

## **Brief Biography of the Candidate**

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Vikki Narayan Shinde was born in August 1990 in small village Brahmangaon of Ahmednagar district in Maharashtra, India. He obtained his graduate degree in Chemistry from S. S. G. M. Collage Kopargaon, India during 2009-12 and post graduate degree in Organic Chemistry from same college during 2012-14. In July 2014, he joined Jubilant Chemsys Ltd. as research associate, where he received Torch Bearer Award in April 2015 and Best Chemist Award in March 2016. In July 2016, he joined as project fellow in the Ranbaxy sponsored project under the supervision of Prof. Anil Kumar and co-supervision of Prof. Dalip Kumar in Department of Chemistry, BITS Pilani, Pilani Campus, Rajasthan. Later in August 2017, he registered for the Ph.D. degree at BITS Pilani under the supervision of Prof. Anil Kumar and Prof. Dalip Kumar. In November 2020, he was awarded Council of Scientific Industrial Research Fellow (CSIR-SRF). His thesis work is focused on the development of reaction methodologies for synthesis and functionalization of heterocyclic compounds using metal catalyzed C–H bond functionalization reactions. He has published sixteen research articles in peer reviewed international journals and seven research articles are under preparation. He has also presented his work in four international conferences in the form of poster and oral presentations.

Mr. Shinde's research interest lies in exploring the application of transition metal-catalyzed cross-dehydrogenative coupling reactions for novel heterocyclic compounds.

## Brief Biography of the Supervisor

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Dr. Anil Kumar is Professor of Chemistry at the Birla Institute of Technology and Science, Pilani. He obtained his PhD degree from Department of Chemistry, University of Delhi, Delhi, India under the guidance of Professor SMS Chauhan in 2004. During his doctoral studies Dr. Kumar worked on development of heterogeneous catalyst for organic synthesis with emphasis on green chemistry. He was postdoctoral fellow at Department of Biomedical and Pharmaceutical Sciences, University of Rhode Island, Kingston, USA in Prof. Keykavous Parang group during May 2004 to April 2006. In his postdoctoral studies, he has worked on synthesis of novel Src kinase inhibitory agents and solid phase synthesis. He joined Department of Chemistry, Birla Institute of Technology and Science, Pilani, India as Assistant Professor in 2006 and was promoted to Associate Professor in February 2013 and Professor in August 2018. Dr. Kumar has also served as Associate Dean, Work Integrated Learning Programmes (WILP) during May 2014 – August 2018 and Head of Department of Chemistry, BITS Pilani, Pilani Campus during September 2014 – August 2016. He has visited University of Rhode Island, Kingston, (USA) Chapman University, Irvine, (USA) as Acadia University, Wolfville, (Canada) and University of Hohenheim, Stuttgart, Germany

Dr. Kumar is recipient of CRSI Bronze Medal (2020) from CRSI Bangalore, Prof. S. Vankateswaran Faculty Excellence Award (2017) from BITSAA, Dr. Arvind Kumar Memorial Award (2014) from Indian Council of Chemists, ISCB Young Scientist Award in Chemical Sciences (2013) from ISCB Lucknow and Harrison McCain Foundation Award (2012) from Acadia University, Canada. He has 21 year of research experience and over 15 year of teaching experience. His research interest lies in development of novel reaction methodologies using transition metal catalyzed C–C, N, S, O etc. coupling reactions, green chemistry, ionic liquids and medicinal chemistry. He has published over 170 research papers in international journals of repute in the area of synthetic organic chemistry, green chemistry and medicinal chemistry and contributed four book chapters. He has participated in several national and international symposiums/ conferences and delivered more than 45 invited lectures. He has guided twelve PhD students as supervisor and two as co-supervisor. Currently, he is supervising six PhD students as supervisor. He has completed six research projects as PI sponsored by SERB, DST, CSIR and UGC, and one as Co-PI sponsored by DST. Currently, he has one major projects from SERB and one from CSIR New Delhi. He is member of editorial advisory board for The Open Catalysis Journal and also served as a reviewer for several journals. He is life member of Chemical Research Society of India, Bangalore; Indian Society of Chemists and Biologists, Lucknow; and Indian Council of Chemists, Agra.

## Brief Biography of the Co-Supervisor

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Dr. Dalip Kumar is Professor of Chemistry at the Birla Institute of Technology and Science, Pilani. Dr. Kumar did his M.Sc. (Organic Chemistry) from Kurukshetra University, Kurukshetra, Haryana, India in 1997 under the supervision of Prof. Shiv P. Singh. He did his postdoctoral research work with Prof. Rajender S. Verma at Sam Houston State University, TX, USA (1997-1999) and with Prof. Sean M. Kerwin, at College of Pharmacy, University of Texas, Austin, TX, USA (1999-2000). In 2000, he joined Department of Chemistry, BITS Pilani, Pilani Campus, as a lecturer. Prof. Kumar went back to USA in December 2002 for his second stint of postdoctoral research with Prof. at Department of Chemistry & Biochemistry, University of Maryland, College Park, USA. He re-joined Department of Chemistry, BITS Pilani, Pilani Campus as an Assistant Professor in 2004. He was promoted to full professor in the year 2012. He served as Head of Department of Chemistry from 2004 to 2013.

Prof. Kumar has been involved in research for the last 25 years and in teaching for 17 years. As a result of his research accomplishment, he has over 150 international publications in peer reviewed journals. He has guided thirteen Ph.D students and currently he is supervising nine Ph.D. students. He has one US patent, one Indian patent and handled several projects from DST, DRDO, UGC, CSIR, DBT and DST-JSPS. He delivered Platinum Jubilee Award Lecture by Indian Science Congress Association (2018). Prof. Kumar is recipient of CRSI Bronze Medal (2017) from Chemical Research Society of India, Prof. R. D. Desai 80<sup>th</sup> Birthday Commemoration Medal and Prize (2015) from Indian Chemical Society, and Honorary Diploma for Scientific Achievements and International Scientific Collaboration-(2013) from Russian International Charitable Foundation “Scientific Partnership”, Moscow, Russia,

Prof. Kumar serves as an Associate Editor of Chemistry & Biology Interface Journal published by Indian Society of Chemists and Biologists, Lucknow. He is life members of Indian Science Congress Association, Indian Chemical Society, Indian Society of Chemists and Biologists, and Indian Council of Chemists.

Prof. Kumar’s research area includes the synthesis of porphyrin and indole based potential anticancer agents, functionalization of quinoline derivatives by employing organoiodine reagents and transition metal-catalysis.