development (IBSD), Imphal, Manipur

2.3 Project Investigators:

COMPONENT 1 - INVENTORIES AND MAPPING OF BIORESOURCES IN NORTHEAST INDIA

Subproject 1: ATREE, Bangalore

Principal Investigators: 1. Dr. Ganesan Rengajan, ATREE, Bangalore

Co- Investigator: 1. Dr. Ravikanth Gudsalmanni, (ATREE), Bangalore
2. Dr. Muneeswaran Mariappan, (ATREE), Bangalore

Subproject 2: Assam - Ballpara Foundation, Assam

Principal Investigator: 1. Dr. Gitamani Dutta, Ballpara Foundation, Assam

Subproject 3, 4, 5 Yet to be Identified:

Subproject 6:- Nagaland University, Nagaland

Principal Investigator: 1. Dr. Neizo Puro, Nagaland University, Lumami

Co-Investigator: 1. Dr. Limasenia, Nagaland University, Lumami

Subproject 7: Institute for Bioresources and Sustainable Development (IBSD), Manipur

Principal Investigator: 1. Dr. Biseshwori Thongam, IBSD, Imphal, Manipur,

Subproject 8: Mizoram University, Mizoram

Principal Investigator: 1. Dr. Bianka Zote, Mizoram University, Aizawl


Subproject 9: Tripura University, Tripura

Principal Investigator: 1. Dr. Badai Datta, Tripura University, Tripura, Agartala

Subproject 10:- North East Hill University (NEHU), Meghalaya

Principal Investigator: 1. Dr. Uma Shankar, North Eastern Hill University, Shillong

Mohd Aslam


(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

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File No. DBT-NER/AGRI/33/2016 (Group-1)
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER-BPMC)

Release Order

Block-2, 7th Floor,
CGO Complex, Lodhi Road
New Delhi-110003
Dated: 22 / 3 / 2018

ORDER

In continuation of this department's sanction order of even number dated 22 / 3 / 2018, sanction of the President of India is hereby accorded under Rule 18 of the Delegation of Financial Powers Rules, 1978 for the release of First year grant of ₹ 23.30 Lakhs (Rupees Twenty Three Lakhs and Thirty Thousand only) to The Registrar, Tripura University, Suryamaninagar, Tripura for the implementation of a network project under 'DBT's NER-Banana Program for the NE' titled "*Genome Characterization of Banana/Plantain Genetic Resources of North-eastern Region and their Utilization in Multicenter Planning for Commercial Improvement*" by Prof. Anath Bandhu Das, Utkal University, Bhubaneswar, Odisha; Prof. Rabindra Kumar Sinha, Tripura University, Suryamaninagar, Tripura and Dr. Satya Narayan Jena, National Botanical Research Institute, Lucknow, as per the details given below:

		(₹ in lakhs)
Heads		1 st Year
I	Non-Recurring (Equipments and accessories)	15.00
Sub Total- I		15.00
II	Recurring	
1	Manpower	3.30
2	Consumables	3.00
3	Travel	0.50
4	Contingency	0.50
5	Overhead charges	1.00
Sub Total- II (1-5)		8.30
GRAND TOTAL (I+II)		23.30

(Rupees Twenty Three Lakhs and Thirty Thousand only)

- The other terms and conditions governing the financial sanction will remain unaltered.
- The Non-recurring items must be procured and installed within 6 month period from the date of sanction.
- "As per Rule 236 (1) of GFR 2017, the accounts of all Grantee Institutions or Organisations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG(DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry or Department, whenever the Institution or Organisation is called upon to do so "

Page 1 of 3

(Dr. B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

32

Nature Research
Collaboration (Grant)

Validity 2 years.

361

Application No.: Agri/2015/69

No. BT/PR16867/NER/95/327/2015
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER-BPMC)

Block 2, (6-8th Floors)
CGO Complex, Lodhi Road,
New Delhi- 110 003

Date: 13/11/2018

RELEASE ORDER

In continuation of this Department's sanction order of even number dated Jan 13, 2017 sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rule, 1978, for the release of Rs. **3194000.00** (Rupees Thirty One Lakhs Ninety Four Thousand Only) being the second year release for the project entitled "**Integrated approach to understand agarwood formation and value addition of Agarwood (Aqualaria malaccensis)**", being implemented by

1. Prof. Ashish Kumar Nandi, Jawaharlal Nehru University, Room No. 415, New Delhi - 110067
2. Dr. Bimal Deb Nath, Tripura University, Suryamaninagar, Agartala - 799022, Tripura
3. Dr. Madhumita Barooah, Assam Agricultural University, Jorhat - 785004, Assam
4. Dr. Phatik Tamuli, Darrang College, Tezpur - 784001, Assam
5. Dr. Sofia Banu Banu, Gauhati University, Gopinath Bordoloi Nagar, Guwahati Assam - 781014

The detailed break-up is as given below:

SNo	Institute Name	Recurring						Total Release Amount (Rs)
		Manpower	Consumable	Travel	Contingency	Others	Overhead	
1	Assam Agricultural University	255000.00	399000.00	24000.00	20000.00	0.00	33000.00	731000.00
Interest earned of rs. 17000 assuming 4 percent on rs. 411000 is re appropriated to overhead								
2	Darrang College	208000.00	136000.00	33000.00	6000.00	0.00	4000.00	387000.00
Interest earned of rs. 6000 assuming 4 percent on rs. 152000 is re appropriated to overhead balance under NR head is re appropriated to contingency								
3	Gauhati University	187000.00	900000.00	40000.00	25000.00	0.00	48000.00	1200000.00
Interest earned of Rs. 2000 is re appropriated to overhead								
4	Jawaharlal Nehru University	192000.00	250000.00	25000.00	20000.00	0.00	42000.00	529000.00
Interest earned of rs. 2000 is re appropriated to overhead								
5	Tripura University	116000.00	187000.00	26000.00	18000.00	0.00	0.00	347000.00

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Veri... ..

(Dr. K B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

[Signature]
23/03/2018
Coordinator
R & I Cell
Tripura University
Suryamaninagar.

33

Nature Research
Collaboration (Grant)

Amit

325-326

Administrative
App. No. MED/2017/107

No. BT/PR25380/NER/95/1168/2017
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER-BPMC)

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003
Dated: 28 / 07 /2018

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules ,1978 , for the implementation of the project entitled: "Development of polyherbal based functional biopolymer hydrogel for delivery of novel healing agents in excision and burn wound." for a period of 3 Year 0 Month at a total cost of Rs. 7542600 (Rupees Seventy Five Lakhs Fourty Two Thousand Six Hundred Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : "Development of polyherbal based functional biopolymer hydrogel for delivery of novel healing agents in excision and burn wound."

2.2 Details of the Investigators:

Project Cordinator

Prof. samir kumar sil
Professor
Human physiology
Tripura University
suryamaninagar, Agartala, Tripura, 799022

Principal Investigators:

Prof. Samir kumar sil
Professor
Human physiology
Tripura University
suryamaninagar, Agartala, Tripura,
799022

Prof. Parimal Karmakar
Professor
Life Science and Blotechnology
Jadavpur Unverslty
188 Raja SC Mullaek Road,
Kolkata:700 032, WB, India, ,West
Bengal, 700032

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Versalala

(Signature)
23/07/2018
Coordinator
R & I Cell
Tripura University
Surjamaninagar.

(Signature)
(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar



विश्वविद्यालय अनुदान आयोग - परमाणु ऊर्जा विभाग वैज्ञानिक अनुसंधान संकुल
UGC-DAE Consortium For Scientific Research

मुंबई केन्द्र
Mumbai Centre

(विश्वविद्यालय अनुदान आयोग - नई दिल्ली द्वारा स्थापित स्वशासी संस्थान)
(An autonomous institution of UGC, New Delhi)

Ref: UDCSR/MUM/AO/CRS-M-277/2017/574

Date: 18 DEC 2017

To,
Dr.Ratan Das
Assistant Professor
Department of Physics
Tripura University (A Central University)
Suryamaninagar, Agartala, Tripura (West) - 799 022.

Sub. Sanction of Collaborative research Scheme titled "Study of the magnetic structure in a few synthesized metal doped spinel ferrite nanocrystals using neutron scattering method" (CRS-M-277)

Dear Dr. Das,

We are happy to inform you that following the Project Review Meeting held on 22nd August, 2017 at Mumbai, your above Collaborative Research Scheme (CRS) project has been sanctioned. Presently the project is sanctioned for one year w.e.f 1st January, 2018, but it may be extended after a review every year, subject to a total period of three years. The financial sanctions for the year 2018 are as follows:

Sl. No.	Head	Amount sanctioned for current year (01.01.2018 - 31.12.2018)(*)
1	Scholarship / Fellowship(#)	(**)
2	Chemicals/Consumables	30,000.00
3	Contingency	15,000.00
	Total	45,000.00
Note: No overheads are available under this scheme		

(*) Funds under scholarship will be transferred after appointment of student as per the Guidelines of UGC DAE CSR.

(**) Grants under scholarship will be transferred after appointment of student as per the guidelines of UGC-DAE CSR. If the student has already been appointed in your project and is continuing in the project, PI may please provide the appointment extension letter for release of Scholarship / Fellowship.

(#) Point no. 2.4 of guideline is to be invariably mentioned in the appointment letter issued to the student.


Guidelines regarding implementation of the CRS: Review, Appointment of Project fellow, Travel support to the PI or Student to visit BARC for performing experiments, etc. are enclosed herewith.

Dr.S.M.Yusuf (Email: debasis@barc.gov.in), Dr Debasis Sen (Email: debasis@barc.gov.in) and Dr.V.K.Aswal (Email: vkaswal@barc.gov.in), Solid State Physics Division, BARC, will be your Principal Collaborator (PC) for the above scheme. You may contact him for implementation of the scheme.

Please send us your acceptance letter by 15.01.2018. On receipt of your acceptance letter, financial grant for CRS will be sent through NEFT/ RTGS (kindly provide details in the enclosed format along with the acceptance letter) to the Registrar/Financial Authority of your institute.

Thanking you,

Yours sincerely


Administrative Officer

Encl : As stated

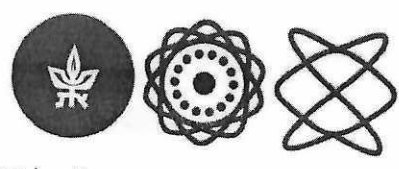
Copy to,

- 1 Registrar/Director, Tripura University, Tripura West - 799 022.
- 2 Dr S.M Yusuf, Head, Solid State Physics Division, BARC, Trombay, Mumbai-400 085
- 3 Director, UGC-DAE CSR, Univ Campus, Khandwa Road, Indore-452 017

२४६-सी, दूसरी मंजिल, सामान्य सुविधा भवन, भाभा परमाणु अनुसंधान केन्द्र, ट्रॉम्बे, मुंबई - ४०० ०८५
246-C, 2nd Floor, Common Facility Building, Bhabha Atomic Research Centre, Trombay, Mumbai-400 085.
Phone : +91 022 25505327, 25594727 • Fax : +91 022 25505402
E-mail : udcsr.mum@csr.res.in


(Dr. K.B. Jaisankar)
Registrar (I/C)
Tripura University
Suryamaninagar

25



4 October 2020

International Collaboration with Dr. Anirban Guha

I am writing this letter to describe the international collaboration between Dr. Anirban Guha and my team at Tel Aviv University in Israel. I have known Dr. Guha for about 7 years after meeting him at an international conference on Atmospheric Electricity. We were both presenting papers at the conference, and since we both work in similar fields, we had a lot to talk about. We have remained in close contact since, and today we are working closely together on topics related to lightning, thunderstorms, atmospheric electricity and climate change.

In recent years Dr. Guha and myself applied for a joint research grant to study the link between thunderstorms and upper tropospheric water vapor. This joint research has involved mutual visits in Israel and India, and our students have also started collaborating together. The main field of our interest is related to the Schumann resonances, and Dr. Guha has become one of the world experts in this field, with additional international collaborations with scientists in the US, Europe and Japan on this topic. He has visited many countries for work and research, and has attended many research workshops and international conference around the globe, including one in Israel that I organized a few years ago.

Due to Dr. Guha's pleasant manner, and readiness to always help and collaborate, he has earned himself additional international recognition, as shown by the co-authors on some of his recent papers. Dr. Guha is also promoting a South Asian Lightning Network of research dealing with lightning safety issues to help protect the public from lightning risks. I attended a workshop in Tripura on this topics, and was impressed with the international turnout from neighboring regions (Nepal, Bangladesh, Sri Lanka, Zambia, South Africa, Malaysia, Indonesia, etc.). Hence, Dr. Guha has significant international cooperation, which appears to be expanding all the time.

If you would like any additional information, please feel free to contact me.

Sincerely,

Prof. Colin Price
Head of the Environmental Studies Department
Porter School of the Environment and Earth Sciences
Tel Aviv University

Dr. K B. Jamatia
Registrar (I/C)
Tripura University
Suryamaninagar

सीएसआईआर-केन्द्रीय खनन एवं ईंधन अनुसंधान संस्थान

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)
बरवा रोड, धनबाद - 826 015, झारखण्ड, भारत
एक आई एस ओ 9001 प्रमाणित संस्थान



CSIR-Central Institute of Mining and Fuel Research

(Council of Scientific and Industrial Research)
Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Mr. Harjeet Nath

Assistant Professor

Department of Chemical & Polymer Engineering

Tripura University (A Central University), Agartala, India

To whom it may concern

I am very happy to mention that we have active collaboration with your research group at Department of Chemical & Polymer Engineering, Tripura University and my research group at Gasification and Catalysis Laboratory, CSIR CIMFR (Digwadih Campus) since 2018. As a result of collaborative research we have several peer reviewed joint publications in our credit. Also researchers from your group have made successful exchange visits as part of internship program. I hope in near future our collaborative research will results some more fruitful outcome.

Thank you very much.

Sincerely,

Vishal Chauhan
Scientist

Gasification and Catalysis Research Group
CSIR-Central Institute of Mining and Fuel Research
(Ministry of Science & Technology, Govt. of India)
Dhanbad - 828108, Jharkhand, India

Phone: 09411850253

Email: vishal.cimfr@gmail.com

vishalchauhan@cimfr.nic.in

Webpage: www.cimfr.nic.in

(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

23/08/2020
Coordinator
R & I Cell
Tripura University
Suryamaninagar.

Nature Research Collaboration (Grant)

No. BT/PR25260/NJ R/95/1102/2017
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER BPRC)

Administrative
Appl. No.: Agri/2017/91

Block Z, 6th Floor
C-0 Complex, Lodhi Road,
New Delhi - 110 003
Dated: 24/6/2019

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers, Rules, 1928, for the implementation of the project entitled: "Understanding mechanistic detail of growth promotion and stress tolerance in legume crop by fungal endophyte through secretome and metabolomics study" for a period of 3 Year 6 Month at a total cost of Rs. 7166988 (Rupees: Seventy One Lakhs Sixty Six Thousand Nine Hundred and Eighty Eight Only) on the terms and conditions detailed here under:

2 The Project :

2.1 Title : "Understanding mechanistic detail of growth promotion and stress tolerance in legume crop by fungal endophyte through secretome and metabolomics study"

2.2 Details of the Investigators:

Project Coordinator

Prof. Ajay Krishna Saha
Professor
Botany
Tripura University
Suryamaninagar, Agartala, Tripura, 799022

Principal Investigators:

Prof. Ajay Krishna Saha
Professor
Botany
Tripura University
Suryamaninagar, Agartala, Tripura,
799022

Prof. Subhra Chakraborty
Scientist-VII (Professor)
Molecular Biology
National Institute of Plant Genome
Research, Jawaharlal Nehru
University Campus, Aruna Asaf Ali
Marg, New Delhi, 110067

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V. C.
Saha
23/6/2019
Coordinator
R & I Cell
Tripura University
Suryamaninagar.

Dr. K.B. Jamatia
Registrar (I/C)
Tripura University
Suryamaninagar



भारतीय प्रौद्योगिकी संस्थान गुवाहाटी
गुवाहाटी 781 039, असम, भारत
Indian Institute of Technology Guwahati,
Guwahati 781 039, Assam, India.

Phone Nos +91-361- 258 2082
Fax No -91-361- 258 2089
e-mail dornd@iitg.ernet.in

Office of Dean Research and
Development Section

Prof Gopal Das
Dean Research and Development & the
Coordinator, NECBH Programme
IIT Guwahati
Assam 781039
Ref: NECBH/2019-20/146

Date 29-04-2019

PI Name Mr Harjeet Nath Sanction Letter
Category Early Career
Project ID 146
Project Title Prospects of biochars as amendment in various types of soil present in North East India
Duration 2 years
Total Sanction amount Rs. 493120.00

Account HEAD	For Principal Investigator	For CO PI IITG	For CO PI Other Institute
Non-Recurring	200000.00	NIL	NIL
Man Power	128000.00	NIL	NIL
Consumables	20000.00	20000.00	NIL
Travel	10000.00	NIL	NIL
Contingency	10000.00	4000.00	NIL
Total	368000.00	24000.00	NIL
OVERHEAD	36800.00	NIL	NIL
Instrument maintenance		64320.00	NIL
GRAND TOTAL		493120.00	

Sincerely Yours,

Gopal Das

Terms and conditions

- The principal investigator (PI) has to acknowledge project number BT/COE/34/SP28408/2018 of Department of Biotechnology (DBT), Govt. of India for the financial support
- Funds will be released in subsequent installation subject to satisfactory performance of the project and availability of fund
- The Institute PI would furnish a Utilization Certificate and an audited statement of expenditure duly signed by the PI, the Head of the Institute and the Head of the Finance wing, pertaining to the grant at the end of each financial year as well as a consolidated statement of expenditure at the end of the completion of the project or whenever it is required.
- The PI is not permitted to seek or utilize funds from any other organization (Government, Semi Government, Autonomous or Private) for this research project.
- Any unspent part of amount would be surrendered to the **Research and Development Section, IITG** and carry forward of funds of the next financial year for utilization for the same project may be considered only with the specific approval of the **Research and Development Section, IITG and Department of Biotechnology (DBT)**
- IIT Guwahati or DBT reserves the right to terminate the grant at any stage and also to recover the amounts already paid if it is convinced that the grant has not been properly utilized or the work on the project has been suspended for any unduly long period or appropriate progress is not being made.
- The project will become operative with effect from April 29, 2019.
- A copy of progress report has to be sent in the month of January till the completion of project or whenever it is required.
- Travel should be used mainly for sample collection, discussion among the PIs not for other purpose. No international Travel will be undertaken from the sanctioned project grant.
- If the Investigator to whom a grant for a project has been sanctioned leaves the institution where the project is being implemented, PI shall submit five copies of complete and detailed report of the work done by him on the project and the money spent till the date of his/her release and shall also arrange to refund the unspent balance, if any, to IIT Guwahati.

(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

19 Endorsement Form

This is to certify that Mr. Harjeet Nath is having a regular position in our organization/institution/university. This organization/institution/ university agrees to undertake the financial and other management responsibilities for the part of the project work which will be conducted in our organization.

The details of the Finance Officer of the Institute who is authorized to receive the grant on behalf of the Institute including Bank account details, IFSC code are given below:

Date:

Place:


Name and signature 3.1.19

of the Head of the organization/institution/university

(Sanit Debroy)
Registrar (I/C)
Tripura University
Suryamaninagar-799022


(Dr. K. B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar



भारतीय प्रौद्योगिकी संस्थान गुवाहाटी,
गुवाहाटी 781 039

Indian Institute of Technology
Guwahati, Guwahati 781 039, Assam, India.

Phone Nos.: +91-361- 258 2082

Fax No. : +91-361- 258 2089
e-mail : dornd@iitg.ernet.in

Prof Gopal Das

Dean Research and Development and
Professor of Chemistry

File Ref:NECBH/2018-19

Date :18.01.2019

Office of the Research and
Development Section

ENDORSEMENT

This is to certify that **Dr. Sudip Mitra** is having a regular position in our organization/institution/university. This organization/institution/ university agrees to undertake the financial and other management responsibilities for the part of the project work which will be conducted in our organization.

The details of the Finance Officer of the Institute who is authorized to receive the grant on behalf of the Institute including Bank account details, IFSC code are given below:

Institution account name: IITG R&D Account
Account No: 30314002512
IFSC Code: SBIN0014262
Bank: State Bank of India
Branch Name: IIT Guwahati Branch
MICR No: 781002053
Account Type: Saving Account

Date: 18th Jan 2019
Place: IIT Guwahati

RDA
18/1/19
Name and signature
of Head of the organization/Institution/University

संकायाध्यक्ष, अनुसंधान एवं विकास
Dean, Research and Development
भारतीय प्रौद्योगिकी संस्थान गुवाहाटी
Indian Institute of Technology Guwahati
गुवाहाटी 781039
Guwahati-781039

Jam
(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

Nature: Research
Collaboration
(Joint Project)

133

No. BT/PR25369/NER/95/1162/2017
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER-BPMC)

Non-Recurring
Appl. No. BMB/2017/61

Block 2, (6-8th Floors)
CGO Complex, Lodhi Road,
New Delhi- 110 003
Date: 27/9/19

RELEASE ORDER

In continuation of this Department's sanction order of even number dated 27/9/19, sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rule, 1978, for the release of Rs. **1471000.00** (Rupees Fourteen Lakhs Seventy One Thousand Only) being the first year release for the project entitled "**Synthesis And Characterization Of Different Chrysin Derivatives Followed By Screening Of Anti-Obesogenic Activity, Anti-Diabetogenic Activity In Vitro: Assessment Of In Vivo Activity With The Lead Compounds**", being implemented by

1. Dr. Mrs Krishna Das Saha, Indian Institute Of Chemical Biology, 4, Raja S. C. Mallick Road, Kolkata - 700032, West Bengal
2. Dr. Utpal Chandra De, Tripura University, Suryamaninagar, Agartala - 799022, Tripura

The detailed break-up is as given below:

SNo	Institute Name	Non Recurring		Total Release Amount (Rs)
		Equipment	Other	
1	Indian Institute Of Chemical Biology	471000.00	0.00	471000.00
2	Tripura University	1000000.00	0.00	1000000.00

2. The amount of Rs. **1471000.00** /-(Rupees **Fourteen Lakhs and Seventy One Thousand Only**) will be directly credited by the Pay & Accounts Officer, DBT in the account as detailed below:

1. Rs.471000.00/- (Rupees **Four Lakhs Seventy One Thousand Only**) to The Director, Indian Institute Of Chemical Biology, 4, RAJA S.C. Mullick Road, Jadavpur, Kolkata - 700032, West Bengal

Bank Name : State Bank of India
Branch Name : Jadavpur University Branch
A/c No. : 30272881915
IFSC Code : SBIN0000093
MICR Code : 700002048

2. Rs.1000000.00/- (Rupees **Ten Lakhs Only**) to The Registrar, Tripura University, Suryamaninagar, Agartala - 799022, Tripura

Bank Name : State Bank Of India
Branch Name : Tripura University Campus
A/c No. : 30371209938
IFSC Code : SBIN0010495
MICR Code : 799002524

Vanshali

Dr. Vanshali / Dr. VAISHALI PRASAD
Officer / Scientist
Department of Biotech / Dept. of Biotechnology
Ministry of Science & Tech. / Govt. of India
CGO Complex, Lodhi Road, New Delhi-110003

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Page No. [1 / 3]

Chitra
23/09/2019
Coordinator
R & I Cell
Tripura University
Suryamaninagar.

Dr. K.B. Jamatia
Registrar (I/C)
Tripura University
Suryamaninagar

41

Nature: Research
Collaboration
(Joint Project)

Appl. No. BMB/2017/39
Administrative Order

No. BT/PR25104/NER/95/1017/2017
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER-BPMC)

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003

Dated: 26/09/19.

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled: "Study of induction and mechanisms of Autophagy in EAC cells upon treatment with Theaflavins" for a period of 3 Year 0 Month at a total cost of Rs. 7097120 (Rupees Seventy Lakhs Ninety Seven Thousand One Hundred and Twenty Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : "Study of induction and mechanisms of Autophagy in EAC cells upon treatment with Theaflavins"

2.2 Details of the Investigators:

Project Coordinator

Dr. Debasish Maiti

Associate Professor,
Dept. of Human Physiology, Tripura University
Suryamaninagar,, Agartala, Tripura, 799022

Principal Investigators:

Dr. Debasish Maiti

Associate Professor
Dept. of Human Physiology, Tripura University
Suryamaninagar,, Agartala, Tripura, 799022

Dr. Samiran Saha

Assistant Professor
Biotechnology
Visva Bharati University
Department of Biotechnology,
Siksha Bhavana,
Visva-Bharati, Santiniketan, West Bengal, 731235

CO-PI:

Prof. Durgadas Ghosh

Professor
Dept. of Zoology, Tripura University
Suryamaninagar,, Agartala, Tripura, 799022

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28/09/2019
Coordinator
R & I Cell
Tripura University
Surjyamaninagar.

(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

Dr. Vaishali Panjari / Dr. VAISHALI PANJARI
वैशाली पंजारी / Vaishali P.
बायोटेक्नोलॉजी विभाग / Dept. of Biotechnology
विज्ञान और प्रौद्योगिकी / Min. Science & Tech.
भारत सरकार, नई दिल्ली / Govt of India, N. Delhi

Page No. [1 / 7]

Nature: Research
Collaboration
(Joint Project)

Administrative
App. No. MED/2017/36

No. BT/PR24783/NER/95/851/2017
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER-BPMC)

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003
Dated: 28 / 01 / 2019

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled: "INVESTIGATION OF HYDROPHOBICALLY MODIFIED POLYSACCHARIDES FOR NANODELIVERY OF ANTICANCER DRUGS IN THE TREATMENT OF MULTIDRUG RESISTANCE COLON CANCER" for a period of 3 Year 0 Month at a total cost of Rs. 6596400 (Rupees Sixty Five Lakhs Ninety Six Thousand Four Hundred Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : "INVESTIGATION OF HYDROPHOBICALLY MODIFIED POLYSACCHARIDES FOR NANODELIVERY OF ANTICANCER DRUGS IN THE TREATMENT OF MULTIDRUG RESISTANCE COLON CANCER"

2.2 Details of the Investigators:

Project Coordinator

Dr. Pratap Chandra Acharya
Assistant Professor
Department of Pharmacy
Tripura University
Department of Pharmacy, Block-A, Academic building-XI, Tripura
University (A Central University), Suryamaninagar, Agartala, Tripura,
799022

Principal Investigators:

Vinod

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Chitra
23/05/2019
Coordinator
R & I Cell
Tripura University
Suryamaninagar.

1
San
Dr. P. S. Jannalia
Registrar (NC)
Tripura University
Suryamaninagar

43

Nature: Research Collaboration
(Project Grant)

Dr. Pratap Chandra Acharya

Assistant Professor
Department of Pharmacy
Tripura University
Department of Pharmacy, Block-A,
Academic building XI, Tripura
University (A Central University),
Suryamaninagar, Agartala, Tripura,
799022

Dr. Clara Fernandes

Assistant Professor
SPP School of Pharmacy and
Technology Management
Narsee Monjee Institute of
Management Studies, Mumbai
SPP SPTM, SVKM'S NMIMS, V L
Mehta Road, Vile Parle (W) Mumbai,
Mumbai, Maharashtra, 400056

2.3 Objectives:

Overall Objectives:

1. Synthesis, purification and structural characterization of fatty acid based glycolipid derivatives
2. Physicochemical characterization of the glycolipids for its stability and usefulness as a nanocarrier
3. Formulation of the glycolipids in to their nanocarriers
4. Fabrication of developed glycolipid nanocarriers in combination with anticancer drug 5-Fluorouracil
5. Investigation of the glycolipid and the drug loaded nanocarrier to overcome the multidrug resistance in colon cancer and its biological effect on colon cancer cells
6. Investigation of the pharmacokinetic and bio-distribution profile of 5-Fluorouracil from the nanoformulation

Institute wise Objectives:


Narsee Monjee Institute of Management Studies, Mumbai

1. Fabrication of developed glycolipid nanocarriers in combination with anticancer drug 5-Fluorouracil
2. Characterization of nanocarriers and mechanism of overcoming the multidrug resistance in colon cancer

Tripura University

1. Synthesis, purification and structural characterization of fatty acid based glycolipid derivatives
2. Physicochemical characterization of the glycolipids for its stability and usefulness as a nanocarrier.


(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar


23/05/2022
Coordinator
R & I Cell
Tripura University
Suryamaninagar.



Ministry of Culture
Government of India

संगीत
नाटक
अकादेमी

Sangeet
Natak
Akademi



Sangeet Natak Akademi, New Delhi
National Academy of Music, Dance and Drama
(An autonomous body of Ministry of Culture, Government of India)

in collaboration with

Department of Music Tripura University, Agartala (Tripura)

Cordially invites you to

Workshop on Hindustani Vocal Music
Significance of Swara, Raga, Tala & Bandish in Hindustani Music

by

Shrimati Ruchira Kedar, Pune (Maharashtra)
(SNA Ustad Bismillah Khan Yuva Awardee)

&

Workshop on Carnatic Instrumental Music - Mridangam
Aesthetical approach of Tala & Jaati in Carnatic Percussion System

by

Vidwan A. Prem Kumar, Chennai (Tamil Nadu)
(Mridanga Chelvam-Kalaimamani)

5-8 NOVEMBER 2019

(10:00 hrs to 13:00 hrs and 14:30 hrs to 16:30 hrs daily)
Auditorium 2, Academic Building 11, Tripura University, Agartala

Live Webcast:

<https://www.facebook.com/sangeetnatak/>
<https://www.youtube.com/c/sangeetnatak/>

ALL ARE WELCOME

Programme subject to
Enq : 8794737173 / 88

Chala
23/03/2022
Coordinator
R & I Cell
Tripura University
Surjamaninagar.

Dr. K. B. Jaisankar
(Dr. K. B. Jaisankar)
Registrar (I/C)
Tripura University
Suryamaninagar (45)

Minire. Research Collaboration

Workshop on Hindustani Music on the topic "Significance of swara,raga,tala and bandish in Hindustani Music" and Carnatic Music on the topic "Aesthetical approach on Tala and Jaati in Carnatic percussion system" was organized from 5th to 9th November 2019 as a collaborative music education and research project with Sangeet Natak Akademi, New Delhi.

R. Bhattacharya
24/03/2022

Ansari
24/03/2022
HOD (I/C)
Department of Music
Tripura University
A Central University
Suryamaninagar.

The 12th Sattriya Sangeet Samaroh was organized by the Department of Music in collaboration with Sattriya Kendra , Guwahati. In this samaroh, there were performances of lesser known forms of raga music of Assam followed by research paper presentation by eminent scholars. This was a collaborative project of music education and research with Sangeet Natak Akademi, New Delhi.

R. Bhattacharya
24/03/2022

Ansari
24/03/2022
HOD (I/C)
Department of Music
Tripura University
A Central University
Suryamaninagar.

[Handwritten signature]

(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

Sattriya Kendra, Guwahati

(Centre for Sattriya Dance, Music and Theatre Traditions)

of

Sangeet Natak Akademi, New Delhi

(National Akademi of Music, Dance and Drama)

[an autonomous body of Ministry of Culture, Government of India]

in collaboration with

Department of Music, Tripura University, Agartala

12th Sattriya Sangeet Samaroh

(A festival of Sattriya Music Tradition)

দ্বাদশ সত্ৰীয়া সঙ্গীত সমারোহ

সত্ৰীয়া সঙ্গীত পরম্পরাগত উৎসব

18 to 20 September, 2019

Sukanta Academy Auditorium

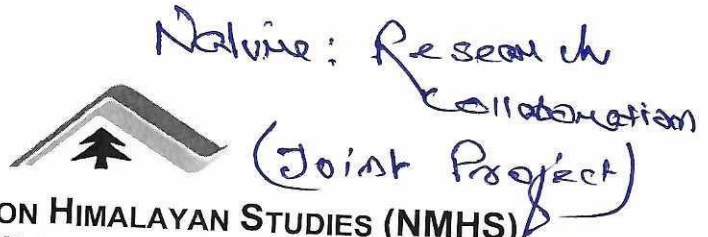
Agartala, Tripura

(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamangal

(41)

23/03/20

Coordinator
R & I Cell
Tripura University
Suryamangal



NATIONAL MISSION ON HIMALAYAN STUDIES (NMHS)
G.B. Pant National Institute of Himalayan Environment (NIHE)
Kosi-Katarmal, Almora - 263643, Uttarakhand, India

Ref. No.: GBPNI/NMHS-2020-21/MG/

Date: 26.06.2020

To,

Er. Vaibhav E. Gosavi
Scientist-C

G.B. Pant National Institute of Himalayan Environment (GBPNIHE)
Kosi-Katarmal, Almora, Uttarakhand-263643

Subject: Approval of the Medium Grant (MG) for the project entitled "Spring Rejuvenation for Water Security in Himalaya"

Sir,

I am directed to convey the approval of the Competent Authority for the above-mentioned project at a total cost of **Rs.4,99,90,911/- (Rupees Four Crore Ninety Nine Lakh Ninety Thousand Nine Hundred Eleven Only)** for a period of three years, as per the break-up given below:-

Head	1 st year (in Rs.)	2 nd year (in Rs.)	3 rd year (in Rs.)	Total grant
A. Recurring				
(i) Salary: 01 JRF @ Rs.31,000/- + HRA @ 8% per month for first two years and Rs.35,000/- + HRA @ 8% for third year. 12 JPF/ Project Assistant @ Rs.20,000/-+ HRA @ 8% or minimum Rs.1,800/- per month for first two years and Rs. 23,000/- + HRA @ 8% per month for third years. 01 Field Assistant @ Rs.12,000/- fix per month for three years.	3684960.00	3684960.00	4174560.00	11544480.00
(ii) Travel(Domestic):	1000000.00	980000.00	760000.00	2740000.00
(iii)Contingency:	810000.00	790000.00	520000.00	2120000.00
(iv)Consumable:	740000.00	740000.00	625000.00	2105000.00
(v) Activities & other project cost: Plantation works-78 (ha), Maintenance of plants, Contour Trenching-12985 nos, Recharge pits-383 nos, Impervious check dams-455 nos, R.R. Dry Check dams-780 nos, Vegetation check dams-2600 nos, Mud/ Stone builds/gully plugging-325 nos, Conical ponds-104 nos, Barbed wire fencing-65000 Meters, Upstream Water storage tank-13 nos, Downstream surplus water storage tank- 13 nos, Survey cost, Awareness programme, watch & ward and others and Meetings and Workshops- 13 nos., field monitoring etc.	10747044.00	10747044.00	3259343.00	24753431.00
B. Non Recurring				
(i) Equipment: Rain Gauges-36 nos Rs.10.80 lakh, Soil Moisture Sensors-36 nos Rs.43.38 lakh, Water Level Recorder-12 nos Rs.1.00 lakh, Laptop/ desktop-1 nos 0.80	6728000.00	0.00	0.00	6728000.00

23/03/2020
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 Tripura University
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*Nature: Research Collaboration
(Project Grant)*

(i) Equipment: Rain Gauges-36 nos Rs.10.80 Lakh, Soil Moisture Sensors-36 nos Rs.43.38 Lakh, Water Level Recorder-12 nos Rs.12.00 Lakh, Laptop/ desktop-1 nos 0.80 Lakh, Camera-1 nos Rs.0.30 Lakh.	6728000.00	0.00	0.00	6728000.00
Grand Total A+B	23710004.00	16942004.00	9338903.00	49990911.00

2. The approval of the project is subject to incorporation of following points:

- Involving local communities, panchayats, State Forest Departments, etc. thru a dedicated Agency should be worked out. As the present project is focused on the 11 states and 1 UT, which will be up scaled later in the water-scarce area in the remote Himalayan region as well thru a separate new scheme. While preparing the "Scheme Document", the Nodal Agency should ensure that there should not be any conflict of interests while implementing the project across the IHR adhering to the timeline
- Policy/practice dimension for utilization of outcome of the project should be clearly brought out in first year before field implementation of the project in consultation with stakeholders.
- A report based on baseline data should be submitted by the project proponent in the **1st quarter of the project** since the initiation of the project. Further, the **Periodic Progress Report** of the NMHS Project along with all the supporting data generated under the NMHS Project needs to be submitted and updated on the Online Portal of the NMHS (<http://nmhsportal.org>) by the PI/ Project Proponent on **Quarterly basis** consistently. Monitoring indicators reported for the project should be able to quantify the difference made on ground.
- A Certificate should be provided that this work is not the repeat of earlier work (as a mandatory exercise).
- The roles and responsibilities of each implementing partners should be delineated properly with their budget. The budget allocations to partners should be done in accordance with the MoEF&CC guidelines (Max. 30% for salary, 30% for equipment and 5% contingency). The same should be communicated to NMHS-PMU, before start of the project.
- On completion of the study, a Seminar/ Conference/ Workshop should essentially be organized by the PI/ Proponent to discuss and disseminate the findings among the experts and concerned beneficiaries/stakeholders.

3. The Project Objectives, Quantifiable Deliverables and Monitoring Indicators are as follows:

Project Objectives	Quantifiable Deliverables	Monitoring Indicators
<ul style="list-style-type: none"> • To develop at least one <i>Jal Abhyaranya</i> demonstration model in each Aspirational District of all 12 Himalayan States • To promote replication of field model for rejuvenation of drying springs in the Himalayan States through Technology and Community based approaches for providing water security to local communities in collaboration with state agencies 	<ul style="list-style-type: none"> • Primary database for springs from all 12 Aspirational Districts • Secondary data for spring locations, discharges and water quality parameters • Village-wise maps of springs using handheld GPS/Mobile App and preparation of geo-database using RS-GIS platform • Fully functional field intervention models for spring rejuvenation and water sanctuary (<i>Jal Abhyaranya</i>) in selected 12 Aspirational Districts of the IHR • Policy for replication of field model for rejuvenation of drying springs in the Himalayan States through Technology and Community based approaches in collaboration with state agencies • Knowledge products in the form of research manuals, SoPs, reports, manuals, maps (watershed, hydro-geological) etc. 	<ul style="list-style-type: none"> • Number of spring database for parameters related to spring rejuvenation (Nos. of springs/districts covered) • Number of RS-GIS and other maps (Nos.) • No of functional models developed • Number of beneficiaries village/ local people including SC/ST (Nos.) • No. of SoPs/Reports/ Research articles/Policy documents prepared and published (Nos.)

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23/01/2020
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R & I Cell
Tripura University
Surjamaninagar.

*Nature Research
Collaboration
(Joint Project)*

DST/NM/NB/2018/203(G) (JMI)
Government of India
Ministry of Science & Technology
Department of Science & Technology

Technology Bhavan
New Mehrauli Road
New Delhi -110 016
Dated: 17/01/2020

ORDER

Subject: Financial support for the research project entitled "*In vivo Central Venous Catheters associated biofilm infection surface treatment using nanomaterials NMs to decrease the thrombotic and infection risks*" by Dr. Ashwini Chauhan, Assistant Professor, Department of Microbiology, Tripura University, Tripura-799022 – approval & part release of 1st installment of General grants .

Sanction of the President is accorded to the above mentioned project at a total cost of Rs. 23,97,696/- (Twenty Three Lakh Ninety Seven Thousand Six Hundred Ninety Six Only) for a duration of 3 years with the total grant under "General" expenditure head. The detailed break-up of the grant is given below:

(Amount in Rupees)

Budget Head	1 st year	2 nd year	3 rd year	Total
Manpower-as per DST norms1 JRF @ Rs 31,000(for 2 years)+ Rs 35000(for 1year) + HRA@24% for 3 years	4,61,280	4,61,280	5,20,800	14,43,360
Consumables				
National Travel	1,50,000	1,50,000	1,50,000	4,50,000
Contingencies	50,000	50,000	50,000	1,50,000
Sub-total	50,000	50,000	50,000	1,50,000
Overhead Charges (@10% of Total project cost excluding contingencies)	7,11,280	7,11,280	7,70,800	21,93,360
Total	66,128	66,128	72,080	2,04,336
	7,77,408	7,77,408	8,42,880	23,97,696

- The sanction of the President is also accorded to the release of Rs. 1,00,000/- (One Lakh Only) to The Registrar, Jamia Milia Islamia(JMI), Central University, Jamia Nagar, New Delhi-110025 being the part release first installment of the grant under 'Grants-in-aid General' for implementation of above mentioned project.
- This sanction is subject to the condition that the grantee organization will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the Performa prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned / accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.
- The grantee organization will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final instalment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.
- Since the grant has been released only under General head through one sanction order the Institute has to furnish SE/UC for the grants released through General head only.
- The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. For Grants released during F.Y. 2017-18 and onwards, all interests and other earnings, against released Grant shall be remitted to Consolidated Fund of India (through Non-Tax Receipt Portal (NTRP), i.e., www.Bharatkosh.gov.in), immediately after finalization of accounts, as it shall not be adjusted towards future release of grant. A certificate to this effect shall have to be submitted along with Statement of Expenditure/ Utilization Certificate for considering subsequent release of grant/ closure of project accounts.

The grant-in-aid being released is subject to the condition that:

- A transparent procurement procedure in line with the Provisions of General Financial Rules 2017 will be followed by the Institute/Organization under the appropriate rules of the grantee organisation while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organization immediately on receipt of the grant.
- While submitting Utilization Certificate/Statement of Expenditure, the organization has to ensure submission of supporting documentary evidence with regard to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.
- The Institute/Organization reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.

23/1/2020
Coordinator
R & I Cell
Tripura University
Jamshaidpur

Registrar (I/C)
Tripura University

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Nature: Research Collaboration (Project Grant)

4. Sanction of the Competent Authority is also hereby conveyed for the release of **Rs.2,37,10,004/- (Rupees Two Crore Thirty Seven Lakh Ten Thousand Four Only)** towards Grants-in-Aid to **The Director, G.B. Pant National Institute of Himalayan Environment (GBPNIHE), Kosi-Katarmal, Almora, Uttarakhand-263643** for the aforementioned NMHS-MG project for the Financial Year 2020-21 Plan/recurring being the 1st installment of grants as per the following break-up.

Expenditure Head	Amount (INR)
A : Recurring (as Above)	
(i) Salary:	3684960.00
(ii) Travel	1000000.00
(iii) Contingency:	810000.00
(iv) Consumable:	740000.00
(v) Activities & other project cost(as above):	10747044.00
B. Non Recurring	
(i) Equipment(as above):	6728000.00
Total A+B	23710004.00

5. The Grants-in-Aid will be regulated in accordance with the provisions contained in the guidelines of the Ministry of Environment, Forest & Climate Change, New Delhi. The Grants-in-aid is also subject to Chapter 9 of the General Financial Rules (GFRs), 2017, as amended from time-to-time, read with Government of India's decisions incorporated there under and any other guidelines which may be issued in this regard, and in particular to the following conditions:-
- A separate ledger is maintained for the purchasing of equipments/Instruments as per the provision of GFRs.
 - Engagement of staff as per the provision of GFRs and MoEF&CC guidelines given in **Appendix A**. The emoluments for the retired persons hired for the project should not exceed **Rs. 30,000/- consolidated (fixed) per month** as stipulated in the MoEF&CC guidelines.
 - Expenditure on items other than salary is incurred keeping in view the austerity measures issued on the subject, and GFR is followed by the Institute as well as regional office and other agencies receiving funds.
 - All account maintained by the concerned Organization will be subject to audit by the C&AG or internal auditors. On termination of the project, statements of accounts duly certified by the Competent Authority of the Organization shall be submitted and the unspent balance, if any, in the funds sanctioned will be refunded to G.B. Pant National Institute of Himalayan Environment (GBPNIHE), Kosi-Katarmal, Almora, Uttarakhand.
 - No cash payment is made exceeding Rs. 20,000/- to anybody for any expenditure. The taxes and dues are recovered and deposited in Government Account as per law.
 - The 2nd installment will be considered only after review of progress and the expenditure of 80% of the 1st installment released and on submission of the latest UC as per GFR format along with the Statement of Expenditure (item-wise) and signed duly by the Competent Authority. The UC shall also be verified and signed by the Chartered Accountant/Finance Officer along with the cash flow statement.
 - The UC shall be submitted along with up-to-date physical progress report (annual/ half yearly/quarterly) indicating progress made against each objective and quantifiable deliverables, both online on NMHS web portal <http://nmhsportal.org> and offline hardcopy via speed post, certified by the authorized person, along with data, photographs/satellite pictures, etc.
 - Assets acquired wholly or substantially out of Government grants shall not be disposed of without obtaining the prior approval of the sanctioning authority of Grants-in-aid, and a separate sheet should be enclosed with details of Assets with cost.

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23/03/2022
Coordinator
R & I Cell
Tripura University
Surjamaninagar.

Dr. K. B. Jamatia
Registrar (I/C)
Tripura University
Surjamaninagar

(5)

Nature: Research Collaboration
(Project Grant)

- IX. The accounts of concerned Organization shall be audited by C&AG or by any person/agency authorized by it on its behalf in accordance with the provisions laid down in Section 14 of the C&AG (DPC) Act, 1971 as amended from time-to-time.
- X. The internal audit party of the Principal Accounts Office of the Ministry or Department may also inspect the accounts whenever it is called upon to do so.
- XI. The Grants-in-aid will be spent exclusively in pursuance of the objectives for the project entitled "**Spring Rejuvenation for Water Security in Himalaya**" as given above and for the purpose it is being sanctioned.
- XII. The Grants-in-aid is subject to the Economy Instruction(s) issued from time-to-time by the Ministry of Finance or by the Competent Authority.
- XIII. The sanction of the NMHS grant is subject to compliance with the Terms and Conditions given in **Annexure-I** and duly signing of the Bond with NMHS-PMU in the prescribed format (**Appendix B**). Compliance of all conditions mentioned in the Bond and **Annexure I** must be ensured.
- XIV. On the basis of the Terms and Conditions given in **Annexure-I**, action is being taken up for the drawal of the sanctioned amount of the first installment of the first year's grant during the Financial Year 2020-21.
- XV. The sanction of the grant is subject to the whole details with nature of work of this project under "National Mission on Himalayan Studies (NMHS)" clearly mentioned in the website/all knowledge products of the Grantee.
- XVI. A **separate saving bank account** is to be opened for NMHS Project as per the provision Direct Beneficiary Account (DBA)/ Direct Benefit Transfer (DBT) as laid out by the Govt. of India, with facilitation of the audit of accounts as and when required. The interest earned out of the NMHS project Grant should be reported clearly in the latest Utilization Certificate (UC).
- XVII. The Project commissioned under "National Mission Himalayan Studies-Medium Grant" would be for the **tenure of three years w.e.f. 15.07.2020**. There should not be any time and cost overrun in the NMHS project.
- XVIII. As per the directive of the Govt. of India, the implementing agency should be registered online on **Public Financial Management System (PFMS)**. After registration on the PFMS (accessible at <https://pfms.nic.in/Users/LoginDetails/NewlayoutLogin.aspx>), please provide the Unique Code for further needful.
- XIX. The amount of **Rs.2,37,10,004/- (Rupees Two Crore Thirty Seven Lakh Ten Thousand Four Only)** will be drawn by the Drawing and Disbursing Officer, G.B. Pant National Institute of Himalayan Environment (GBPNIHE), Kosi-Katarmal, Almora (U.K.) and disbursed to **The Director, G.B. Pant National Institute of Himalayan Environment (GBPNIHE), Kosi-Katarmal, Almora, Uttarakhand-263643** through bank by ECS. The Grantee will open a **new saving Bank Account** in a nationalized bank and send the following details to NMHS-PMU for release of the NMHS Grant.
- | | |
|----------------|---|
| Bank Name | - |
| Account No. | - |
| IFSC Code | - |
| Account Holder | - |

6. The amount will be debited in the Major Head 3435.03.104.11.04.31 Grant-in-Aid-General-NMHS.

7. **Please send your acceptance with the Terms and Conditions of this NMHS Grant sanction letter so that aforementioned grant could be transferred to the Head of Implementing Agency through Bank transfer on the designated account.**

8. Please note that following documents must be submitted before the start of the project activities.

1. **Quotations for the equipments/instruments to be procured.**

23/08/2020
Coordinator
R & I Cell
Tripura University
Surjamaninagar

- Nature: Research Collaboration*
2. Roles and responsibilities of the partners with the budget allocated to each of them.
 3. Original copy of Bond duly signed by authorized person of grantee (Rs. 100 stamp paper)

Encl.: Annexure-I
Appendix- A
Appendix- B

Yours Sincerely,



(Kireet Kumar)
Scientist 'G' & Nodal Officer
NMHS-PMU, GBP NIHE

Copy to:

1. The Director, G.B. Pant National Institute of Himalayan Environment (GBPNIHE), Kosi-Katarmal, Almora, Uttarakhand-263643
2. Dr. Shard Sapra, Scientist-'E', Director, Mountain Division CS-I, 2nd Floor, Vayu Wing, Indira Paryavaran Bhawan, Ministry of Environment, Forest & Climate Change (MoEF&CC), Jorbagh Road, Aliganj, New Delhi-110003
3. PS to Director, G.B. Pant National Institute of Himalayan Environment (GBPNIHE), Kosi-Katarmal, Almora, Uttarakhand-263643
4. Finance Officer, G.B. Pant National Institute of Himalayan Environment (GBPNIHE), Kosi-Katarmal, Almora, Uttarakhand-263643
5. Principal Director of Audit, Scientific Department, AGCR Building, IP Estate, New Delhi-110002
6. Database team, NMHS-PMU
7. Guard File – NMHS.


23/03/2022
Coordinator
R & I Cell
Tripura University
Suryamaninagar.


(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

Table: Budget break-up for 3 years

Items	UK (GBPI)	HP	WB	Manipur	Meghalaya Nagaland	Sikkim (GB Assam)	Tripura	Mizoram	AP	JK	Total
A. Manpower											
1	764640	207360	207360	207360	207360	207360	207360	207360	207360	207360	304560
2	764640	207360	207360	207360	207360	207360	207360	207360	207360	207360	304560
3	842400	233280	233280	233280	233280	233280	233280	233280	233280	233280	340848
Total	2371680	648000	648000	648000	648000	648000	648000	648000	648000	648000	949968
B. Consumable											
1	80000	60000	60000	60000	60000	60000	60000	60000	60000	60000	74000
2	80000	60000	60000	60000	60000	60000	60000	60000	60000	60000	74000
3	75000	50000	50000	50000	50000	50000	50000	50000	50000	50000	62500
Total	235000	170000	170000	170000	170000	170000	170000	170000	170000	170000	210500
C. Contingency											
1	150000	60000	60000	60000	60000	60000	60000	60000	60000	60000	81000
2	130000	60000	60000	60000	60000	60000	60000	60000	60000	60000	79000
3	80000	40000	40000	40000	40000	40000	40000	40000	40000	40000	52000
Total	360000	160000	160000	160000	160000	160000	160000	160000	160000	160000	212000
D. Travel											
1	120000	80000	80000	80000	80000	80000	80000	80000	80000	80000	100000
2	100000	80000	80000	80000	80000	80000	80000	80000	80000	80000	98000
3	100000	60000	60000	60000	60000	60000	60000	60000	60000	60000	76000
Total	320000	220000	220000	220000	220000	220000	220000	220000	220000	220000	274000
E. Activities and other (E1 & E2)											
E1. Treatment											
1	1116009.36	1217380	1127056	1179138	1133587	1113435	1261033	1170811	1261228	1127056	1412704
2	1116009.36	1217380	1127056	1179138	1133587	1113435	1261033	1170811	1261228	1127056	1412704
3	248002.08	270528.9	250456.9	262030.6	251908.2	247430.1	280229.6	260180.1	280273	250456.9	313934
Total	2480021	2705289	2504569	2620306	2519082	2474301	2802296	2601801	2802728	2504569	3139343
E2. Other											
1	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	12000
2	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	12000
3	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	12000
Total (E1 & E2)	2510021	2735289	2534569	2650306	2549082	2504301	2832296	2631801	2832728	2534569	36000
F. Overhead (8%											
G. Equipments											
One time	6728000	0	0	0	0	0	0	0	0	0	50000
Grand total	12524701	3983289	3782569	3898306	3797082	3752301	4080296	3879801	4080728	3782569	5544611

Contribution requested from NMHS = 90% = Rs. 4,99,01,499/- (Rs. 4.99 Cr.)
 Contribution requested from GBPI = 10% = Rs. 55,44,611/- (Rs. 55.44 Lakh)

23/12/2022
 Coordinator
 R & I Cell
 Tripura University
 Suryamanjari

K. B. Jamatia
 Registrar (I/C)
 Tripura University
 Suryamanjari

Appendix II

Nature: Research Collaboration
 (Project Grant)



DST/CCP/MRDP/190/2019(G)
Government of India
Ministry of Science & Technology
Department of Science & Technology
(SPLICE- Climate Change Programme)

*Native:- Research
Collaboration
(Joint Project)*

Technology Bhavan, New Delhi
Dated 22.01.2020

ORDER

Sub: Research proposal on establishment of a Major R&D Programme titled "Net ecosystem production and carbon dynamics of forest ecosystems in North East India in relation to altitude and latitude gradient: Implications for carbon sink management" to be coordinated by Mizoram University, Aizawl - 796004, Mizoram (PI-Dr. Uttam Kumar Sahoo) under the National Mission for Sustaining the Himalayan Ecosystem (NMSHE) -Approval of the proposal and release of grants for the first year.

Sanction of the President is hereby accorded to the approval of the above mentioned project at a total cost of Rs. 1,86,52,640/- (Rupees one crore eighty six lakhs fifty two thousand six hundred forty only) for a duration of three years. The detailed breakup of the grant for General as well as Capital components and the items of expenditure as approved are given as below:-

General Component Rs. 1,55,52,640/-
Capital Component Rs. 31,00,000/-

Items of expenditure as approved:

Head	I Yr	II Yr	III Yr	Total
<u>Non- Recurring</u>	Rs.	Rs.	Rs.	Rs.
LI -8100 soil CO2 flux unit# (01)	1500000	--	--	1500000
Computer and accessories (01)	100000	--	--	100000
LI -8100 soil CO2 flux unit (01)	1500000	--	--	1500000
Non-Recurring Total (A)	3100000	0	0	3100000
<u>Recurring</u>				
Manpower {RA-III (02 Nos.), JRF (02 Nos.), Field Worker (04 Nos.)}	3136320	3136320	3240000	9512640
Consumables	460000	590000	590000	1640000
Travel	500000	700000	700000	1900000
Contingencies	120000	120000	160000	400000
Other Costs	300000	250000	200000	750000
Organizing Workshop	150000	0	0	150000
Sub total	4666320	4796320	4890000	14352640
OH charges	400000	400000	400000	1200000
Recurring Total (B)	5066320	5196320	5290000	15552640
Grand Total (A+B)	8166320	5196320	5290000	18652640

Institution 1: Mizoram University

Head	I Yr	II Yr	III Yr	Total
<u>Non- Recurring</u>	Rs.	Rs.	Rs.	Rs.
LI -8100 soil CO2 flux unit# (01)	1500000	--	--	1500000
Non-Recurring Total (A)	1500000	--	--	1500000
<u>Recurring</u>				

Chala
23/03/2022
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Suryamaninagar

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*Nature: Research Collaboration
(Project Grant)*

Research Associate-III (01Nos.) @54000/Month + HRA 8%	699840	699840	699840	2099520
Field Worker-I (01 Nos.) @18000/Month + HRA 8%	233280	233280	233280	699840
Consumables	180000	270000	270000	720000
Travel	150000	250000	250000	650000
Contingencies	30000	30000	40000	100000
Other Costs	75000	75000	50000	200000
Organizing Workshop	150000	0	0	150000
Sub total	1518120	1558120	1543120	4619360
OH charges	100000	100000	100000	300000
Recurring Total (B)	1618120	1658120	1643120	4919360
Grand Total (A+B)	3118120	1658120	1643120	6419360

Institution 2: Assam University

Head	I Yr	II Yr	III Yr	Total
<u>Non- Recurring</u>	Rs.	Rs.	Rs.	Rs.
Computer and accessories (01)	100000	--	--	100000
LI -8100 soil CO2 flux unit (01)	1500000	--	--	1500000
Non-Recurring Total (A)	1600000	--	--	1600000
<u>Recurring</u>				
Research Associate-III (01Nos.) @54000/Month + HRA 8%	699840	699840	699840	2099520
Field Worker-I (01 Nos.) @18000/Month + HRA 8%	233280	233280	233280	699840
Consumables	180000	270000	270000	720000
Travel	150000	250000	250000	650000
Contingencies	30000	30000	40000	100000
Other Costs	75000	75000	50000	200000
Sub total	1368120	1558120	1543120	4469360
OH charges	100000	100000	100000	300000
Recurring Total (B)	1468120	1658120	1643120	4769360
Grand Total (A+B)	3068120	1658120	1643120	6369360

Institution 3: Tripura University

Head	I Yr	II Yr	III Yr	Total
<u>Recurring</u>	Rs.	Rs.	Rs.	Rs.
JRF (01 Nos.) @31000/Month + HRA 8% for 1st & 2nd year and SRF (01) @35000/Month + HRA 8% for 3rd year	401760	401760	453600	1257120
Field Worker (01 Nos.) @18000/Month + HRA 8%	233280	233280	233280	699840
Consumables	100000	50000	50000	200000
Travel	100000	100000	100000	300000
Contingencies	30000	30000	40000	100000
Other Costs	75000	50000	50000	175000
Sub total	940040	865040	926880	2731960
OH charges	100000	100000	100000	300000
Recurring Total (B)	1040040	965040	1026880	3031960

(Signature)
23/03/2023
Coordinator
R & I Cell
Tripura University
Ujjainmaninagar

(55) A.

(Dr. B. Jaisankar)
Registrar (R&I)
Tripura University
Ujjainmaninagar

*Nature: Research Collaboration
(Project Grant)*

-2-

9. This project does not provide for any payment of honorarium/ remuneration/ fellowship/ scholarship to the PI.
10. The account of the grantee organization shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organization is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017.
11. Due acknowledgement of technical support / financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organization in bold letters in all publications / media releases as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.
12. Failure to comply with the terms and conditions of the Order will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.
13. The expenditure involved is debited to:

Demand No.86: Department of Science & Technology for the year 2019-20:

3425	Other Scientific Research (Major Head)
60	Others
60.200	Assistance to Other Scientific Bodes (Minor Head)
69	Research and Development
69.00.31	Grants-in-aid General for the year 2019-20 (Nano Mission 3425.60.200.36.00.31)

14. The amount of **Rs. 1,00,000/- (Rupees One lakh only)** will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to **The Registrar, Jamia Milia Islamia(JMI), Central University, Jamia Nagar, New Delhi-110025**. The bank details for electronic transfer of funds through RTGS are given below:

1.	Name of the Account Holder	Registrar, Jamia Milia Islamia
2.	Name of the Bank	Indian Bank
3.	Bank Account Number	443259891
4.	IFSC Code	IDIB000J029
5.	MICR Code	110019041

16. As per Rule 234 of GFR 2017, this sanction has been entered at S. No. 131 **NMD** in the register of grants maintained in the Division for the scheme Nano Mission.

17. This issues with the concurrence of IFD Vide their **Dy.No. C/ 5162 / IFD 2019-20** dated 17/01/2020

(Signature)
(Namrata Pathak)
Scientist-F

To,
The Pay & Accounts Officer, DST

Copy forwarded for information and necessary action to:

- Drawing and Disbursing Officer, DST, Cash Section. (Copy with two spare copies)
- Integrated Finance Division, DST

3. Dr. Ashwini Chauhan Assistant Professor Department of Microbiology, Tirupura University, Tirupura-799022	4. Registrar Tirupura University, Tirupura-799022
5. Dr. Manika Khanuja Assistant Professor Nano Science and Nano Technology, Jamia Milia Islamia (JMI), Central University, Jamia Nagar, New Delhi - 110025	6. Registrar Jamia Milia Islamia (JMI), Central University, Jamia Nagar, New Delhi - 110025

7. The Principal Director of Audit, Scientific Departments, Illrd floor, AGCR Building, I.P. Estate, New Delhi- 110 002.

6. Sanction folder (Nano Mission)	7. File copy
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(Signature)
23/03/2022
Coordinator
R & I Cell
Tripura University
Surjamaninagar.

(Signature)
(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

(Signature)
(Namrata Pathak)
Scientist-F

NAWA: Research
& Technology
implementation



MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL
(Formerly WEST BENGAL UNIVERSITY OF TECHNOLOGY)
Main Campus: NH 12, Haringhata, Post Office - Simhat, Police Station – Haringhata, Pin - 741249
City Campus: BF-142, Sector -I, Salt Lake, Kolkata -700 064

No.2.12.14/Regis./MTG(SRC)/2020

Dated: 15.12.2020

To,
Dr. Shaon Ray Chaudhuri,
Associate Professor, Department of Microbiology,
Tripura University, Suryamaninagar, Agartala, Tripura, Agartala, Pin: 799022.

Dear Madam,


With reference to your email addressed to Hon'ble Vice-Chancellor, I am pleased to inform you that your proposal for collaborative work between Microbial Technology Group (Tripura University) and COEETM (Centre of Excellence in Environmental Technology and Management" of MAKAUT, WB has been accepted by the Competent Authority for implementation with respect to working on treatment at the Sewerage Treatment Plant (STP) developed at the Haringhata Campus of the university for nutrient removal (ammonia and nitrate). For expediting the work on the proposal floated by you, a Task Force has been constituted in the manner as noted below:

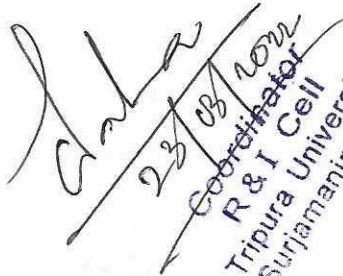
1. Dr. Indranil Mukherjee - Convenor
2. Dr. Ananta Das
3. Dr. Chabita Saha
4. Dr. Sharadindu Chakrabarty
5. Dr. Shaon Roy Chaudhuri


You are requested to proceed for implementation of your proposal in coordination with the Task Force constituted. The working of the Task Force shall be with immediate effect from the date of issuance of this letter.

Thanking you,

With regards,


Dr. Partha Pratim Lahiri,
Registrar, MAKAUT, WB.


23/08/2020
Coordinator
R & I Cell
Tripura University
Suryamaninagar.


(Dr. K.B. Jamatia)
Registrar (I/C)
Tripura University
Suryamaninagar

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