

Sr. No.	Project Title	Principal Investigator/Supervisor/ Coordinator	Funding Agency	Sanction details, Budget Sanctioned & Term of Project
1.	Design of Novel polydentate chelators for sensitization of trivalent europium and terbium luminescence Sanctioned on: 30.04.2012 Financial Year: 2012-13	Prof. B.K. Kanungo, Deptt. of Chemistry	Science & Engg. Research Board	Office order (No. SR/S1/IC-17/2011 dt. 30.04.2012) for 3 years (2012-2015), Project of Rs. 43, 59, 000/- Completed
2.	Application of TDPAC to study hyperfine interactions in Biomolecules and Nanocrystals Grant under Research Promotion Scheme (RPS) during financial year 2011-12	Dr. Sardool Singh Ghumman, Deptt. Of Physics	AICTE	8023/RID/RPS-14 (Govt., II Policy/ 2011-12 dated: 03/02/2012, Budget of Rs. 15, 00, 000/- . Project of 2 years. Closed on 05/07/2018
3.	Development of processes for production, downstream processing and applications of oligosaccharide producer enzymes	Project Investigators: Dr. P.S. Panesar, Professor (Food Engg. & Technology Deptt.), SLIET, Longowal and Prof. Ram Sarup Singh from Punjabi University, Patiala Co-PI: Dr. Balwinder S Sooch, Assistant Prof., Punjabi University Patiala	GOI, Ministry of Science & Technology, Department of Biotechnology (DBT), New Delhi (Network project)	Total Rs. 70, 67,000/- (Rs. 48,62,000/- for Punjabi University & Rs. 22,05,000/- for SLIET) (for Punjabi University & SLIET). Project of 36 months. Sanction Letter No. BT/PR4742/PID/6/635/2012 dated: 10/01/2013 (Completed in June- 2016)
4.	Development of Reliable, Efficient and Cost-Effective Controller for permanent magnet brushless DC Motor Drive with Reduced Sensors and improved Power Quality at Utility mains Sanctioned on: 18.03.2013 Financial Year: 2012-13	Dr. Sanjeev Singh, EIE Deptt.	(RPS) AICTE, New Delhi	Rs. 15, 00, 000/- for three years (20/AICTE/RIFD/RPS (Policy-IV) 32/2012-13 dt. 18.03.2013 (Completed in August- 2016)
5.	Infrastructure Development & Augmentation of Food Biotechnology Laboratory	Dr. P. S. Panesar, FET Deptt.	AICTE, New Delhi under MODROB	Rs. 20, 00, 000/- for one year (File No. 9-165/RIFD/ MODROB/Policy-1/2013-14 dt. 29.07.2013. Project of one-year duration. (Completed 2014-15)

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6.	Development of immobilized Cell Technology for the production of L (+) lactic acid using waste potato starch	Dr. P.S. Panesar, FET Deptt.	CSIR, New Delhi	Sanction letter No. 38 (1347)/12/EMR-II dated: 16/10/2012, Rs. 5,50,417/- Completed in June- 2016.
7.	Synthesis of value-added organic chemicals by electrolytic oxidation of soda agro residue black liquor	Dr. H.R. Ghatak, Ch.E. Deptt.	CSIR	Sanction letter No. 02 (0135)/13/EMR-II, dated: 12/04/2013 and subsequent letters, Grant received Rs. 6, 74,801/- . Completed in May- 2018.
8.	Enhancement of Flexibility of Optical Communication Networks	Dr. Surinder Singh, ECE Deptt.	AICTE, New Delhi	Sanction letter No. 20/AICTE/RIFD/RPS (Policy-1)/60/2013-14, Dated: 24/07/2013. Project of 3 years. Project of Rs. 15,00,000/- Completed in December- 2017.
9.	Future Trends of Broadband Wireless Communications and Networking (Summer Winter School Scheme)	Dr. Surinder Singh, ECE Deptt.	AICTE, New Delhi	Sanctioned vide F. No. 24-14/RIFD/SWSS/POL-1/2013-14 for Rs. 7,00,000/- . Project of 12 days. Completed in 2013.
10.	Modernization of Polymer Testing and Characterization Laboratory Duration/period 2013-14	Dr. Vinay Kumar, ChE. Deptt.	AICTE (MODROB)	Sanction F. No. 9-164/RIFD/MODROB/POLICY-1/2013-14, project of one-year duration. Project of Rs. 12, 20, 000/- . Completed in November- 2015.
11.	Bio-Technological Approaches for the Value addition of Kinnow Mandarin waste for bio-pigment production	H.O.D. (FET) / Dr. Reeba Panesar	CSIR	S. Order No. B-11583 dated 4/07/2011 Completed during the year 2014-15

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12.	Creation of Infrastructure facilities for M. Tech. (Food Technology) course scheme of Ministry of Food Processing Industries, New Delhi	Prof. H K Sharma, HOD, FET Deptt.	Ministry of Food Processing Industries, New Delhi	No. F. No. 5-03/2011 dt.30/03/2016 from Ministry of Food Processing Industries, New Delhi Rs. 68, 80, 000/- . UC may be furnished latest by 29/09/2016 Completed
13.	Award of ASEAN-Indian Research & Training (AIRTf) under ASEAN- India Science and Technology Development Fund of GOI to Mr. Dai Van Pham, Institute of Materials Science Vietnam for a period of 6 months w.e.f. 01/06/2019 to 30/11/2019. Research Topic- Design of Photonic Crystal Fiber Biosensor for Biochemical and Chemical Applications, Engineering Sciences	Dr. Surinder Singh, Professor ECE and Dr. Vinod Kumar Verma, Assistant Professor, CSE of SLIET, Longowal	Federation of Indian Chambers of Commerce and Industry (FICCI), New Delhi	File No. RTE/2018/000022 dated: 10/05/2019. Rs. 4,00,000/- Award of ASEAN-Indian Research & Training (AIRTf) under ASEAN- India Science and Technology Development Fund of GOI to Mr. Dai Van Pham, Institute of Materials Science Vietnam for a period of 6 months w.e.f. 01/06/2019 to 30/11/2019. Completed
14.	Setting up Secondary Agricultural Entrepreneurial Network in Punjab	PI: Prof. P. S. Panesar, FET Department	Punjab State Council for Science and Technology, Chandigarh with the support of Biotechnology Industry Research Assistance Council (BIRAC), DBT- GOI	Ref. No. PSCST/1353 dated: 15/07/2019 for a period of six months. Budget Rs. 1, 80, 000/- Completed in June- 2020.
15.	Design and Development of Novel Optoelectronic Devices for High-Speed Reconfigurable Optical Access Networks	From India- Dr. Surinder Singh, Prof. ECE Department SLIET, Longowal & From ASEAN side Dr. Quang Minh, Head of Laboratory of Materials and Engineering Science, Hanoi, Vietnam Dr. Amin Malekmohammadi, Department of Electrical & Electronic Engineering, University of Nottingham, Malaysia.	DST, SERB Collaborative research project	Sanction No. IMRC/AISTDF/R&D/P-5/2017 dated: 01/02/2018, period for 03 years w.e.f. 01/02/2018. Project of Rs. 18, 07, 080/-. Budget revised to Rs. 20, 70, 628/- , vide No. IMRC/AISTDF/R&D/P-05/2017 dated: 17/01/2020 from AISTDF Secretariat, 5 & 5A Lower Ground Floor, Vasant Kunj, New Delhi. Completed in January- 2021.

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16.	MODROB- Rural Scheme, Year- 2019-2020	Coordinator- HOD- ECE	AICTE	F.No.84-41/RIFD/MODROB/Rural/Policy-1/2019-20, dated: 16/05/2019. Budget Sanctioned Rs. 11, 10, 000/- , project of 02 years Completed in March- 2022.
17.	MODROB- Rural Scheme, Year- 2019-2020	Coordinator- HOD- EIE	AICTE	F.No.84-52/RIFD/MODROB/Rural/Policy-1/2019-20, dated: 16/05/2019. Budget Sanctioned Rs. 11, 82, 500/- , project of 02 years Completed in August- 2022.
18.	Project under Research Promotion Scheme for Research Centres under National Doctoral Fellowship (RPS- NDF) during Financial year 2018-19 Title- “Development of Fault Identification System for Water Turbine Making Use of Vibration Signal and Artificial Intelligence”	PI: Prof. Rajesh Kumar, ME Department	AICTE, New Delhi	Ref. No. File No. 8-29/RIFD/RPS-NDF/Policy- 1/2018-19 dated: 13/03/2019 of Rs. 17,00,000/- for 03 years Completed in December- 2022.
19.	Grant under Share & Mentor Institutions (Margdarshan) Scheme	Chief Coordinator: Prof. Ajat Shatru Arora, EIE Department Faculty Advisor (s): Prof. R.K. Saxena, ME Department Prof. Surita Maini, EIE Department	AICTE	Sanction- F. No. 58-14/RIFD/Margdarshan/2019- 20 dated: 06/09/2019 for Rs. 25,00,000/- for 3 years.

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20.	Design of High-Speed Multichannel Optical Wireless Communication System Based on Hybrid WDM Free Space Optics Transmission Link for MIMO Applications	Under Teachers Associateship for Research Excellence (TARE) to Dr. Amit Gupta, Punjab Technical University, Jalandhar, Punjab- 144011 under the Mentorship of Dr. Surinder Singh, at Sant Longowal Institute of Engineering and Technology (SLIET), Longowal, Distt. Sangrur	Science & Engineering Research Board (SERB), New Delhi	File No. TAR/2021/000274, dated: 10/02/2022, Budgetsanctioned: Total Rs. 18, 30, 000/- . Duration of Project is 36 months and start date of project is 08/12/2021. Details of allocation of budget is as under: 1. Rs. 8, 25, 000/- to Punjab Technical University, Jalandhar. 2. Rs. 10, 05, 000/- to SLIET, Longowal Completed
21.	Proposal under FIST Program. Financial Assistance to the Department of Electronics and Communication Engineering, SLIET Longowal to augment the research facilities in the Department	HOD- ECE Department	GOI, DST, R&D Infrastructure Division	Order No. FST/ET-1/2018/157 (C) of GOI, DST dated: 14/03/2019 of Rs. 61,00,000/- project of 05 years. Completed
22.	Design and Development of Terahertz Self-Multiplex Antennas Using Substrate Integrated Waveguide for 6G Wireless Communication System	PI: Dr. Kundan Kumar, A.P., ECE Department	Science & Engineering Research Board (SERB), New Delhi	F. No. SRG/2022/000664 dated: 06/10/2022, Budget sanctioned Rs. 16, 31, 540/- . Duration of project is 24 months. Due to the selection of Dr. Kundan Kumar, A.P., project was transferred to NIT Jalandhar.
23.	High Accuracy Determination of Rheological Properties of Drilling Fluids using Marsh Funnel	PI: Dr. Kamlesh Kumari, Prof. Ch.E. Department. Budget of Rs. 10, 000/- has been granted for year 2022-23 for final year students of B.E./B.Tech. in Chemical Engineering.	Indian Institute of Chemical Engineers (IChE), Kolkata	Ref. No. AG/R&D/2022/351-357, published on IChE website dated: 16/09/2022. Budget of Rs. 10, 000/- has been granted for year 2022-23 for final year students of B.E./B.Tech. in Chemical Engineering. Duration of project is 12 months. Completed in March- 2023.

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24.	Biorefining of Kinnow Mandarin Waste for the Extraction of Bioactive Compounds for the Development of Novel Functional Foods using Green Technologies	PI: Prof. P. S. Panesar, FET Department and Co-PI: Prof. Harish Chopra, Chemistry Department	CSIR	Sanction- No. 38 (1491)/19/EMR-II dated: 31/07/2019 project budget Rs. 28, 27,000/- . Project of 03 years Completed in April- 2023.
25.	Valorization of Tropical Fruit By-Products for the Extraction of High Value Compounds	From India Lead PI: Prof. P.S. Panesar, FET Department, SLIET, Longowal ASEAN MS-1, Lead PI: Dr. Anil Kumar Anal, Asian Institute of Technology, P.O. Box 4, 58 Moo 9, Km42, Paholyothin Highway, Klong Luang, Pathum Thani 12120 Thailand ASEAN MS- 2, Lead PI: Dr. Son Chu Ky, School of Biotechnology and Food Technology, Hanoi University of Science and Technology, 1 Dai Co Viet, Hai Ba Trung, Hanoi 100000, Vietnam	ASEAN- India Collaborative R&D Scheme under ASEAN- India S&T Development Fund (AISTDF), SERB, DST, New Delhi	File No. IMRC/AISTDF/CRD/2019/000141 dated: 29/06/2019. Budget Sanctioned Rs. 20, 75, 696/- , project of 02 years from date of issue of order. Completed in April- 2023.
26.	Indo-Russian Joint project entitled “Optical Metrology of Ultra-Short Pulses for Design of Flexible MIMO Based Next Generation Optical Communication Networks”.	Coordinator Prof. Surinder Singh from SLIET, Longowal with Russian partner Dr. Elena Anashkina, Institute of Applied Physics of Russian Academy of Sciences (IAP RAS), Russia	GOI, Ministry of Science and Technology, DST (International Bilateral Cooperation Division)	No. INT/RUS/RFBR/P-312 dated: 11/03/2019 of Rs. 21, 48, 672/- for 02 years duration from issue of order. Completed in April- 2023.

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27.	Process Development and Validation for Evaluating Adulteration in Honey	Prof. Vikas Nanda, FET Department, SLIET, Longowal	Department of Atomic Energy (DAE)- Board of Research in Nuclear Sciences (BRNS)	Order No. 55/14/16/2020-BRNS/ 35046 dated: 15/09/2020. Budget Sanctioned Rs. 32, 65, 388/- , project of 3 years beginning from financial year 2020-2021. Completed in May- 2023.
28.	Project under Research Promotion Scheme for Research Centres under National Doctoral Fellowship (RPS- NDF) during Financial year 2018-19 Title- “Performance Analysis and Optimization for Capturing Co2 Using Amine Solvents”	PI: Prof. Sandeep Mohan Ahuja, Ch.E. Deptt. Co-PI: Prof. Avinash Thakur, ChE.Deptt.	AICTE, New Delhi	Ref. No. File No. 8-39/RIFD/RPS-NDF/Policy-1/2018-19 dated: 13/03/2019 of Rs. 16,00,000/- for 03 years Completed in June- 2023.
29.	Grant-in-Aid under Modernization and Removal of Obsolescence Scheme (MODROB) for year 2017-18 payable during the financial year 2018-19. <u>MODROB on Modernization and up-gradation of polymer testing and characterization lab</u> in SLIET, Longowal.	Dr. Amit Rai, AP, Ch.E. Deptt. MODROB on Modernization and up-gradation of polymer testing and characterization lab in SLIET, Longowal	AICTE, New Delhi	Sanction Letter F. No. 9-33/RIFD/MODROB/Policy/ 2017-18, Dated: 04/03/2019 of Rs. 14, 00,000/- for 02 years from date of release of grant. Grant not released by AICTE.
30.	Project under Research Promotion Scheme for Research Centres under National Doctoral Fellowship (RPS- NDF) during Financial year 2018-19 Title- “Design and Development of Photonic Plasmonic Biosensor for Detection of Heavy Metals in ground Water of Punjab”	PI: Prof. Surinder Singh,ECE Department	AICTE, New Delhi	Ref. No. File No. 8-2/RIFD/RPS-NDF/Policy-1/2018-19 dated: 13/03/2019 of Rs. 25,00,000/- for 03 years Completed in August- 2023.

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