



उन्नत भारत अभियान  
ग्रामीण विकास एवं प्रौद्योगिकी केंद्र  
भारतीय प्रौद्योगिकी संस्थान, दिल्ली  
हौजखास, नयी दिल्ली- 110016



UNNAT BHARAT ABHIYAN  
INDIAN INSTITUTE OF TECHNOLOGY, DELHI  
National Coordinating Institution

Address: V-405, IIT Delhi Main Rd, Block 5, Hauz Khas, New Delhi, 110016

Tel: +91-11-2659 1121/1157, Fax: +91-11-2659 1121

Email: [unnatbharatabhiyan@iitd@gmail.com](mailto:unnatbharatabhiyan@iitd@gmail.com)

Date: October 18, 2022

To

**Dr. Parnasree Chakraborty**

**B.S. Abdur Rahman Institute of Science and Technology**

**Subject:** Financial Sanction of Technical Intervention project (No. RP-03525G) under UBA 2.0

Dear Sir/Madam

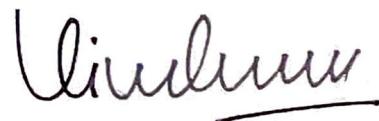
1. This is to intimate you that Technology Intervention proposals under the category of “Technology Customization”: Project-No: RP-03525G entitled, “Solar based bird bangers for protecting the chicks in poultry farm” submitted by you under the *Unnat Bharat Abhiyan 2.0 Program*, has been approved by Others SEG and funded by the National Coordinating Institute UBA 2.0 (IIT Delhi) against UTR No. : SBIN322207939405 vide dated 26/07/2022.
2. You can use the grant for fulfilling the project objectives under the approved heads as per the proposal, using the established procedure of your institute and as per the UBA guidelines, within 6 months from the date of receiving of funds. Kindly note that the utilization of funds allowed under the head “General Contingency” should not be more than 10% of the total sanctioned fund.

**Note:** TA/ Honorarium is strictly not permitted in this project.

3. Any product/service developed under the sanctioned project must have UBA logo on it.
4. Detailed information of faculty in-charge and students/volunteers, who will be coordinating/ working under the sanctioned project, shall be shared in the project report submitted by your institution.
5. The project implementation location/site shall be selected in consideration with gram panchayat officials/ members.
6. Please take care that the position holders/Panchayat officials shall not be benefitted in person. Also, ensure that the project shall not be controversial in terms of beneficiaries. Selection of beneficiaries shall include the Marginalized communities or EWS Category as well.

7. Few videos and images shall be shared to the SEG Coordinator (for updating the status of the project), also the report shall contain good quality pictures of the project site/product/service and feedback from the villagers/beneficiaries.
8. For the projects related to training camps, awareness, rally etc., the in-charge shall share the material/posters/modules to be used in the villages, for the knowledge of SEG Coordinator and further comments, if any.

You are required to submit the completion report/5-6 photographs/3 min videos of the project within two months after the completion of the project to the competent authority of NCI-IIT Delhi, UBA2.0 cell. Without the submission of the completion report, the opportunity for funding of a new project will not be facilitated.



**Prof. Vivek Kumar**

National SEG Coordinator

Unnat Bharat Abhiyan (UBA 2.0)

National Coordinating Institute

Indian Institute of Technology, Delhi

### Shortlisted Proposals under SEG: Others - Technology Customization

Sr. No.	Project Title	Institute Name	AISHE Code	Funds Requeste d (Rs.)	Email & Contact No
1	Electronics repairing and e-waste collection system	Indian Institute of Technology (BHU) Varanasi	U-0701	50,000	kksingh.met@iitbhu.ac.in 9956949289
2	Installation of Lighting Arrestor (LA).	Sandip Institute of Technology and Research Centre, Nashik	C-41520	50,000	principal@sitrc.org 8888870943
3	Bio Toilet: An Ecological Initiative	(IIT Delhi)	C-33895	50,000	manisha.joshi@ves.ac.in 8879287898
4	To provide sanitary napkin vending machine to girls and womens in adopted villages (An initiative to improve health status of the adolescent girls and women in rural areas)	KVPS, Maharani Ahilyabi Holkar College of Pharmacy, Boradi	S-10759	--	satishpatil269@gmail.com 8378006465
5	Design and Development of Banana Fiber Extractor Machine	G. H. Raisoni College of Engineering, Nagpur	C-18817	55,248	kuldeep.dabhekar@raisoni.net 9890920901
6	Propagation of Mushroom Farming	Government PG College, Maldevta, Raipur, Dehradun	C56755	--	madhuthapliyal@gmail.com 7579045745
7	Small shed LIGHT STRAW CLAY WALL CONSTRUCTION	St.Thomas Institute for Science and Technology	43651	50,000	tonyalwin@gmail.com 9446114808
8	Design and Development of Cocopeat and Biomass making machine	G. H. Raisoni College of Engineering, Nagpur	C-18817	55,000	kuldeep.dabhekar@raisoni.net 9890920901
9	E-Dhan Jagriti “Aarthik unnati, taknik k sath”	G L BAJAJ INSTITUTE OF MANAGEMENT AND RESEARCH	C-57948	50,000	arvind.bhatt@glbimr.org 9891475818
10	Herbal Medicine Awareness and its Training on production In increasing Health & Social Status of Temporary Migrant Workers.	St.Josephâ€TM's College, Tiruchirappalli-620002	C-35860	60,000	bmansj@gmail.com 9445103040
11	IoT based Hydroponic system	Buddha Institute of Technology	C-46768	70,000	ic@bit.ac.in 9794849804

12	Enhancing livelihood of Inhabitants of Chattarpur Village via Process standardization and Value Addition of Traditional Food (Seera).	JAMIA HAMDARD	U-0107	1,00,000	aalam@jamiahAMDARD.ac.in 9891971999
13	Dairy Connect Mobile App	Kristu Jayanti College	c-26053	50,000	sreedharpd@kristujayanti.com 9448123187
14	A profit-oriented Project of Paddy Straw Mushroom for Rural Household	Siksha O Anushandhan University, Bhubaneswar, Odisha	U-0363	50,000	nachiketasharma@soa.ac.in 9337056586
15	Solar based bird bangers for protecting the chicks in poultry farm	B.S.ABDUR RAHMAN INSTITUTE OF SCIENCE AND TECHNOLOGY	U-0445	50,000	prernasree@crescent.education 9884083532
16	Design and Fabrication of Rapid Milk-Can Chilling Jacket for Rural Development	Swami Keshvanand Institute of Technology, Management & Gramothan	25123	48,000	dinesh.sharma@skit.ac.in 9785449998

(2)



UCSIU/CERVIE/REIG/Approval Letter/2022\_063

Date: 1 December 2022



Asst. Prof. Dr. Sasikala Chinnappan  
 Faculty of Pharmaceutical Sciences  
 UCSI University, Jalan Menara Gading  
 56000 Cheras,  
 Kuala Lumpur, Malaysia.

Dear Asst. Prof. Dr. Sasikala Chinnappan,

#### UCSI University Research Excellence & Innovation Grant (REIG) Approval Notification

With regards to your recent Research Excellence & Innovation Grant (REIG) application, I am pleased to inform you that the Centre of Excellence for Research, Value Innovation and Entrepreneurship (CERVIE) has approved your research project entitled, "Evaluation of Herbal Tea for The Treatment of Urolithiasis" with a total amount allocation of RM 50,000.00. The duration of the research project is 24 months, from 1 December 2022 to 30 November 2024 and the co-researchers of the research project are:

1. Asst. Prof. Dr. Ravishankar Ram Mani, Co-PI (UCSI University)
2. Assoc. Prof. Dr. Wong Chen Wal (UCSI University)
3. Prof. Dr. Anil Kumar (Panjab University, India)
4. Assoc. Prof. Dr. Venkatalakshmi Ranganathan (Crescent Institute of Science and Technology, India)

Please note that your assigned project code is REIG-FPS-2022/063 and should be used for all fund disbursements. The allocation will be disbursed as follows:

Year 1 : RM 45,000.00

Year 2 : RM 5,000.00

Below are the research outputs to be achieved:

Research publications : Two (2) WoS/Scopus-Indexed publication in peer-reviewed journals

Talent development : One (1) Masters (by research) student

Intellectual Property (IP) : N/A

Kindly note that you are required to submit a progress report every six months. By accepting the REIG fund, you would have read the REIG policy and have agreed with its terms and conditions.

We wish you all the best in this research project.

UCSI Education Sdn. Bhd. [P98001008177 (185479-U)]  
 Website: [www.ucsiuniversity.edu.my](http://www.ucsiuniversity.edu.my)

Kuala Lumpur Campus  
 No.1, Jalan Menara Gading  
 UCSI Heights  
 56000 Kuala Lumpur  
 Tel: +603-9101 8880  
 Fax: +603-9102 3606

Terengganu Campus  
 Bukit Khor, PT 11065,  
 Mukim Rusila, 21600 Marang,  
 Terengganu Darul Iman, Malaysia.  
 Tel: +609-628 1880  
 Fax: +609-628 1885

Kuching Campus  
 Lot 2976, Block 7, Muara Tebas  
 Land District, Sejingtak,  
 93450 Kuching, Sarawak, Malaysia.  
 Tel: +6082-596 965  
 Fax: +6082-596 975

Springhill Campus (Port Dickson)  
 No. 2, Avenue 3, Persiaran Springhill,  
 71010 Port Dickson, Negeri Sembilan,  
 Malaysia.  
 Tel: +606-648 8888

Thank you.

Regards,



**Assoc. Prof. Ts. Dr. Lionel Ih Lian Aun**  
Director

**Centre of Excellence for Research, Value Innovation and Entrepreneurship (CERVIE)**  
**UCSI University**

c.c.: **Dean, Faculty of Pharmaceutical Sciences (Via Email)**

**Head of Research, Faculty of Pharmaceutical Sciences (Via Email)**

**Group Finance Office (Via Email)**

**Co-Researchers:**

1. **Asst. Prof. Dr. Ravishankar Ram Mani, Co-PI (UCSI University)**

2. **Assoc. Prof. Dr. Wong Chen Wai (UCSI University)**

3. **Prof. Dr. Anil Kumar (Punjab University, India)**

4. **Assoc. Prof. Dr. Venkatalakshmi Ranganathan (Crescent Institute of Science and Technology, India)**

## PROJECT HISTORY

**Project Title:**

The efficiency of nanoemulsion-based nutrient delivery systems in next-generation shrimp feeds with emphasis on nutraceutical and final product quality [BT/PR47396/AAQ/3/1049/2022]

**Name of Coordinator:**

Dr. Kumaraguru vasagam KP ,ICAR-CENTRAL INSTITUTE OF BRACKISH WATER AQUACULTURE

**Date of submission:**

14/07/2022

**PI Details:****(1) Dr. Kumaraguru vasagam KP**

Institute: ICAR-CENTRAL INSTITUTE OF BRACKISH WATER AQUACULTURE

Address: Principal Scientist

Nutrition Section- NGBD

Central Institute of Brackishwater Aquaculture (CIBA)

#75, Santhome High Raod,

MRC Nagar, R.A. Puram, Chennai- 28

City: Chennai

Pin: 628008

**(2) Dr. Karthikeyan Ramalingam**

Institute: B.S. Abdur Rahman Crescent Institute of Science and Technology

Address: BSA Crescent Institute of Science and Technology, Seethakathi Estate, GST Road, Vandalur

City: Chennai

Pin: 600048

**Projects Duration:** 3Years 0Months

**Proposed Cost:** Rs. 9007876.00/-

**Status:** Proposal Under Consideration

**TF RECOMMENDATIONS:**

19/12/2022 - 19/12/2022

DECISION TAKEN

Recommended for fund release

**TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY**

DOTE Campus, Chennai- 25

**STUDENT PROJECTS SCHEME 2022-2023**

S.No	Guide Name & Institution	Title of the Project	Students Name	Project Code	Amount Rs.
<b>CHEMICAL ENGINEERING</b>					
564.	Dr. Sridharan D Assistant Professor Dept of Chemical Engg. Anjalai Ammal Mahalingam Engineering College Kovilvenni-614 403	Fabrication of fast charging supercapacitor for e-bike applications	Joshwa J Satheeshwaran S Clement Jasper J Sivanantham R	CHE-010	7500/-
565.	Mr.Selvaprakash P Assistant Professor Dept of Chemical engineering Erode Sengunthar Engineering College, Perundurai Erode - 638 057	Recovery of sodium sulphate and sodium carbonate salts from textile effluent	Santhoshkumar S Johnson R Muhammed Sayis	CHE-031	7500/-
566.	Mr. Raj Kumar A Assistant Professor Dept of Chemical Engineering Hindusthan College of Engineering And Technology Coimbatore - 641 032	Preparation of bio pickering emulsion liquid membrane for selective extraction of ciprofloxacin with the help of Fe <sub>3</sub> O <sub>4</sub>	Gokul Jothi R Mohan Raj M Gokulasezhilyan S	CHE-052	7500/-
567.	Dr.Kavitha.S Professor and Head Dept of Petrochemical Engg. JCT College of Engineering and Technology, Pichanur Coimbatore - 641 105	Development of advanced nanotech steel using modern and effective nanotechnology	Mahesh Kannan.M Kamalakannan.G Mayur Mangesh Ghatkar.M Dhanasekaran.S	CHE-066	7500/-
568.	Dr. Karthik A Associate Professor Dept of Nano Science and Technology K S Rangasamy College of Technology Tiruchengode - 637 215	Orderly arranged bismuth oxide nanosheet/graphitic carbon nitrate (Bi <sub>2</sub> O <sub>3</sub> /g- C <sub>3</sub> N <sub>4</sub> ) composite as electrode material for supercapacitor applications	Naren Vidaarth T M Jagannathan M	CHE-071	7500/-
569.	Mr.Raghulnath D Dept of Mechanical Engineering K.Ramakrishnan College of Technology, Trichy – 621 112	Thermal behaviour analysis in heat pipe with composite insulation	Athavan E Dhinesh R Dony Kingsly A Gokul S	CHE-075	7500/-
570.	Dr. Aruna Janani V Associate Professor and Head,Dept of Chemical Engineering Kalasalingam academy of Research and Education Krishnankoil- 626 126	A novel jacketed tumbling homogeneous powder mixer for hazard prevention in fireworks	Boligarla Vinay Prabhu M	CHE-078	7500/-
571.	Dr. Baskaran.R Associate Professor Dept of Bio Technology Kamaraj College of Engineering & Technology Virudhunagar -625 701	Development of high performance high voltage insulator for power transmission line from blends of EPDM rubber/ethylene vinyl acetate copolymer	P.Raakesh Kumar D.Muhammed Aashik D.Vignesh	CHE-079	7500/-

770.	Ms.Revathi.V Assistant Professor Dept. of ECE AVS College of Technology Salem – 636 106	Wearable sensor enhanced outer wear for coal mine safety	Panneer Selvam. M Santhosh.C Sanjai.M Ponkumar.M	EEE-111	7500/-
771.	Mr.R.Arul Arumugam Assistant Professor Dept. of ECE Annapoorna Engineering College, Salem – 636 308	The development of a device for the mute community to convert gesture to speech	T.Sutharsan K.Tamilarasan	EEE-080	7500/-
772.	Ms.VInishya.P.S Assistant Professor Dept. of ECE Arasu Engineering College Kumbakonam – 612 501	Mining workers rescue system and Impact detection	Mohammed Barish.Mf Sarabeswaran.K Jeeva.R Nesamani.M	EEE-085	7500/-
773.	Dr.Vinothkumar M Associate Professor Dept. of EEE Arifa Institute of Technology Nagapattinam – 611 103	Water quality monitoring and control for shrimp farms using IoT	Kabilan S	EEE-093	7500/-
774.	Dr.E.P.Kannan Hod, Dept. of ECE Arunachala Engg College Kanyakumari- 629 203	Automated robots for pest killing(cockroach killing-in home/small scale food industry)	Reju Kannan Ragavi.K Anusha.	EEE-095	7500/-
775.	Mr.V.Velmurugan Assistant Professor Dept. of EIE Arunai Engineering College Thiruvannamalai- 606 603	Green radio technology for reducing power consumption in wireless network	V.David M.Prakash V.K.Divakaran K.Vasanthakumar	EEE-104	7500/-
776.	Dr A Vijayakumar Professor Dept. of EEE Anjalai Ammal Mahalingam Engineering College Kovilveni - 614 403	IoT based accident analysis & prevention system (aaps) with enhanced car surveillance (ecs) with gps enabled monitoring system using interior dual camera	S.Fayaz Ahamed G.Selvaguru V.K.Ranjith Kumar M.Manoj Kumar	EEE-068	7500/-
777.	Dr.Parnasree Chakraborty Assistant Professor Dept. of ECE B.S.Abdur Rahman Crescent Institute of Science and Technology Chennai - 600 048	Wearable mimo antenna for health monitoring	Rayapati Khader Yousuf Moula Shalk Haarees Ahmed Syed Abdul Hafeez	EEE-154	7500/-
778.	Mr.T.Velmurugan Assistant Professor Dept. of ECE Builders Engineering College, Tirupur - 638 108	An Intelligent communication system for fishermen	Divya.T Mohan.B Sharulatha.R	EEE-190	7500/-
779.	Dr.B.A.Mohammed Hashim Assistant Professor Dept. of ECE C. Abdul Hakeem College of Engineering and Tech. Ranipet - 632 509	Recognition of sign language using jetson for speech & hearing impairment people	E. Nadeem Sheriff V. Ramesh R. Nandhakumar G. Kavi Arasu	EEE-197	7500/-
780.	Ms.Jai Devi K Associate Professor , Dept. of ECE Cape Institute of Tech. Tirunelveli - 627 114	Smart helmet for mine workers using lora technology	Abhirami.R.Menon Abisha.D Abinaya.A Abinaya.J	EEE-199	7500/-

916.	Dr.S.M.Sivagami, Assistant Professor Department of Mech. Engg. Alagappa Chettiar Government College of Engg. and Tech. Karaikudi-630 003	Development of ergonomically designed All-Weather seed sowing machine: A tool for drudgery reduction and improving efficiency among women farmers	J. Ganesh S. Kevin Duke P. Arun Raj R. Maheswaran	EME-0030	7500/-
917.	Mr.K.Aravindh, Assistant Professor Department of Mech. Engg. Amrita College of Engg. and Tech., Nagercoil-629 901	A novel non-toxic anti bacterial and biocompatible AZ91-TiO <sub>2</sub> -ZrO <sub>2</sub> hybrid orthopaedic implant composites for biomedical applications	B. Nageshwari N. Sivamurugan P.A. Siva Subramani S.R. Subramoniam	EME-0033	7500/-
918.	Mr.V.Moorthi, Assistant Professor Department of Automobile Engineering, Annapoorana Engineering College, Salem-636 308	Automatic gear shifting in two wheeler by using sensor	C. Balamurugan G. Magileeswaran M. Mayilsamy V. Ramamoorthy	EME-0057	7500/-
919.	Mr.A.Joseph Arockiam Assistant Professor Department of Automobile Engineering Arasu Engineering College Kumbakonam-612 501	Recycle of sea food waste into electronic device panels by 3D printing	A. Bharathi R. Hemavardhan A. Mohamed Aslam	EME-0061	7500/-
920.	Mr.S.Ramesh Assistant Professor Department of Mech. Engg. Arunai Engineering College Tiruvannamalai-606 603	Design and fabrication of campus cleaning e-vehicle using vacuum cleaning technology	S. Hariharan D. Nandha kumar K. Balamurugan V. Harish	EME-0065	7500/-
921.	Dr.R.Vinoth R Associate Professor Department of Mech. Engg. Excel Engineering College Komarapalayam-637 303	Integrating novel micro-channel in solar collector	Aakash Deep Shah P. Aakash Anil Lamsal Jotin Shah	EME-0224	7500/-
922.	Mr.R.Immanuel Assistant Professor, Department of Mech. Engg., Sri Ramakrishna Institute of Technology Coimbatore-641 010	PCM based sound agitated water purifier	E. Raghu Nath J. Sathya K.R. Sanjay	EME-0716	7500/-
923.	Dr.M.A.Sal Balaji Associate Professor Department of Mech. Engg. B.S.Abdur Rahman Crescent Institute of Science & Technology, Chennai-600 048	Design and fabrication of automatic goods weighing system in a truck	Madhu somana Srinivas sampath N. Chaitanya Kumar C. Pavan Sal	EME-0089	7500/-
924.	Mr.B.Saravanan Assistant Professor-II Department of Automobile Engineering Bannari Amman Institute of Technology Sathyamangalam-638 401	Development of emergency braking mechanism in heavy vehicles	M. Kavinithan A. NanthaKumar S. Neha	EME-0096	7500/-
925.	Dr.L.Prince Jeya La, Associate Professor Department of Mech. Engg. Bharath Institute of Higher Education and Research Selaiyur, Chennai- 600 073	Life cycle behaviour of 3D printed and nature-inspired composite cellular battery compartments for electric vehicles towards damage tolerance and fire mitigation	Febin Kenet Prince Praveen Kumar Rithish Vamshi Azad	EME-0102	7500/-

360.	V. Balachandran Assistant Professor Department of Physics Arignar Anna Government Arts College, Musiri–621 211	Green synthesis of Ag/ZrO <sub>2</sub> nanocomposites for biomedical application and environmental remediation	Sowndharya R	PS-016	7500/-
361.	Dr.D.Sasikumar Assistant Professor Department of Physics Arignar Anna Govt Arts College Namakkal – 637 002	Improving solar light photocatalytic activity of phosphorous doped MnO <sub>2</sub> with activated carbon nanoparticles from bio waste	P.Eswaran T.Gowtham Bharathi C.Nanthini T.Valthiswari	PS-022	7500/-
362.	Dr. A. Shanmugaraju Associate Professor Department of Physics Arul Anandar College Karumathur – 625 514	Impact of coronal mass ejections on artificial satellites	A.Vasanth J. Praveen Kumar	PS-026	7500/-
363.	K. Vikramprasad Assistant Professor Department of Physics AVS College of Arts & Science, Salem – 636 106	Triangle shape absorber based solar water heater performance analysis	S. Thamodharshan B. Vihash P. Rajanish M. Vignesh	PS-037	7500/-
364.	Dr.P. Bharathidasan Assistant Professor Centre for Research and Ayya Nadar Janaki Ammal College Sivakasi – 626 124	Energy storage and dye adsorption characteristics of carbon based graphene composites prepared via microwave method	D.Ranjith M.Muthumanikanda n	PS-043	7500/-
365.	Dr. M. Asha Jhonsi Assistant Professor Department of Chemistry B. S. Abdur Rahman Crescent Institute of Science and Technology Chennai-600 048	Development of aggregation induced emission active fluorescent powders for forensic application	A. Pritika	PS-044	7500/-
366.	Dr. J. Lakshmi Praba Assistant Professor PG and Research Department of Chemistry Bishop Heber College Tiruchirappalli - 620 017	Environmentally sustainable one-pot biginelli reaction with potential therapeutic and pharmacological properties	V.S. Ramaa Praba	PS-047	7500/-
367.	K. Shenbagam K. Umasivakami Assistant Professor PG Department of Chemistry Cauvery College for Women Trichy – 620 018	Bio-synthesis of eco-friendly iron oxide nanoparticles for augmentation of photocatalytic degradation of organic dyes – an alluring option for waste water treatment	T. Thamil Ilakkiya S. Selvalakshmi R. Yugeswari S. Kavika	PS-059	7500/-
368.	Dr. T. Thillagavathi Assistant Professor Department of Physics Gobi Arts & Science College Gobichettipalayam -638 453	Experimental and theoretical insight on electronic and photocatalytic properties of tungsten trioxide nanoparticles for the removal of organic pollutants from water	Prasath, V. S Premnath, S Thamaraiselvan, N Vivek, T	PS-115	7500/-
369.	Dr. S. Shyamsivappan Assistant Professor Department of Chemistry Dr. N.G.P. Arts and Science College Coimbatore – 641 048	dual modal photothermal cancer immunotherapy of poly pyrrole and quinoline based nanoparticles for cancer therapeutic applications: A next generation of combination therapy	R. Keerthana Aarabhi PC	PS-083	7500/-

**TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY**

DOTE Campus, Chennai- 25

**STUDENT PROJECTS SCHEME 2022-2023**

S.No	Guide Name & Institution	Title of the Project	Students Name	Project Code	Amount Rs.
<b>CHEMICAL ENGINEERING</b>					
564.	Dr. Sridharan D Assistant Professor Dept of Chemical Engg. Anjalai Ammal Mahalingam Engineering College Kovilvenni-614 403	Fabrication of fast charging supercapacitor for e-bike applications	Joshwa J Satheeshwaran S Clement Jasper J Sivanantham R	CHE-010	7500/-
565.	Mr.Selvaprakash P Assistant Professor Dept of Chemical engineering Erode Sengunthar Engineering College, Perundurai Erode - 638 057	Recovery of sodium sulphate and sodium carbonate salts from textile effluent	Santhoshkumar S Johnson R Muhammed Sayis	CHE-031	7500/-
566.	Mr. Raj Kumar A Assistant Professor Dept of Chemical Engineering Hindusthan College of Engineering And Technology Coimbatore - 641 032	Preparation of bio pickering emulsion liquid membrane for selective extraction of ciprofloxacin with the help of Fe <sub>3</sub> O <sub>4</sub>	Gokul Jothi R Mohan Raj M Gokulasezhilyan S	CHE-052	7500/-
567.	Dr.Kavitha.S Professor and Head Dept of Petrochemical Engg. JCT College of Engineering and Technology, Pichanur Coimbatore - 641 105	Development of advanced nanotech steel using modern and effective nanotechnology	Mahesh Kannan.M Kamalakannan.G Mayur Mangesh Ghatkar.M Dhanasekaran.S	CHE-066	7500/-
568.	Dr. Karthik A Associate Professor Dept of Nano Science and Technology K S Rangasamy College of Technology Tiruchengode - 637 215	Orderly arranged bismuth oxide nanosheet/graphitic carbon nitrate (Bi <sub>2</sub> O <sub>3</sub> /g- C <sub>3</sub> N <sub>4</sub> ) composite as electrode material for supercapacitor applications	Naren Vidaarth T M Jagannathan M	CHE-071	7500/-
569.	Mr.Raghulnath D Dept of Mechanical Engineering K.Ramakrishnan College of Technology, Trichy – 621 112	Thermal behaviour analysis in heat pipe with composite insulation	Athavan E Dhinesh R Dony Kingsly A Gokul S	CHE-075	7500/-
570.	Dr. Aruna Janani V Associate Professor and Head,Dept of Chemical Engineering Kalasalingam academy of Research and Education Krishnankoil- 626 126	A novel jacketed tumbling homogeneous powder mixer for hazard prevention in fireworks	Boligarla Vinay Prabhu M	CHE-078	7500/-
571.	Dr. Baskaran.R Associate Professor Dept of Bio Technology Kamaraj College of Engineering & Technology Virudhunagar -625 701	Development of high performance high voltage insulator for power transmission line from blends of EPDM rubber/ethylene vinyl acetate copolymer	P.Raakesh Kumar D.Muhammed Aashik D.Vignesh	CHE-079	7500/-

770.	Ms.Revathi.V Assistant Professor Dept. of ECE AVS College of Technology Salem – 636 106	Wearable sensor enhanced outer wear for coal mine safety	Panneer Selvam. M Santhosh.C Sanjai.M Ponkumar.M	EEE-111	7500/-
771.	Mr.R.Arul Arumugam Assistant Professor Dept. of ECE Annapoorna Engineering College, Salem – 636 308	The development of a device for the mute community to convert gesture to speech	T.Sutharsan K.Tamilarasan	EEE-080	7500/-
772.	Ms.VInishya.P.S Assistant Professor Dept. of ECE Arasu Engineering College Kumbakonam – 612 501	Mining workers rescue system and Impact detection	Mohammed Barish.Mf Sarabeswaran.K Jeeva.R Nesamani.M	EEE-085	7500/-
773.	Dr.Vinothkumar M Associate Professor Dept. of EEE Arifa Institute of Technology Nagapattinam – 611 103	Water quality monitoring and control for shrimp farms using IoT	Kabilan S	EEE-093	7500/-
774.	Dr.E.P.Kannan Hod, Dept. of ECE Arunachala Engg College Kanyakumari- 629 203	Automated robots for pest killing(cockroach killing-in home/small scale food industry)	Reju Kannan Ragavi.K Anusha.	EEE-095	7500/-
775.	Mr.V.Velmurugan Assistant Professor Dept. of EIE Arunai Engineering College Thiruvannamalai- 606 603	Green radio technology for reducing power consumption in wireless network	V.David M.Prakash V.K.Divakaran K.Vasanthakumar	EEE-104	7500/-
776.	Dr A Vijayakumar Professor Dept. of EEE Anjalai Ammal Mahalingam Engineering College Kovilveni - 614 403	IoT based accident analysis & prevention system (aaps) with enhanced car surveillance (ecs) with gps enabled monitoring system using interior dual camera	S.Fayaz Ahamed G.Selvaguru V.K.Ranjith Kumar M.Manoj Kumar	EEE-068	7500/-
777.	Dr.Parnasree Chakraborty Assistant Professor Dept. of ECE B.S.Abdur Rahman Crescent Institute of Science and Technology Chennai - 600 048	Wearable mimo antenna for health monitoring	Rayapati Khader Yousuf Moula Shalk Haarees Ahmed Syed Abdul Hafeez	EEE-154	7500/-
778.	Mr.T.Velmurugan Assistant Professor Dept. of ECE Builders Engineering College, Tirupur - 638 108	An Intelligent communication system for fishermen	Divya.T Mohan.B Sharulatha.R	EEE-190	7500/-
779.	Dr.B.A.Mohammed Hashim Assistant Professor Dept. of ECE C. Abdul Hakeem College of Engineering and Tech. Ranipet - 632 509	Recognition of sign language using jetson for speech & hearing impairment people	E. Nadeem Sheriff V. Ramesh R. Nandhakumar G. Kavi Arasu	EEE-197	7500/-
780.	Ms.Jai Devi K Associate Professor , Dept. of ECE Cape Institute of Tech. Tirunelveli - 627 114	Smart helmet for mine workers using lora technology	Abhirami.R.Menon Abisha.D Abinaya.A Abinaya.J	EEE-199	7500/-

916.	Dr.S.M.Sivagami, Assistant Professor Department of Mech. Engg. Alagappa Chettiar Government College of Engg. and Tech. Karaikudi-630 003	Development of ergonomically designed All-Weather seed sowing machine: A tool for drudgery reduction and improving efficiency among women farmers	J. Ganesh S. Kevin Duke P. Arun Raj R. Maheswaran	EME-0030	7500/-
917.	Mr.K.Aravindh, Assistant Professor Department of Mech. Engg. Amrita College of Engg. and Tech., Nagercoil-629 901	A novel non-toxic anti bacterial and biocompatible AZ91-TiO <sub>2</sub> -ZrO <sub>2</sub> hybrid orthopaedic implant composites for biomedical applications	B. Nageshwari N. Sivamurugan P.A. Siva Subramani S.R. Subramoniam	EME-0033	7500/-
918.	Mr.V.Moorthi, Assistant Professor Department of Automobile Engineering, Annapoorana Engineering College, Salem-636 308	Automatic gear shifting in two wheeler by using sensor	C. Balamurugan G. Magileeswaran M. Mayilsamy V. Ramamoorthy	EME-0057	7500/-
919.	Mr.A.Joseph Arockiam Assistant Professor Department of Automobile Engineering Arasu Engineering College Kumbakonam-612 501	Recycle of sea food waste into electronic device panels by 3D printing	A. Bharathi R. Hemavardhan A. Mohamed Aslam	EME-0061	7500/-
920.	Mr.S.Ramesh Assistant Professor Department of Mech. Engg. Arunai Engineering College Tiruvannamalai-606 603	Design and fabrication of campus cleaning e-vehicle using vacuum cleaning technology	S. Hariharan D. Nandha kumar K. Balamurugan V. Harish	EME-0065	7500/-
921.	Dr.R.Vinoth R Associate Professor Department of Mech. Engg. Excel Engineering College Komarapalayam-637 303	Integrating novel micro-channel in solar collector	Aakash Deep Shah P. Aakash Anil Lamsal Jotin Shah	EME-0224	7500/-
922.	Mr.R.Immanuel Assistant Professor, Department of Mech. Engg., Sri Ramakrishna Institute of Technology Coimbatore-641 010	PCM based sound agitated water purifier	E. Raghu Nath J. Sathya K.R. Sanjay	EME-0716	7500/-
923.	Dr.M.A.Sal Balaji Associate Professor Department of Mech. Engg. B.S.Abdür Rahman Crescent Institute of Science & Technology, Chennai-600 048	Design and fabrication of automatic goods weighing system in a truck	Madhu somana Srinivas sampath N. Chaitanya Kumar C. Pavan Sal	EME-0089	7500/-
924.	Mr.B.Saravanan Assistant Professor-II Department of Automobile Engineering Bannari Amman Institute of Technology Sathyamangalam-638 401	Development of emergency braking mechanism in heavy vehicles	M. Kavinithan A. NanthaKumar S. Neha	EME-0096	7500/-
925.	Dr.L.Prince Jeya La, Associate Professor Department of Mech. Engg. Bharath Institute of Higher Education and Research Selaiyur, Chennai- 600 073	Life cycle behaviour of 3D printed and nature-inspired composite cellular battery compartments for electric vehicles towards damage tolerance and fire mitigation	Febin Kenet Prince Praveen Kumar Rithish Vamshi Azad	EME-0102	7500/-

360.	V. Balachandran Assistant Professor Department of Physics Arignar Anna Government Arts College, Musiri–621 211	Green synthesis of Ag/ZrO <sub>2</sub> nanocomposites for biomedical application and environmental remediation	Sowndharya R	PS-016	7500/-
361.	Dr.D.Sasikumar Assistant Professor Department of Physics Arignar Anna Govt Arts College Namakkal – 637 002	Improving solar light photocatalytic activity of phosphorous doped MnO <sub>2</sub> with activated carbon nanoparticles from bio waste	P.Eswaran T.Gowtham Bharathi C.Nanthini T.Valthiswari	PS-022	7500/-
362.	Dr. A. Shanmugaraju Associate Professor Department of Physics Arul Anandar College Karumathur – 625 514	Impact of coronal mass ejections on artificial satellites	A.Vasanth J. Praveen Kumar	PS-026	7500/-
363.	K. Vikramprasad Assistant Professor Department of Physics AVS College of Arts & Science, Salem – 636 106	Triangle shape absorber based solar water heater performance analysis	S. Thamodharshan B. Vihash P. Rajanish M. Vignesh	PS-037	7500/-
364.	Dr.P. Bharathidasan Assistant Professor Centre for Research and Ayya Nadar Janaki Ammal College Sivakasi – 626 124	Energy storage and dye adsorption characteristics of carbon based graphene composites prepared via microwave method	D.Ranjith M.Muthumanikanda n	PS-043	7500/-
365.	Dr. M. Asha Jhonsi Assistant Professor Department of Chemistry B. S. Abdur Rahman Crescent Institute of Science and Technology Chennai-600 048	Development of aggregation induced emission active fluorescent powders for forensic application	A. Pritika	PS-044	7500/-
366.	Dr. J. Lakshmi Praba Assistant Professor PG and Research Department of Chemistry Bishop Heber College Tiruchirappalli - 620 017	Environmentally sustainable one-pot biginelli reaction with potential therapeutic and pharmacological properties	V.S. Ramaa Praba	PS-047	7500/-
367.	K. Shenbagam K. Umasivakami Assistant Professor PG Department of Chemistry Cauvery College for Women Trichy – 620 018	Bio-synthesis of eco-friendly iron oxide nanoparticles for augmentation of photocatalytic degradation of organic dyes – an alluring option for waste water treatment	T. Thamil Ilakkiya S. Selvalakshmi R. Yugeswari S. Kavika	PS-059	7500/-
368.	Dr. T. Thillagavathi Assistant Professor Department of Physics Gobi Arts & Science College Gobichettipalayam -638 453	Experimental and theoretical insight on electronic and photocatalytic properties of tungsten trioxide nanoparticles for the removal of organic pollutants from water	Prasath, V. S Premnath, S Thamaraiselvan, N Vivek, T	PS-115	7500/-
369.	Dr. S. Shyamsivappan Assistant Professor Department of Chemistry Dr. N.G.P. Arts and Science College Coimbatore – 641 048	dual modal photothermal cancer immunotherapy of poly pyrrole and quinoline based nanoparticles for cancer therapeutic applications: A next generation of combination therapy	R. Keerthana Aarabhi PC	PS-083	7500/-



**ICMR**  
INDIAN COUNCIL OF MEDICAL RESEARCH

रा/GRAM भूगी / SCIENTIFIC  
Web-site [www.icmr.nic.in](http://www.icmr.nic.in)  
E-mail [icmrhqds@icmr.nic.in](mailto:icmrhqds@icmr.nic.in)

**भारतीय आयुर्विज्ञान अनुसंधान परिषद**  
**INDIAN COUNCIL OF MEDICAL RESEARCH**

पी. रामलिंगस्वामी भवन, अन्सारी नगर, पोस्ट बॉक्स 4911, नई दिल्ली - 110 029  
V. RAMALINGASWAMI BHAWAN, ANSARI NAGAR, POST BOX 4911, NEW DELHI - 110 029

FILE NO: Discovery/IIRP/SG-7609/2023

Date: 07. 02. 2024.

The Director,  
B.S. Abdur Rahman Crescent Institute of Science and Technology  
Vandalpur, Chennai-600048.

**Subject:- Sanction of budget allotment for the Adhoc Research proposal entitled "Structure-based Design and Development of Selective New Delhi Metallo beta lactamase-1 Inhibitors to combat Antibiotic Resistance".**

Sir/Madam,

The Director General of the ICMR sanctions the above mentioned research scheme initially for the period of one year initially from subject to extension up to the total duration specified in para 4 below:-

1. The Director General of the ICMR also sanctions the budget allotment of Rs 35,94,043/- as detailed in the attached statement for the period from 2023-24. The grant-in-aid will be given subject to the following conditions.
2. The payment of the grant will be made in lump-sum to the Head of the Institute. The first installment of the grant will be paid generally as soon as report regarding appointment of the staff is received by the Council. The Staff appointed on the project should be paid as indicated in the budget statement.
3. The staff on the project will be recruited as per the rules and procedure of the host institute and second part of the undertaking be obtained from the employees of the project. The staff grant will not be released unless the required undertaking [part-II] from Head of the Institute is received in this office.
4. The demand for payment of the subsequent installment of the grant should be placed with the Council in the prescribed proforma. The approved duration of the scheme is Three Year. The annual extension will be given after review of the work done on the scheme during the previous year.
5. Five copies of the annual progress report should be submitted to the ICMR every year after completion of ten months of the project giving complete actual details of the research work done. Failure to submit the report in time may lead to termination of project.
6. Subject to the condition that the grant will be utilized after following the provisions laid down in the GFRs-2017 & TA Rules Please keep the fund in the separate saving Bank Account opened for ICMR funded Research projects so that interest earned thereon is credited into the accounts

The receipt of this letter may please be acknowledged.

Yours faithfully,

Sr. Administrative Officer

1. Copy together with a copy of the budget statement forwarded to information Dr. Md. Khurshid Alam Khan, Associate Professor, B.S. Abdur Rahman Crescent Institute of Science and Technology, Vandalpur, Chennai-600048.

2. Accounts. V. for information.
3. IRIS Cell No. IIRP-7609-2023.

Sr. Administrative Officer



Date: 24.01.2022

**Research Collaboration Agreement**

Department of Aerospace Engineering, BSACIST, Vandalur, Chennai, India is glad to collaborate with School of Aerospace Engineering - Sapienza University of Rome, Italy in the area of Hybrid rocket combustion.

**Collaborator details:**

**SIA Advanced Space Propulsion and Combustion Lab** at the School of Aerospace Engineering of the Sapienza University of Rome, hereinafter referred to as Sapienza, tax code n.80209930587, represented by **Dr. Antonella Ingenito**, Codices Fiscale:NGNNNL77D55H501D, born on 15<sup>th</sup> April 1977, domiciled for the office in Via Salaria 851-881- 00138 Rome, Italy

*And*

**Hybrid Rocket Propulsion laboratory** at the Department of Aerospace Engineering, B.S. Abdur Rahman Crescent Institute of Science and Technology, represented by **Dr. Sri Nithya Mahottamananda**, aadhar number 577717228117, born on 2<sup>nd</sup> June 1987, domiciled for the office in Chennai - 600048, Tamil Nadu, India.

Hereinafter also referred to jointly as Parties for combined research and development activities.

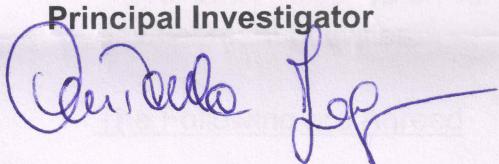
**The Following are Agreed**

1. The project planned to be carried out on the Investigation of the effects of energetic additive particles on the combustion parameters of boron based solid fuels used in hybrid rockets.
2. Through this joint collaborative project, following studies need to be realized.
  - a. Kinetic Study
  - b. Thermal study
  - c. Ballistic tests
  - d. Opposed flow burner experiments.
3. Experiments named “XRD, TEM, TG-DSC, Particle Size Analyzer, HR SEM + EDX + elemental mapping” will be carried out by SIA Propulsion lab.

4. Preparation of fuel grains and ballistic tests were carried out by Dr. Sri Nithya Mahottamananda at the **Hybrid Rocket Propulsion laboratory** at the Department of Aerospace Engineering - B.S. Abdur Rahman Crescent Institute of Science and Technology.
5. During research period Mr. Sasi Kiran Palateerdham, Research Assistant from Sapienza University of Rome will visit to Hybrid Rocket Propulsion laboratory, BSACIST and stay for two months to learn the fuel grain preparation techniques and ballistic test of hybrid rocket motor.
6. The experimental results concluded will be jointly published with equal authorship by both labs.
7. Any Innovative patents resulted from this research work will be jointly shared.

This agreement is valid upon duly signed by both parties and coordinators with a university stamp as it concerns material transfers, sharing original research contribution among countries.

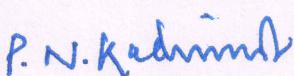
Dr. Antonella Ingenito  
Professor  
**Principal Investigator**



Prof. Dr. PALMERINI Giovanni Battista  
**Dean/School of Aerospace Engineering**



*Sri Nithya*  
Dr. Sri Nithya Mahottamananda  
Assistant professor  
**Principal Investigator**



*P. N. Kadiresh*  
Dr. P.N Kadiresh  
**HOD/Aerospace Engineering**  
Department of Aerospace Engineering  
B.S. Abdur Rahman  
**Crescent**  
Institute of Science & Technology  
From Vandalur, Chennai-600 046  
B.S. Abdur Rahman Crescent  
Institute of Science and Technology





B.S. Abdur Rahman

# Crescent

Institute of Science & Technology

Deemed to be University u/s 3 of the UGC Act, 1956

GST Road, Vandalur, Chennai - 600 048

ACCREDITED WITH "A+" GRADE BY NAAC

**Dr. A. Azad**  
REGISTRAR

Ref.No.56/reg/2022

Date: 19.05.2022

Professor Dr. Zakiah Ahmad  
Dean of Research and Innovation  
College of Engineering  
Tuanku Abdul Halim Mu'adzam Shah Engineering Complex  
UniversitiTeknologi MARA  
40450 Shah Alam Selangor, Malaysia

Kind Attention: Dr. Sakhiah Abdul Kudus

Professor,

**Ref.: Letter of Intent on collaborative research on 'Influence of chemical and mineral admixtures on the performance of galvanized steel rebars in concrete'**

I am writing this letter to express our commitment in supporting the research proposal on "Influence of chemical and mineral admixtures on the performance of galvanized steel rebars in concrete" in collaboration between B. S. Abdur Rahman Crescent Institute of Science and Technology, India and Universiti Teknologi MARA (UiTM), Malaysia.

I believe B. S. Abdur Rahman Crescent Institute of Science and Technology and College of Engineering, UiTM share the same mission to promote and facilitate research and the dissemination of new advance knowledge especially in this collaborative project. Through this strategic research partnership, we believe that it would pave the way for more scholarly output such as co-supervision of postgraduate students, patents, publications and potential of commercialization.

Centre for Corrosion Prevention and Control in Concrete Structures (PC3S), Crescent Innovation Incubation Council (CIIC) (under the ambit of Department of Civil Engineering, School of Infrastructure), B. S. Abdur Rahman Crescent Institute of Science and Technology will execute this project with the grant of Rs. 5,29,500 (RM 30000). Prof. Dr. M.S. Haji Sheik Mohammed, Director, PC3S & Professor, Department of Civil Engineering (Lead & P.I); and Ms. V. Roopa, Assistant Director, PC3S and Assistant Professor, Department of Civil Engineering (Co- PI) will take forward this project at B. S. Abdur Rahman Crescent Institute of Science and Technology. If you have any inquiries please contact by email: hajisheik@crescent.education.

We are truly excited about this project and we are looking forward to collaborate with your team at UiTM.

REGISTRAR

REGISTRAR

B.S. Abdur Rahman

# Crescent

Institute of Science & Technology  
Vandalur, Chennai-600 048



Our ref : 100-KPK(ICAN.32/5)  
Date : 14<sup>th</sup> November 2022

**B.S. Abdur Rahman Crescent  
Institute of Science and Technology**  
Seethakathi Estate  
Gst Road, Vandalur  
Chennai - 600048, Tamil Nadu, India

**Dear : DR. M.S. HAJI SHEIK MOHAMMED  
DEAN, ACADEMIC AFFAIRS**

**MEMORANDUM OF AGREEMENT (MoA)**

The above matter refers.

2. Enclosed herewith a copy of the Memorandum of Agreement (MoA) document between **Universiti Teknologi MARA (UiTM)** and **B.S. Abdur Rahman Crescent Institute of Science and Technology**.

3. Kindly sign and return to us one copy of the document for our next action.

Thank you.

**"WAWASAN KEMAKMURAN BERSAMA 2030"**

**"BERKHIDMAT UNTUK NEGARA"**

Yours sincerely.

  
**MOHD NIZAM OTHMAN**  
Senior Assistant Registrar  
Industry, Community and Alumni Network (ICAN)

c.c 1. Assistant Vice Chancellor (College of Engineering)

**MEMORANDUM OF AGREEMENT**

**BETWEEN**

**UNIVERSITI TEKNOLOGI MARA**

**AND**

**B.S. ABDUR RAHMAN CRESCENT**

**INSTITUTE OF SCIENCE AND TECHNOLOGY**

**THIS MEMORANDUM OF AGREEMENT** is made on this  
(hereinafter referred to as "Agreement");

**BETWEEN**

**UNIVERSITI TEKNOLOGI MARA** (hereinafter referred to as "UiTM"), an Institution of higher learning established under the Universiti Teknologi MARA 1976 [Act 1973] and having its address at the Chancellery, 40450 Shah Alam, Selangor Darul Ehsan, Malaysia and shall include its lawful representatives and permitted assigns of the first part;

AND

**B.S. ABDUR RAHMAN CRESCENT INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI, INDIA** (hereinafter referred to as "BSACIST"), an Institute recognized by the Government of India with the authority to grant bachelor, master and research higher degree whose address is at Seethakathi Estate, GST Road, Vandalur, Chennai, Tamilnadu, India. PIN: 600048.

(UiTM and BSACIST, shall hereinafter be referred to collectively as "Parties" and individually as "Party", where the context so requires)

**WHEREAS:-**

- A. UiTM is Malaysia's premier university which strives to strengthen its educational programs and has entered into various collaborative arrangements with other parties in its effort to enhance its research and industrial networking.
- B. BSACIST is an established institute which strives to strengthen its research and educational abilities, and has entered into various collaborative arrangements with others to enhance its academic links and cooperation.
- C. The Parties are desirous to collaborate in research projects which are to be equally funded by the Parties.
- E. The Parties agree that this Agreement is to be operationalized on behalf of UiTM by School of Civil Engineering, College of Engineering whose address is at Universiti Teknologi MARA, Shah Alam, 40450, Shah Alam, Selangor and on behalf of BSACIST by School of Infrastructure, Department of Civil Engineering, whose address is at B. S. Abdur Rahman Crescent Institute of Science and Technology, Vandalur, Chennai, India. PIN - 600048.

- 15.3 If the Parties cannot resolve any such dispute or disagreement by completing the mediation process, then the Parties agree that the matter shall be referred, under the provision of the Asian International Arbitration Centre (AIAC) Arbitration Rules for the time being in force.
- 15.4 The appointment of an arbitrator shall be mutually agreed upon between the Parties and failing such agreement each Party shall appoint an arbitrator who shall jointly appoint the third arbitrator. The decision of the arbitrators shall be final and binding on both Parties.
- 15.5 The Arbitration shall be held at Asian International Arbitration Centre (AIAC) in Kuala Lumpur, using the facilities and assistance available at the Centre.

## **ARTICLE 16**

## NOTICES

Any communication under this Agreement shall be in writing in the English language and delivered by registered mail to the address or sent to the electronic mail address or facsimile number of UiTM and BSACIST, as the case may be, shown below or to such other address or electronic mail address or facsimile number as either Party may have notified the other Party and shall, unless otherwise provided herein, be deemed to be duly given or made when delivered to the recipient at such address or electronic mail address or facsimile number which is duly acknowledged:

To : Universiti Teknologi MARA

Address : School of Civil Engineering, College of Engineering,

Universiti Teknologi MARA (UiTM), Shah Alam, 40450, Selangor.

Attention : Dr. Sakhiah Abdul Kudus

Tel. : 019-4311168

e-mail : sakhiah@uitm.edu.my

To ... **Department of Civil Engineering, School of Infrastructure,**

**B.S. Abdur Rahman Crescent Institute of Science and Technology**

Address: Seethakathi Estate, GST Road, Vandalur, Chennai, Tamil Nadu, India.

PIN - 600048.

Attention : Dr. M.S. Haji Sheik Mohammed

Tel. : +91 9551617817

e-mail : hajisheik@crescent.education

**IN WITNESS WHEREOF**, the parties hereto execute this Agreement by its duly authorized officer, on the date and year first written above.

Signed by  
for and on behalf  
**UNIVERSITI TEKNOLOGI MARA**

.....  
**PROFESSOR DATUK Ts. DR HAJAH ROZIAH MOHD JANOR**  
Vice-Chancellor



Signed by  
for and on behalf  
**B.S. ABDUR RAHMAN CRESCENT  
INSTITUTE OF SCIENCE AND  
TECHNOLOGY**

.....  
**PROF. N. RAJA HUSSAIN**  
**REGISTRAR**  
Registrar  
**B.S. Abdur Rahman**  
**Crescent**  
Institute of Science & Technology  
Vandalur, Chennai-600 048



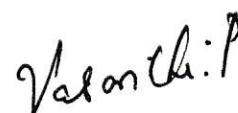
Witnessed by:

.....  
**PROFESSOR Sr. Ir. Dr. Hj. SUHAIMI  
BIN ABDUL TALIB**  
Assistant Vice-Chancellor  
College of Engineering



Witnessed by:

.....  
**PROFESSOR DR. VASANTHI  
PADMANABHAN**  
Dean  
School of Infrastructure



**SCHEDULE 1**  
**RESEARCH COLLABORATION**

**A. UiTM**

<b>RESEARCH PROJECT TITLE</b>	INFLUENCE OF CHEMICAL AND MINERAL ADMIXTURES ON THE PERFORMANCE OF GALVANIZED STEEL REBARS
<b>PRINCIPAL RESEARCHER / PROJECT LEADER</b>	DR. SAKHIAH ABDUL KUDUS
<b>RESEARCHERS / PROJECT MEMBERS</b>	1. PROF. DR. ZAKIAH AHMAD 2. TS. DR. NUR KAMALIAH MUSTAFFA 3. TS. DR. ADIZA JAMADIN

**B. BSACIST**

<b>RESEARCH PROJECT TITLE</b>	INFLUENCE OF CHEMICAL AND MINERAL ADMIXTURES ON THE PERFORMANCE OF GALVANIZED STEEL REBARS
<b>PRINCIPAL RESEARCHER / PROJECT LEADER</b>	DR. M.S. HAJI SHEIK MOHAMMED, PROFESSOR
<b>RESEARCHERS / PROJECT MEMBER(S)</b>	Ms. V. ROOPA, ASSISTANT PROFESSOR

---

## SCHOOL OF INFRASTRUCTURE

### Department of Civil Engineering

Date: 18.05.2022

**Submitted to: Registrar, BSACIST**

**Through : Dean, School of Infrastructure**

Sub. : Research Collaboration with UITM Mara – Presentation of project proposal – Sending Letter of Intent – reg.

Ref. : Approval from Registrar vide letter dated 05.05.2022

In connection with above subject and reference, to execute collaborative research project under "Strategic Research Partnership Grant (SRP)" of Universiti Teknologi Mara (UiTM), two project proposals were presented to Prof. Dr. Zakiah Ahmad, Dean of Research and Innovation, College of Engineering, UiTM & her team on 17.04.2021 through online meeting between 2 – 3 p.m. The project ideas presented are (i) Influence of mineral and chemical admixtures on performance of galvanized rebars in concrete and (ii) Sacrificial Anode Cathodic Protection for repair works in Reinforced Concrete Members.

After the presentation and further deliberations, it was unanimously decided to execute the research project (i) Influence of mineral and chemical admixtures on performance of galvanized rebars in concrete, with a matching grant from both the sides to the tune of Malaysian Ringgit MR 30000 (Equivalent Indian Amount Rs. 5, 29, 500 (as on 18.05.22)). This amount will be utilized for purchase of equipments, fabrication of research components, purchase of consumable materials, manpower, appointment of JRF, travelling expenses (related to research progress and monitoring) from either side and other relevant collaborative research expenses. In the meeting it was also decided that Dr. M.S. Haji Sheik Mohammed will lead the team of BSACIST (P.I.) and Ms. Roopa, Asst. Professor, Dept. of Civil Engg. shall act as co-ordinating member (Co-P.I.). Moreover, one Ph.D. scholar and one M.Tech. student will be attached to this project on need basis.

We are interested in executing this project under "Centre for Prevention and Control of Corrosion in Concrete Structures (PC3S)", Crescent Innovation Incubation Council for the long term good of the Institute. Since emulating the PC3S in to the Centre of Excellence level in the near future is lay in executing collaborative projects in cutting edge technology with National and International Academic / Research Institutions of Eminence. However for Accreditation purposes, this project shall be shown under the ambit of Department of Civil Engineering, since this centre is run by faculty members of Civil Engineering.

I request the Registrar to approve the proposal and sanction an amount of Rs. 5,29,500/- (Five Lakh Twenty Nine Thousand Five Hundred only) as matching grant to start this collaborative research project. Upon approval, the Letter of Intent will be sent to the counterpart at UiTM for further process.



19/05/2022

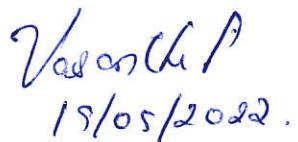
Dr. M.S. Haji Sheik Mohammed

Dr. M.S. HAJI SHEIK MOHAMMED  
B.E., M.S., Ph.D., MICI, MASCE, MRILEM, MNACE

Dean (Academic Affairs)  
B.S. Abdur Rahman Crescent Institute of Science & Technology  
Vandalur, Chennai - 600 048, India

Recommended and forwarded to Registrar

The proposal may be approved and an amount of Rs 5,29,500/- (Five lakh Twenty nine thousand and five hundred) may be sanctioned.



18/05/2022.



M.S.

**SANCTION FORM**

**STEP - 1**

FP/ RB/ 23-24

Your Ref. No.:

Date: 30.08.2023

**SANCTION FOR PURCHASE**

1. Name of the Division /Dept./School : Department of Civil Engg. / School of Infrastructure
2. Head of Account (as per budget) collaborative project betn. Crescent and UiTM
3. Nature of Purchase Galvanized Steel Rebars. Influence of chemical and mineral admixtures on the performance of Recurring / Non-recurring / .....
3. a. Name of item : characterization of Steel rebar & concrete samples, purchase of cement, chemicals etc, labour charges
3. b. Detailed Specification/List (Attach separate sheet as annexure if required)

. characterization of uncoated & galvanized  
 Steel rebars exposed to cementitious system - 15 Samples (Phase - 1)  
 SEM, XRD, C/S profile  
 . SEM of Concrete Specimens - 6 Samples (Phase - 2)  
 . Purchase of cement, Consumable chemicals,  
 Helical rings for bond str. test etc.

- 3.c. Approximate cost involved : Rs. 40,000 = (as Advance)  
 This collab. project is attached to PC35 lab of constr. materials & Tech. lab.
4. Laboratory for which purchase is made : to PC35 lab of constr. materials & Tech. lab.
5. Details about budget availability (under the head of account) (Hand written) :

Allotted amount (Rs.)	Amount spent (Rs.)	Amount committed (Rs.)	Amount involved in this purchase (Rs.)	Balance amount available (Rs.)
5,29,500	-	-	40,000	4,89,500

COLLABORATIVE PROJECT betn. BSCIST & UiTM, Malaysia Under mutual funding scheme.

*J. Loni* *30/08/23*

Principal Investigator  
 (In case of funded project)  
 Dr. M. S. Xaji Saik M. Marmar

*J. Loni* *30/08/23*  
 Head of the Department  
**Crescent**  
 Institute of Science & Technology  
 Vandavasi, Chennai-600048.

Dean/Director/CoE

Purchase Approved / Not Approved

Registrar Sanction No.:

Registrar

Vice Chancellor

\*This sanction details are to be entered in the Sanction Register.

\*\* After sanction approval, use PRA FORM.

## Invitation: (No Subject) @ Thu Aug 24, 2023 2:30pm - 3:30pm (IST) ([roopa@crescent.education](mailto:roopa@crescent.education))

1 message

**hajisheik@crescent.education** <[hajisheik@crescent.education](mailto:hajisheik@crescent.education)>

Sun, Aug 13, 2023 at 2:22 PM

Reply-To: [hajisheik@crescent.education](mailto:hajisheik@crescent.education)

To: [roopa@crescent.education](mailto:roopa@crescent.education), [sakhiah@uitm.edu.my](mailto:sakhiah@uitm.edu.my), [zakiah@uitm.edu.my](mailto:zakiah@uitm.edu.my), [dean.infrastructure@crescent.education](mailto:dean.infrastructure@crescent.education)

[Join with Google Meet](#)

### Meeting link

[meet.google.com/kjh-viqv-uzm](https://meet.google.com/kjh-viqv-uzm)

### Join by phone

(US) +1 301-882-3682

PIN: 934888839

Project title: Influence of chemical and mineral admixtures on performance of galvanized steel rebars - Progress review meeting

### When

Thursday Aug 24, 2023 · 2:30pm – 3:30pm (India Standard Time - Kolkata)

### Guests

[hajisheik@crescent.education](mailto:hajisheik@crescent.education) - organizer

[sakhiah@uitm.edu.my](mailto:sakhiah@uitm.edu.my)

[roopa@crescent.education](mailto:roopa@crescent.education)

[zakiah@uitm.edu.my](mailto:zakiah@uitm.edu.my)

[dean.infrastructure@crescent.education](mailto:dean.infrastructure@crescent.education)

[View all guest info](#)

### Reply for [roopa@crescent.education](mailto:roopa@crescent.education)

Yes

No

Maybe

More options

Invitation from Google Calendar

You are receiving this email because you are subscribed to calendar notifications. To stop receiving these emails, go to Calendar settings, select this calendar, and change "Other notifications".

Forwarding this invitation could allow any recipient to send a response to the organizer, be added to the guest list, invite others regardless of their own invitation status, or modify your RSVP. [Learn more](#)

---

 **invite.ics**  
3K