

**Institute: Visvesvaraya National Institute of Technology, Nagpur**

**Institute ID: IR-1-E-E-U-0334**

**No. of Projects received amount in 2016-17-- 71**

**Total No. of Research projects running in 2016-17- 104**

**Total sanctioned amount of Projects running during 2016-17 3930.2136 Lakh**

SI No.	Financial Year	Name of Faculty (Principal Investigator)	Name of the Funding agency	Title of the Project	Sanctioned order no. and Date	Total Amount of Project (In Lakhs Rupees)	Amount received in 2016-17(in words)
1	2016-17	A Y Vyavhare, R Ralegaonkar	HUDCO	Design development of sustainable construction material from agricultural waste	NA	23.76	Twenty three lakh Seventy Six thousand
2	2016-17	Dr.A Y Vyavahare Dr. A Tiwari Dr. A Dhabale	CoE, VNIT	Design development of sustainable construction material from agricultural waste	NA	15.01	Fifteen lakh one thousand only
3	2016-17	PI:Dr.Rajashree kotharkar CoPI:Dr.Ratnesh Kumar	CoE, VNIT	Capacity building for climate change adaptation and mitigation with a special focus on sustainable habitat and risk management	NA	117	One Crore Seventeen lakh
4	2016-17	Dr.Ratnesh Kumar, Dr. R.k.Ingle	Precision Drawell Pvt. Ltd., Toughcrete Steel Fiber, "KESHAV" Block 6, 10th Bridge, Kamptee Road, Nagpur-440004	Evaluation of Toughcrete Steel Fibre – Concrete Composites for Flexural, Compressive, Impact Strength and Other Relevant Properties	NA	230	Two Crore Thirty lakh
5	2014 -16	Late, Prof. Alpana Dongre, Prof. Akshay Patil, Prof. Amit Wahurwagh, Prof. Ashwin Kothari, Prof. Kishor Burchundi	Centre of Excellence, Combedded Systems: Hybridizati on of Communications and Embedded Systems under NPIU (TEQIP - 1.2.1), Visvesvaraya Natioanal Institute of Technology, Nagpur, India	Acoustic Enhancement/ Optimization of a Typical Lecture Hall through Architectural interventions and Signal Processing in Hot and Dry Climate.	NA	9.87	Nine lakhs eighty seven thousand
6	2016-17	Prof. Sameer M. Deshkar	START International Inc., USA	Socio-Ecological Resilience as a Sustainable Development Strategy for Remote Rural Settlements in India	NA 12/1/2015	8.4	Eight Lakh Four thousand Only

7	2014-17	Dr. Rajashree Kotharkar	Department of Science and Technology, Science and Engineering Research Board (DST – SERB)	Evolving strategies for mitigating urban heat island in Nagpur using 'Local Climate Zones' and Human Thermal Stress	SB/S4/AS-110/2013 7/28/2014	18	Eighteen lakh rupees only
8	2017-20	Dr. Rajashree Kotharkar	Human Capacity building program of DST Climate Change Programme, New Delhi. (DST - CCP)	Capacity Building for Climate Change Adaptation and Mitigation with Special Focus on Sustainable Habitat and Risk Management	DST/CCP/HCB/12 6/2017(G) 3/30/17	43.4236	Fourty three lakh fourty two thousand three hundred and sixty only
9	2016-17	Dr. Piyush P. Wanjari	SERB	Investigation of selective CO <sub>2</sub> capture by graphene-carbon nanotube hybrid nanostructures using molecular dynamics simulations	ECR/2016/00126 7 2/28/2017	23.65	Twenty three lakhs and sixty five thousand
10	2016-17	Dr. Diwakar Z. Shende,	Vipra Ferro Alloys Ltd., Nagpur	Exploring the various applications of fly ash conduction of testing of ash and other raw materials and industry based technology development	CHE/JRP/04/1383 3/18/2014	2.2	Two Lakh Twenty Thousand Only
11	2016-17	Dr. Kailas L. Wasewar	HEMRL, DRDO Pune	Rheological Study of Hydroxyl Terminated Polybutadiene (Htpb) – Aluminium Nanoparticle (ANP) – Ammonium Perchlorate (AP) Composite Suspension	HEMRL/CARS/S RP/14-15 1/20/2015	10	Ten lakh
12	2016-19	Dr. Diwakar Z. Shende	SERB DST	Developing Functionalized Properties on Hollow Ceramic Microsphere for Specific Applications	EER/2016/00083 5 12/8/2016	46.98	Thirty Five Lakh Sixty Six Thousand Only
13	2016-17	Dr.C.Ravikumar	DST-SERB Extra Mural Research (Govt. of India)	'Nanoparticles of different shapes conjugated with drugs to achieve enhanced therapeutic efficacy in treatment of cancer	EMR/2016/00332 0 07-03-2017	27.66	Thirteen lakhs forty one thousand rupees only
14	2016-17	Dr. Ravi Methekar	DST -SERB	Model based optimal design and Fabrication of coin cells using spent lithium ion battery	ECR/201/000422 9/29/2016	33.64	Twentry one lakhs and thirty six thousand
15	2016-17	Dr Sachin Mandavgane	Department of Atomic Energy-Board of Research in	Development and testing of micro fine powder bio-pesticide using Neem	No 2012/35/38/BRNS 2/27/2012	22.5	Twenty two lakhs and Five thousand
16	2016-17	Dr Sachin Mandavgane	SERB	Removal of chlorinated herbicides from dilute aqueous solution using biomass ashes	SB/S3/CE/077/20 13 12/21/2013	47	Fourty Seven lakh

17	2016-17	Dr. Ashwin Gaikwad	SERB-DST	Experimental and Modeling Studies on the Ionic Liquid-mediated Catalytic Conversion of Lignocellulosic Biomass to Fuel Products	ECR/2016/00007 8 9/23/2016	25.33	Twenty Five Lakhs Thirty Three Thousand
18	2016-17	Dr Pradip Dhamole	DST	Extractive fermentation with surfactants to enhance butanol production	24/12/2013 24/09/2017	29.17	Twenty nine lakhs and seventeen thousand
19	2016-17	Dr. R. P. Vijayakumar	SERB	Production of liquid hydrocarbons and carbon nanotubes using waste plastics as precursor	SB/FTP/ETA-0235/2013 17/7/2014	27	Twenty Seven lakh
20	2016	Dr.S.S. Sonawane	SERB/DHPH	Development of High Performance Heat Transfer Nanofluids Using Carbon Nanotubes (SWCNT & MWCNT'S) Nanoparticles and Its Applications in Double Pipe Heat Exchanger	NA	5	Five lakhs only
21	2016-17	Dr. Umesh Pratap	SERB	Biocatalysis for the sustainable development of Organic synthesis	SB/279/2013 20/3/2017	5	Five lakh only
22	2016-17	Dr. Sangesh Zoda	UGC-DAE CSR	Synthesis, characterization of mixed ferrites and its applications	CSR-IC-BL-67/CSR-184/2016-17/848 9/2/2017	2.46	Two Lakh forty six thousand six hundred only
23	2016-17	Dr.S.S.Umare	DST SERB	Development of TiO2 Quantum dots and their composites for Photocatalytic Application	NA	46	Fourty Six lakh
24	2016-17	Dr. Susanta K. Nayak	SERB	Halogen-bonded supramolecules showing liquid crystalline properties	ECR/2016/00182 0/ 09-01-2017	29.37	Twenty Nine Lakhs and Thirty seven thousand
25	2016-17	Co-PI , Rajesh Gupta, PI-External	DST	Predictive Approach for Early Detection of Contamination Zone in an Intermittent and Continuous Water Supply System and its health impact	Department of Science and Technology, DST/TM/WT/2K16/171(G) 30/12/2016	7.76	Seven lakhs and seventy six thousand only
26	2014-15	Rahul V Ralegaohkar	HSMI, New Delhi	Development of Sustainable Construction Material from Agricultural Waste	HSMI/R&D/2013-14/2946 2/12/2014	9.52	Nine lakhs fifty thousand two hundred and eighty only
27	2015-17					9.52	Nine lakhs fifty thousand two hundred and eighty only

28	2014-17	Dr. A Mandal	SERB (DST)	Seismic Behaviour of Underground Structures	SB/S3/CEE/0002/2013 6/17/2014	57	Fifty seven lakh
29	2014-15	Dr. Anjan Patel	SERB	Modeling of permeability in multi-layered soil system using shear and compression wave velocities at different confining stress	SB/FTP/ETA-0371/2012 4/6/2014	17	Seventeen Lakh
30	2015-16				SERB/F/6156/2016-17 26/11/2016	3	Three lakh
31	2016-17	Dr. S.P.Wanjari	NTPC Raipur	Manufacture of Flyash sand	MOU with NTPC 6/15/2016	40	Twenty five lakhs only
32	2016-17		NTPC Raipur	Additional fund for Flyash sand	VNIT/SPW/2016-17 3/2/2017	8	Eight lakhs only
33	2017	Ashwini B Mirajkar	SERB(ECR)	Multi-purpose multi-reservoir operation and planning using Jaya Algorithm for equitable water distribution within upper Godavari Basin.	ECR/2016/00140 9 6/3/2017	1.07	One lakh seven thousand
34	2017	Shrabony Adhikary	SERB(ECR)	Site classification scheme and amplification factors for Indian seismic design code	ECR/2016/00131 6 1/3/2017	15	Fifteen lakh
35	2016-17	V A Mhaisalkar	SAMP MPCB	Air Quality Monitoring	NA	7	Seven Lakhs only
36	2016-17	V A Mhaisalkar	NAMP MPCB	Air Quality Monitoring	4/1/2016	12	Twelve Lakhs only
37	2016-17	APRB	V.S.LANDGE	Pavement Design	NA	9	Nine Lakhs only
38	2016-2017	Abhay Tawalare	Chief Conservator of Forest, Govt. of Maharashtra	Development of low cost, durable and easy to construct compound wall	D-27/1/C.R.31(16-17)/428 9/12/2016	5.64	Five lakh and sixty four thousand
39	2016-17	Dr. Praveen Kumar	SERB (DST)	Big Video Data Analytics for Surveillance and Security of Bank ATMs in a Smart City	NA	28	Twenty Eight Lakh
40	2016-17	Dr. S. R. Sathe Dr.U.A.Deshpande	MCIT, New Delhi	Information Security Education and Awareness Project Phase-II	12/2/2015	36.06	Thirty Six Thousand Six Hundred
41	2016-17	Dr. S.R.Sathe Dr. D. Shrimankar	Centre of Excellence TEQIP -II MHRD	Embedded Polony DNA Sequencing using Parallel Processing	NA	6.98	Rs. Six lakhs Ninety Eight Thousand
42	2016-17	Dr. Deepti Shrimankar	Diety, Gol	Genome -wide identification of cis-regulatory elements and development of G-logo tool for genome logo representation	NA	37	Thirty Seven Lakhs
43	2016-17	Poonam Sharma	Diety (Visvesvaraya young faculty fellowship)	Face Recognition under Unconstrained Environment for videos from internet	NA	7.4	Teven Lakh Four Thousand

44	2016-17	Dr UA Deshpande, Dr RB Keskar, Dr MP Kurhekar	IBM	IBM Shared University Research Grant	NA	6.64	Six lakhs Sixty Four Thousand
45	2012-16	K. M. Bhurchandi	Board of Research in Nuclear Science	Scale and Illumination invariant recognition of human faces using gray level still images	2012/36/09-BRNS 25/7/2012	21.95	Tentyone Lakh, Ninetyfive Thousand
46	2016-17	K. M. Bhurchandi	Department of Science and Technology	Development of Digital Dental restoration system	IDP/MED/15/2015 30/3/2016	42	Fortytwo Lakh
47	2013-17	Dr Ashwin Kothari	NPIU	Establishment of COE of COMBEDDED systems: Hybridization of Communication and Embedded systems under TEQIP 1.2.1	AC/TEQIP- II/CoE/13/886 7/12/2013	500	Five crore only
48	2014-17	Dr Ashwin Kothari	Seed grant CoE 4- e ,CoE VNIT	Interference mitigation in (BAN) Body Area Network through spectrum sensing	NA 7/22/2014	6	Six lakh
49	2014-17	Dr Ashwin Kothari	Seed grant CoE 4- e ,CoE VNIT	Acoustic Enhancement/ optimizations of A typical Lecture Hall Through Architectural interventions and signal processing in hot & dry climate	NA 7/22/2014	10	Ten Lakh
50	2014-17	Dr Ashwin Kothari	Seed grant CoE 4- e ,CoE VNIT	Smart structures with failure alarm & adaptive control system	NA 7/22/2014	15	Fifteen lakh
51	2014-17	Dr Ashwin Kothari	Seed grant CoE 4- e ,CoE VNIT	Design, Development & Fabrication of humanoid robot with adaptive gripping capabilities	NA 7/22/2014	10	Ten lakh
52	2014-17	Dr Ashwin Kothari	Seed grant CoE 4- e ,CoE VNIT	Development of camera based sensor for motion detection and its application for energy saving	NA 7/22/2014	12	Twelve lakh
53	2017	Dr. Vinay Kumar	SERB, DST	Design and Development of Underwater Sensor Networks using Magnetic Induction based Communications	NA	30	
54	2017	Dr. Vinay Kumar	MEITY	To develop a testbed based on Magnetic Induction (MI) communications for agricultural soil condition monitoring (water concentration, minerals, and toxic chemicals)	12(1)/2015- CC&BT 1/3/2017	41	Forty Lakhs and sixty eight thousand

55	2016-19	Dr.Prabhat Sharma	Science And Engineering Research Board	Full Duplex Wireless Communications: Performance Analysis and Implementation Issues	ECR/2016/00019 6 9/20/2016	21.51	Twelve lakh fifty one thousand seven hundred and ninety
56	2017-22	Dr.Prabhat Sharma	Ministry of Electronics & Information Technology	Development and Analysis of Spectrally Efficient Communication System for Future Generation IoT Applications	NA	37	Thirty Seven lakhs
57	2017	Dr.Prabhat Sharma	Ministry of Electronics & Information Technology	Implementation and Analysis of Bi-directional Visible Light Communication Systems with Associated Back-End Technologies	NA 1/1/2017	49.9	NA
58	2016-17	H. M. Suryawanshi	DST+EPSRC (UK)	Reliable and Efficient System for Community Energy Solutions (RESCUES), Consortium Project*	DST/RCUK/SEGES/2012/04 9/30/2014	9	Nine Lakhs
59	2016-17	H. M. Suryawanshi, M S Ballal	DST (SERI ) Solar Oriented Fundamental Research (SOFR)	Development of Efficient converter for Grid Integration	DST/TM/SERI/FR/104/(G) 6/15/2015	10	Ten Lakhs
60	2016-17	M S Ballal, H. M. Suryawanshi	High Rise Transformer, Nagpur	Development of Test Bench for performing various test of Transformer	HRT/NGP/GEN/Project/1617 2/5/2016	10	Ten Lakh
61	2016-17	M S Ballal, H. M. Suryawanshi	Huphen ElectromechPvt. Ltd. Nasik, Maharashtra, India	Development of industrial product regarding the improvement in the accuracy class of Industrial Metering system especially in Current Transformer	KE/NK/Project/14 4 5/18/2015	1.25	One Lakh Twenty Five Thousand
62	2014-17	Sunil Bhat	NPIU + TEQIP	Development of Camera based sensors for motion detection and its application for energy saving	NA 22/7/2014	12.15	Twelve Lakh Fifteen Thousand
63	2017-18	P. Pramod Chakravarthy	DAE(NBHM)	Numerical methods for solving multi-parameter singularly perturbed boundary value problems	No.2/48(33)/2016/NBHM(R.P)/R&D II/4533 31-3-2017	16.75	Sixteen Lakh Seventy Five thousand
64	2016-17	M.Devakar	NBHM, DAE	Studies on the flows of two immiscible incompressible micropolar and viscous fluids	No.2/48(23)/2014/NBHM-R&D II/2364 13-02-2017	46.02	Four Lakh Sixty Thousand Two Hundred only

65	2016-17	Pradip Roul	NBHM, DAE	Design, Analysis and implementation of numerical methods for doubly singular boundary value problems	2/48(14)/2016/NBHM(R.P)/R&D II/14608 02.11.2016	14.41	Fourteen lakh forty one thousand
66	2016-17	Pradip Roul	SERB, DST	Numerical methods for a class of singular two-points boundary value problems	SB/S4/MS:877/14 14.10.2015	2	Two lakhs only
67		Dr. A. M. Kuthe	DST/RGSTC	Biomedical Engineering and Technology centre Incubation	NA	39	Thirty Nine Lakhs
68		Dr. A. M. Kuthe	DST	Smart Foundary 2020	NA	63.88	Sixty three lakhs eighty eight thousand
69		Dr. Rashmi Uddan	DST	Development of Digital Dental Restoration	NA	31	Thirty one lakhs
70		Dr. A. S. Dhoble, Dr. M. S. Kotambkar	Tyco (India) Pvt. Ltd. Nagpur	Performance enhancement of grinding mill	NA	1	One Lakh
71		Dr. A. S. Dhoble	TEQIP-II	Experimental and numerical study of flow and heat transfer in cross flow heat exchanger	NA	1	One Lakh
72		Dr. Arun Singh	NRDMS-DST	Application of rate, state, temperature and pore pressure friction (RSTPF) model for rock slope stability and failure hazard assessment	NA	8.5	Eight lakh fifty thousand
73		Dr. Ravi Dumpala	DST (ECRA)	Development of Ni based composite coatings using electroless plating method for high temperature tribological applications	NA	23.81	twenty three lakhs eighty one thousand
74		Dr. Trushar Gohil	DST (ECRA)	Development of Fluid - Structure Interaction (FSI) Solver for Cardiovascular Disease: An Aneurysm	NA	13.35	thirteen lakh thirty five thousand
75		Dr. TVK Gupta	DST (ECRA)	Online Monitoring and Characterization of Distorsion in Multi Layer Laser Cladding Process	NA	22.1	twenty two lakhs ten thousand
76	2016-17	I L Muthreja	MOIL Ltd	Technical and Feasibility Study on Overburden Rock of Dongri Bezurg and Kandri Mine for Consolidated Stowing in Underground Mines.	R & D/10-11/VNIT/1042 11/3/2011	23.5	Twenty Three Lakh Fifty thousand

77	2016-17	AJEET SRIVASTA	SERB	Large Scale Synthesis of $WO_{3-x}$ nanowires for Chemiresistive gas sensors	ECR/2016/00108 1 15/09/2016	25	Twenty Five Lakh
78	2016-17	RAVINDRA TAIWADE	Anand Mines Tools Pvt. Ltd. Nagpur	Design and Analysis on weld joints of Aerofoil in jet blast deflector	NA 10/10/2016	25	Twenty Five Lakh
79	2016-17	ATUL BALLAL	UGC-DAE CSR	Assessment of Weld Interface Creep Cavitation of Ferritic/austenitic Dissimilar Weld Joint of Ferritic Modified 9Cr-1Mo and Austenitic 316 LN Steels	CSR-KN/CRS- 92/2016-17/1383 3/28/2017	4	Four lakh
80	2016-17	ATUL BALLAL	BRNS	Effect of Normalizing and Tempering on Tensile and Creep Properties of Grade 92 Steel	2010/36-BRNS/66 11/17/2016	6	Six lakh
81	2016-17	S U Pathak	Steel Development Fund	Steel Development Fund	NA	28	Twenty Eight Lakh
82	2016-17	Dr(Mrs.)A.V.Desh pande	DRDO	Development of Lithium Disilicate Based Nano Glass Ceramics for Armour Applications	ARMREB/MAA/20 16/187 11/28/2016	24	Twenty Four lakh
83	2016-17	Dr R S Gedam	DST-SERB	synthesis and characterization of glasses containing semiconductor quantum dots for optical fibre	SB/S2/CMP/- 0017/2013 24/04/2014	7	Seven Lakh
84	2016-17	Dr B. R. Sankapal	DST-SERB	Studies and development of polymer and/or inorganic nanomaterials coated carbon nanotube thin films towards supercapacitor	NA	38.75	Thirt Eight Lakh Seventy Five thousand
85	2016-17	Dr B. R. Sankapal	DST-TMD-MES	flexible solid state supercapacitor device	SB/S2/CMP- 0032/20113 24/04/2014	60.63	Sixty Lakh sixty three lakh
86	2016-17	Dr B. R. Sankapal	SERB-EMR	core shell nanowire/nanorods based device grade solid state solar cells	NA	47	Fourty Seven lakh
87	2016-17	Dr Hemachandra Gali	DST-SERB	Investigations on $Cu_2ZnSn(S,Se_4)$ thin films leading to the development of heterojunction solar cells	CSR-IC/CSR- 83/2016-17 4/7/2016	2.45	Two lakh forty five thousand



88	2016-17	Dr (Mrs) S. M. Giripunje	DST-SERB	Development of P3HT:PCBM solar cell containing Zn-Al and Zn-Fe Hydrotalcite nanoparticles in PEDOT:PSS layer to enhance efficiency	EMR/2015/00171 4/7/2016	8	Eight Lakh
89	2016-17	Dr K. Mohan Kant	DST	Fabrication of rare earth doped ceria electrolyte based prototype SOFC for intermediate temperature range	EMR/2016/00314 2 6/3/2014	20	Twenty lakhs only
90	2014-17	1) Prof. R. M. Patrikar 2) Prof. R. B. Deshmukh	Ministry Of Communication and Information Technology	Chip to system design special Manpower development program .	NA	462	
91		1) Prof. R. M. Patrikar 2) Prof. R. B. Deshmukh	Department of science and Technology	Exploration of Micro-cantilever platform for Agricultural Applications" .	NA		
92		1) Prof. R. M. Patrikar 2) Prof. R. B. Deshmukh	Aeronautical Development Agency	Design and Fabrication of instrument for microfluidic studies.(Ongoing )	NA		
93		1) Prof. R. M. Patrikar 2) Prof. R. B. Deshmukh	Rajiv Gandhi Science and Technology Commission Government of Maharashtra (RGSTC)	Center for Innovation, (Incubation Centre) VNIT. Nagpur (Ongoing)	NA		
94	2016-17	Dr. S. R. Sathe and others	Centre of Excellence on COMBEDDED SYSTEMS: "Hybridisation of Communications and Embedded Systems under TEQIP 1,2,3	TEQIP-II , MHRD	NA	500	

95	2017	Vinay Kumar	Design and Development of Underwater Sensor Networks using Magnetic Induction based Communications	SERB, DST	NA 31.01.2017	30	
96	2017		To develop a testbed based on Magnetic Induction (MI) communications for agricultural soil condition monitoring (water concentration, minerals, and toxic chemicals)	MEITY	NA	41	
97	2017	S Sinha	Application of Deep Learning on dual mode Photoacoustic and Ultrasound images for weakly supervised computer aided cancer diagnosis.	Ministry of Electronics & IT, Govt. of India	NA	37	
98	2017	R Keshari	Development of Contractless energy exchange system by autonomous electric vehicles	DST (SERB)	NA 29.01.2017	42.34	
99	2016		Condition monitoring performance evaluation of the distribution/power transformer health.	Tesla Transformer Ltd., Bhopal (MP)	NA	1.71	1.71
100	2016-17		Digital FO-PID for Industrial Applications	BRNS/BARC	NA	25	0
101	2016-17		Multti-phase (Six pahse) matrix converter for traction	DST	NA	42	17
102	2016	R V Uddanwadikar	Development of Digital Dental Restoration (DDR)System	Department of Science and Technology	NA	41.52	29
103		R V Dumpala	Development of composite coating for high temperature tribological application	DST(SERB)	NA 01.10.2016	36.54	
104	2017-20		Flexible solid state supercapacitor device	DST/TMD/MES	NA	60.63	