

### Details of Completed Projects till 04/10/2023

S. No.	Name of Project	Principal Investigator & Co-PI	Funding Agency	From	To	Amount, Rs	Department
1	Environment Audit of M/s (Towel Division) Vill. Dhaula, Tehsil & Distt Barnala	Dr. JK Ratan, Dr. S.K Sinha , Dr. Nitin Naresh Pandhare	Trident Group	2020	2021	725000	CH
2	Drying of polymer-solvent coatings:Experimental and simulation study	Dr. Raj Kumar Arya	SERB-DST	2017	2021	4120910	CH
3	Studies on wet on wet coating for railway coaches to reduce cycle time of processes	Dr. JK Ratan, Dr. Sangeeta Garg	G.S Industries, Focal Point Extension, Jalandhar	2019	2022	1050000	CH
4	Quasi Static and dynamic strength of ultra high performance of concrete	Prof. MA Iqbal (IITR) , Prof. Nikita F. Morozov (St. Petersburg University Russia), Dr. K. Senthil-NITJ	DST-Russian Foundation for Basic Research	2020	2023-03-31	2660000	CH
5	Moderate electric field and pressure assisted extraction (MEFPAGE) of colorants from food waste	Dr. Hilal Makroo, Dr. Abida Jabeen, Dr. Shashikant Yadav, Dr. Bethania Brochier	National Project Implementation unit (NPIU) India	2019	2022	1409000	CH
6	FIST-DST project for dept of Chemical Engineering	Dr. S Bajpai, Dr. Ajay Bansal,Dr. M K Jha	FIST-DST			1440000	CH
7	Development and Evaluation of Self-cleaning Cement	Dr. Jatinder Kumar Ratan	JK Cement Ltd	2017	2020	2000000	CH
8	Development of Integrated Membrane Process for the removal of hazardous chromium from synthetic tannery effluent	Dr. Shailendra Bajpai	Emkay Techno Chem, Gaziabad	2018	2020	100000	CH
9	Process Optimization of Upgraded Bio-chemical Treatment for Excess Sludge Minimization from Highly Polluted Industrial Wastewater.	Dr. M.K. Jha,Dr. P.P.S Cheema	Twinning Programme under World bank assisted TEQIP-III	2019	2020	1185000	CH

10	Safeguarding Civil Underground Tunnels against terrorist Blast and Explosion Shocks	Dr. K. Senthil, Dr. Loizos Pelecanos	The Royal Society, UK	2018	2021	1160000	CE
11	Waste utilization in Self-Compacting Concrete: Optimization and Assessment of Environmental Benefits	Dr Navdeep Singh ,Dr Amit Kumar (MNIT)	Council of Scientific & Industrial Research- CSIR	2019	2021	1274000	CE
12	Designing of Fabric Wet Abrasion Tester	Dr A Mukhopadhyay,Dr A K Choudhary	CSIR, Delhi	2017	31.08.2021	2938000	TT
13	Design of instrument for positive thread feeding in lockstitch sewing machine	Dr Vinay Midha,Dr A Mukhopadhyay	DST	2015	2018-May	2211000	TT
14	FIST Mechanical Engg	Dr Pramod Kumar	DST	2012	2017	100000	ME
15	Experimental investigation on tower type hybrid vapour compression refrigeration (VCR) and humidification-dehumidification (HDH) desalination plant	Dr T Srinivas, Dr Rajeev Kukreja	SERB	2019	2021	1520000	ME
16	Studies on Condensation Characteristics of Refrigerants in Macro and Micro Channels	Dr R Kukreja	SERB	2016	2019	3690000	ME
17	Comparative Performance Evaluation Emission and combustion characteristics	Dr S S Sandhu	SERB	2013	2016	1450000	ME
18	Modelling and simulation of antenna control servo system	Prof. Joseph Anand Vaz, Dr. K.S Nagla & Dr. Nitesh Kashyap	ISRO	2020	2022	750000	ME,ICE,ECE
19	Efficient harmonic generation during laser plasma interaction	Dr Niti Kant,Dr Arvinder Singh	DST-SERB	2019	01 Jan,2022	1830000	PH

20	Measurement of Radon, Thoron and progeny distribution in different type of houses in Bathinda, Mansa, Muktsar and Faridkot district of Punjab.	Dr Rohit Mehra	BRNS, BARC, Department of Atomic Energy, Govt. of India	2011	08th August 2016	3395148	PH
21	Measurement of Radon, Thoron and their Progeny Distribution in the Different Type of Houses and Natural radioactivity in soil in Hanumangarh, Churu and Sri Ganganagar Districts of Rajasthan	Sandeeo Kansal, MRS PTU Bathinda, Dr Rohit Mehra, NIT Jalandhar	BRNS, BARC, Department of Atomic Energy, Govt. of India	2016	31st May, 2021	3624750	PH
22	Hyperon Semi-leptonic Decays in the Chiral Constituent Quark Model	Dr Harleen Dahiya	DST-SERB	2009	2013	1069400	PH
23	Electromagnetic Structure of Hadrons at low-Q <sup>2</sup>	Dr Harleen Dahiya	DAE-BRNS	2010	2014	1202050	PH
24	Generalized and Transverse Momentum Dependent Parton Distributions	Dr Harleen Dahiya	DST-SERB	2014	2017	1332000	PH
25	Semi-leptonic, radiative and non-leptonic rare B decays in the light front quark model	Dr Harleen Dahiya	Scientific Engineering and Research Board	2018	23rd July, 2021	1885163	PH
26	Study Of Generalized Transverse Momentum-Dependent Distributions And Wigner Distributions Of Parton	Dr Harleen Dahiya	DST-SERB	2020	2023	666000	PH
27	Strangeness and Charmness In Heavy Ion Collision Experiments	Dr Arvind Kumar	Scientific Engineering and Research Board	2014	31 sept 2017	1128000	PH
28	Electrical and optical properties of Zinc and Strontium Stannate thin films	Dr. Abhinav Pratap Singh, NIT Jalandhar	UGC-DAE Consortium for Scientific Research	2018	March, 2021	135000	PH

29	Study of evolution of ZnSnO <sub>3</sub> phase in pure and dropped Zinc stannate thin films with swift heavy ion irradiation	Dr. Abhinav Pratap Singh, NIT Jalandhar	Inter University Accelerator Centre, New Delhi	2018	2023	675000	PH
30	Preparation and Investigations of Nanomaterials- polymer dispersed liquid crystal composites	Dr Praveen Malik	Council of Scientific and Industrial Research, New Delhi	2019	7th Feb 2022	1781103	PH
31	Preparation and electro-optic studies of polymer stabilised Blue Phase Liquid Crystals for display applications	Dr Praveen Malik	Scientific Engineering and Research Board, DST	2017	9th Nov. 2020	4335595	PH
32	Electro-optic and dielectric studies in nanomaterial's dispersed ferroelectric liquid crystals	Dr Praveen Malik	Scientific Engineering and Research Board, DST	2012	2015	2700000	PH
33	Fluctuations and Correlations: A hunt to QCD critical end point	Dr Arvind Kumar	SERB, DST	23rd Dec 2019	22nd June 2023	504479	PH
34	Some Universal Features of Nuclear Structure in Superdeformed Nuclei	Dr H M Mittal	DST	2014	2017	1367880	PH
35	Many-body correlation effects in one-dimensional electronic materials	Dr. Vinod Ashokan	Scientific Engineering and Research Board	2020	Aug-23	2963710	PH
36	Visvesvaraya PhD fellowship for Electronics and IT Phase-I	Dr Ashish Raman	MeitY	2016	2021	2500000	ECE
37	SMDP-C2SD	Prof R K Sarin, Dr Ashish Raman	MeitY	2015	2021	11000000	ECE
38	Design and Development of anti eve teasing device for women safety	Dr. Neetu Sood & Dr. Indu Saini	MeitY	Sept.2018	Sept. 2020	1500000	ECE

39	Study of higher order iterative for solving nonlinear equations	Dr. Sukhjot Singh	DST (SERB)	2019	2022	1910000	MA
40	Study of some inequalities involving means, moments and variance with applications	Dr. Ravinder Kumar	SERB, DST	Dec. 2019	Dec. 2022	2045077	MA
41	Third Party quality control work at IIIT Una	Prof. Dilbag Singh, Dr. Vivek Sharma	CPWD	2020	2022	262800	EE
42	Third party quality control work at IIM Amritsar	Prof. Dilbag Singh, Dr. Kailash Chand Sharma, Dr. Dinesh Shukla, Dr. Raman Bedi	CPWD	2021	2023	157300000	EE
43	Utilizing the power of real time data analytics and IoT to improve traffic & E Governance for smart cities	Dr. Utsav Upadhyay, Dr. Geeta Sikka	AICTE	2019	2021	1161000	CSE
44	Information security education and awareness-II	Prof. Harsh K Verma & Dr. Renu Dhir	MeitY	2015	2022	3606000	CSE
45	Robot for cleaning railway tracks	Dr KS Nagla	MHRD	2007	2010	130000	ICE
46	Shared autonomy system for field mobile robots	Dr KS Nagla	DST& ICT South Korea	2015	2018	3400000	ICE
47	Nature inspired smart surface with extreme wettability for separation and solute transport	Dr. Vickramjeet Singh	SERB	15-Nov-19	14-Nov-21	2,546,000	CY