

FACULTY PROFILE



1. **Name** : **Dr. Sachin Tanaji Mane**
2. **Educational Qualifications** : M.Sc., SET, NET, Ph.D.
Postdoc (IIT-Mumbai, Nanjing Technology University, Nanjing, China, Savitribai Phule Pune University, Pune)
3. **Designation** : Assistant Professor
4. **Address for Communication** : A/P-Darfal (Gawadi), Tal-North Solapur, Dist-Solapur-413222
5. **E-mail Id** : stm2011.mane@gmail.com
6. **Mobile No.** : 8308762919/9511273903
7. **Experience** :
a) Teaching - UG/PG : NA
b) Research- : > 4 years
8. **Details of Qualifications** :

Sr.	Exam.	Board / University	Year	Specialisation
1	Ph.D.	National Chemical Laboratory, Pune	2016	Polymer Chemistry
2	M.Sc.	Shivaji University, Kolhapur	2007	Organic Chemistry
3	B.Sc.	Dayanand College, Shivaji University, Kolhapur	2005	Chemistry

9. **RESEARCH CONTRIBUTION** :
a) **Research Guidance** : NA
b) **Research Papers Published** :

No.	Title of the Paper	Journal, ISSN & IF	Year, Vol. No., Page No.	Author/ Co-author
1	Catalyst-Free Development of N-Doped Microporous Carbons for Selective CO ₂ Separation	New J. Chem., 1369-9261, IF: 3.3	2021, DOI: 10.1039/D1NJ00644D	S. Mane , D. G. Kanase
2	Fabrication of Homocoupled Conjugated Microporous Polymers: The Role of Aromatic Ring Spacer in CO ₂ Capture	New J. Chem., 1369-9261, IF: 3.3	2021, NJ-ART-03-2021-001535	S. Mane , D. G. Kanase, S. Mohite
3	Development of High Yielded Sn-	ACS	2019, 7, 12,	S. Mane , Y.-X.

	Doped Porous Carbons for Selective CO ₂ Capture	Sustainable Chem. Eng., 2168-0485, IF: 7.6	10383-10392	Li, X.-Q. Liu, L.-B. Sun
4	Fabrication of Microporous Polymers for Selective CO ₂ Capture: The Significant Role of Crosslinking and Crosslinker Length	J. Mater. Chem. A, 2050-7488, IF: 11.3	2017, 5, 23310-23318	S. Mane, Z.-Y. Gao, Y.-Xia Li, D.-M. Xue, X.-Q. Liu, L.-B. Sun
5	Development of Adsorbents for Selective Carbon Capture: Role of Homo- and Cross-coupling in Conjugated Microporous Polymers and Their Carbonized Derivatives	ACS Sustainable Chem. Eng., 2168-0485, IF: 7.6	2018, 6(12), 17419-17426	S. Mane, Y.-X. Li, X.-Q. Liu, M.-B. Yue, L.-B. Sun
6	Rational Fabrication of Polyethylenimine-Linked Microbeads for Selective CO ₂ Capture	Ind. Eng. Chem. Res., 1520-5045, IF: 3.6	2018, 57, 250-258	S. Mane, Z.-Y. Gao, Y.-X. Li, X.-Q. Liu, L.-B. Sun
7	Rational Design and Fabrication of Nitrogen-Enriched and Hierarchical Porous Polymers Targeted for Selective Carbon Capture	Ind. Eng. Chem. Res., 1520-5045, IF: 3.6	2018, 57, 12926-1293.	S. Mane, Y.-X. Li, D.-M. Xue, X.-Q. Liu, L.-B. Sun
8	Role of Aliphatic Hydrocarbon Content in Non-solvating Porogens Toward Porosity of Cross-linked Microbeads	Polymer, 0032-3861, IF: 4.2	2016, 86, 8-14	S. Mane, M. Badiger, C. R. Rajan, S. Ponrathnam, N. Chavan
9	Synthesis and Characterization of Hypercrosslinked Hydroxyl Functionalized Co-polymer Beads	Eur. Polym. J., 0014-3057, IF: 3.9	2014, 59, 46-58	S. Mane, S. Ponrathnam, N. Chavan
10	Role of Interfacial Tension of Solvating Diluents and Hydrophilic-Hydrophobic Cross-linkers in Hyper-Cross-Linked Solid Supports	Ind. Eng. Chem. Res., 1520-5045, IF: 3.6	2015, 54(27), 6893-6901	S. Mane, S. Ponrathnam, N. Chavan
11	Interfacial Tension Approach Toward Drug Loading with Two-Dimensional Crosslinked Polymer Embedded Gold: Adsorption Kinetics Evaluation	Int. J. Polym. Mater. Polym. Biomater., 1563-535X, IF: 2.0	2016, 65(4), 168-175	S. Mane, S. Ponrathnam, N. Chavan
12	Design and Synthesis of Cauliflower-Shaped Hydroxyl Functionalized Core-Shell Polymer	Des. Monomers Polym., 1568-5551, IF: 1.8	2015, 18(8), 723-733	S. Mane, S. Ponrathnam, N. Chavan

13	Crosslinked Polymer Embedded Cu/Ag for Comparative Drug Adsorption and Kinetics Evaluation	Int. J. Polym. Mater. Polym. Biomater., IF: 2.0	2016, 65(6), 285-293	S. Mane , S. Ponrathnam, N. Chavan
14	Hyperhydrophilic Three-Dimensional Crosslinked Beads as an Effective Drug Carrier in Acidic Medium: Adsorption Isotherm and Kinetics Appraisal	New J. Chem., 1369-9261, IF: 3.3	2015, 39, 3835-3844	S. Mane , S. Ponrathnam, N. Chavan
15	Selective Solid-Phase Extraction of Metal for Water Decontamination	J. Appl. Polym. Sci., 1097-4628, IF: 2.5	2016, 133(1), 42849	S. Mane , S. Ponrathnam, N. Chavan
16	Synthesis and Characterization of Thermotropic Liquid Crystalline Polyimides	Bull. Mater. Sci., 0973-7669, IF: 1.4	2015, 38(6), 1553-1559	S. Mane , C. R. Rajan, S. Ponrathnam, N. Chavan
17	Hydrophobic Polymer-Supported Lewis Acid for Solid-Phase Synthesis	Can. Chem. Trans.	2016, 4(1), 32-46	S. Mane , S. Ponrathnam, N. Chavan
18	Effect of Porogen Concentration on Surface Area and Porous Properties of Cross-Linked Polymer Beads	Can. Chem. Trans.	2016, 4(2), 192-200	S. Mane , S. Ponrathnam, N. Chavan
19	Solid-State Synthesis of 9-(4-Nitrophenyl)-9H-Xanthene Derivatives by Multi-branched Silica-Supported Polyphosphoric Acid	Can. Chem. Trans.	2016, 4(3), 353-362	S. Mane*
<u>Review Articles</u>				
20	Enantiopurification of Racemic Drugs by Chiral Stationary Phases: A Review	Indian J. Pharm. Educ. Res., 0019-5464, IF: 0.4	2021, <u>ijper-100-21</u>	S. Mane , D. G. Kanase
21	Racemic Drug Resolution: A Comprehensive Guide	Anal. Methods, 1759-9679, IF: 2.6	2016, 8, 7567-7586	S. Mane*
22	Effect of Porogens (Type and Amount) on Polymer Porosity: A Review	Can. Chem. Trans.	2016, 4(2), 210-225	S. Mane*
23	Functional Polymers: A Review	Can. Chem. Trans.	2016, 4(3), 316-327	S. Mane*

24	Effect of Chemical Cross-linking on Properties of Polymer Microbeads: A Review	Can. Chem. Trans.	2015, 3(4), 473-485	S. Mane, S. Ponrathnam, N. Chavan
Patents				
25	Racemic Drug Resolution using Polymer Supported Chiral Selector	United States patent US9809706B 2	2017	S. Mane, S. Daniels, S. Deokar, S. Mule, S. Ponrathnam, N. Chavan
26	Metal Embedded Hydrophilic Polymer for Drug Delivery Applications	WO2016046 847A1	2016	S. Mane, S. Ponrathnam, N. Chavan
27	Hydrophobic Polymer-Supported Lewis Acid Catalyst and Process for the Preparation Thereof	WO2016113 761A1	2016	S. Mane, S. Ponrathnam, N. Chavan
28	Selective Solid-Phase Extraction of Heavy Metal Ions using Crown Ether Anchored Polymer Support	Provisional filing: 2724/DEL/2 014	2014	S. Mane, S. Ponrathnam, N. Chavan

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c) Research Projects

Sr.	Title of the Project	Major/Minor	Funding Agency	Duration
1	Conducting Polymer-Based Porous Bipolar Electrode for Rechargeable Metal-Air Batteries (SRG/2021/000029)	Major	DST-SERB, New Delhi	3 Years
2	Fabrication of Conducting Polymers as a Dual Gas Sensor for Toxic Industrial Chemicals	Major	UGC, India	2 Years
3	Porous Polymers for Carbon Dioxide Capture	Major	DST-SERB, India	2 Years
4	Design and Synthesis of Novel Heterogeneous Catalysts for Continuous Flow Synthesis	Major	IIT-Mumbai	6 Months
5	Carbonyl Group: A Molecule of Choice for Chemoselective Functional Group Transformation	MSc	NA	6 Months

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10. PARTICIPATION IN KNOWLEDGE EVENTS**a) International Conferences/ Seminars :**

Sr.	Theme of the Webinar/ Name of the Course	Organiser/ Name of the University/ASC	Date/Duration
1	Futuristic Aspects in Nanotechnology	Karmaveer Bhaurao Patil College, Vashi	15-16-Mar-2021
2	Green Technology & Sustainable Development	Jagannath University, Jaipur	24-Jul-2020
3	MACRO-2015	Indian Association for Cultivation Science, Kolkata	Jan-2015
4	NANOCON-014	Bharati Vidyapeeth University, Pune	Oct-2014
5	Advances in Polymer Sciences	National Chemical Laboratory, Pune	Oct-2014
6	Polymers: Vision and Innovations	Indian Institute of Technology (IIT), New Delhi	Feb-2014
7	Global Opportunities for Latest Developments in Chemistry and Technology	North Maharashtra University, Jalgaon	Feb-2014
8	Herbal and Synthetic Drug Studies	Abeda Inamdar Senior College, Pune	Feb-2014
9	Advances in Polymers and Coatings-Rangotsav	Institute of Chemical Technology (ICT), Mumbai	Jan-2014
10	Solid Waste Management and Technology”	Bharati Vidyapeeth University, Pune	Jan-2014
11	Recent Advances in Chemistry	Solapur University, Solapur	Nov-2013

b) National Conferences/Seminars :

Sr.	Theme of the Webinar/ Name of the Course	Organiser/ Name of the University/ASC	Date/Duration
1	Recent Trends in Organic and Inorganic Chemistry: From Teaching-Learning and Research Perspective	Jogalekar College, Ratnagiri	03-06-Apr-2021
2	Advances in Chemical Sciences and Sustainable Development (ACSSD-2021)	B. N. Bandodkar College of Science (Autonomous), Thane	06-Mar-2021
3	New Education Policy -2020	College of Education, Barshi	06-Mar-2021
4	Science and Technology for Sustainable Development with Women Empowerment	Government Science College, Gadchiroli	25-Feb-2021
5	ICT Tools For Chemistry Teachers	GADTLC, SGTB Khalsa College,	22-Feb-2021

		New Delhi	
6	One Day Online Teachers' Training Workshop on New Changed Syllabus of B.Sc.-III Chemistry	Dr. Patangrao Kadam Mahavidyalaya, Sangli	16-Feb-2021
7	Advances in Chemical Sciences and Sustainable Development (ACSSD-2021)	B. N. Bandodkar College of Science (Autonomous), Thane	06-Feb-2021
8	Revised Syllabus of B.Sc. III Chemistry Paper X & XIV	Dr. Ghali College, Gadhinglaj	27-Jan-2021
9	Effective Online Teaching-Learning Using Google Forms	Mahanth Madhusudan College, Bikram, Patna	5-Aug-2020
10	17th CRSI National Symposium in Chemistry	National Chemical Laboratory, Pune	Feb-2015
11	Mass Spectrometry for Chemists	CAMS, BioIncubator, and Venture Centre and National Chemical Laboratory, Pune	Sep-2014
12	Three Months Preparatory Course for Patent Agent Examination	IPFACE, Venture Centre, and National Chemical Laboratory, Pune	Apr-2014
13	National Science Day	National Chemical Laboratory, Pune	Feb-2014
14	National Science Day	National Chemical Laboratory, Pune	Feb-2013
15	National Science Day	National Chemical Laboratory, Pune	Feb-2013
16	Patent Certificate Course for Scientist and Engineers	IPFACE, Venture Centre, and National Chemical Laboratory, Pune	Feb-2014
17	Particle Size and Colloidal Stability Using Dynamic Light Scattering: Nano to Micro	Venture Centre and National Chemical Laboratory, Pune	2014

c) Other (State/University) Conferences/Seminars :

Sr.	Theme of the Webinar/ Name of the Course	Organiser/ Name of the University/ASC	Date/Duration
1	The Pedagogic Approach for Effective Teaching Learning Through Outcome Based Education (OBE)	Anjuman College of Engineering and Technology, Sadar, Nagpur	01-06-Mar-2021
2	National Level Chemistry Quiz Competition-2021	Government College for Men, Kadapa, Andhra Pradesh	27-Feb-2021
3	Anapan & Vipassana Meditation	Shri Shivaji College, Parbhani	05-Aug-2020
4	Spitting Kills	Caring Friends (Campaign)	April-May-2020

11. WEBINARS ATTENDED :**a) International Webinars Attended :**

Sr.	Theme of the Webinar/Course/Conference	Organiser	Date/Duration
1	Multidisciplinary Research	Guru Nanak College of Science, Ballarpur, Chandrapur	13-Mar-2021
2	Enhancing Effective Communications Skills	Balaji Institute of Management Sciences, Narsampet, Warangal, Telangana.	08-Mar-2021
3	Crossing Biological Barriers – Smart Modalities to Improve Performance of Polymer Nanocarriers	Deshbandhu College, Kalkaji, New Delhi	07-Mar-2021
4	Innovations in Science and Technology	Smt. Narsamma College, Kiran Nagar, Amravati	27-Feb-2021
5	Empowering Diversity in Science	Kamla Nehru Mahavidyalaya, Nagpur	09-Feb-2021

b) National Webinars Attended :

Sr.	Theme of the Webinar/ Name of the Course	Organiser/ Name of the University/ASC	Date/Duration
1	Intellectual Property Rights (IPR)	Shri R. R. Lahoti Science College, Morshi	24-Mar-2021
2	Teacher's Role in Implementation of New Education Policy	Swami Swatantranand Memorial College, Dinanagar, Gurudaspur, Punjab	09-Mar-2021
3	Recent Advances in Chemistry	Shankarrao Mohite Mahavidyalaya, Akuj	06-Mar-2021
4	Changing Paradigms of Rural Social Life through Economic Development	Government Girls' College, Khargone, Madhya Pradesh	06-Mar-2021
5	Impact of Fruit and Green Vegetables on General Immunity	Adv. B. D. Hambarde Mahavidyalaya, Ashti, Beed	05-March-2021
6	Systematic Data Organisation in Revised Accreditation Framework of NAAC	GADTLC, SGTB Khalsa College, New Delhi	28-Feb-2021
7	Innovative Technologies in AD Film Making to Promote Products	Sathyabama Institute of Science and Technology, Chennai	27-Feb-2021
8	Post-COVID-19 Indian Economy: Challenges and Opportunities	Radhabai Kale Mahila Mahavidyalaya, Ahmednagar	26-Feb-2021

9	Society After COVID-19 Pandemic	Tuljaram Chaturchand College, Baramati, Pune	25-26-Feb-2021
10	Career Opportunities in Chemical and Pharmaceutical Industries after UG and PG	Adv. B. D. Hambarde Mahavidyalaya, Ashti, Beed	24-Feb-2021
11	Functional Materials	Society for Promotion of Material Science, Nagpur	21-Feb-2021
12	National Seminar on Emerging Trends in Entrepreneurship Research	Karmaveer Bhaurao Patil College, Vashi, Navi Mumbai	20-Feb-2021
13	Business Model Shifts : Post COVID 19	Smt. S. K. Gandhi Arts, Amolak Science & P.H. Gandhi Commerce College, Kada, Ashti, Beed	13-Feb-2021
14	Wetlands and Water	Shri Vyankatesh College, Deulgaon Raja, Buldana	02-Feb-2021
15	Gender Equality	Sant Hirdaram Girls College, Bhopal	02-Feb-2021
16	How to Write Research Proposal in Various Research Funding Agencies	Anandibai Raorane College, Vaibhavwadi, Sindhudurg	12-Jan-2021
17	Start with an Idea	Nirmala Memorial Foundation College Kandivali East, Mumbai	30-Jan-2021
18	Indian Economic Policies for Entrepreneurship Development	S. M. Joshi College, Hadapsar, Pune	28-Jan-2021
19	Examining India's Examination System	GADTLC, SGTB Khalsa College, New Delhi	25-Jan-2021
20	Fuzzy Logic for Fundamental Research	Dattajirao Kadam College, Ichalkaranji	22-Jan-2021
21	Impact of COVID-19 on Indian Financial Sectors and Economy	Budge College, 24 Parganas, West Bengal	28-Aug-2020
22	Impact of Covid-19 on Migrant Labour	Mahavir Mahavidyalaya, Kolhapur	18-Aug-2020
23	The Trend of Assamese Literature in 21 st Century: An Analytical Discussion On Assamese And Bodo Poetry	Nandalal Borgohain City College, Dibrugarh, Assam	18-Aug-2020
24	Exploring the New Avenues of Writers, Poets & Thinkers During Covid-19 Pandemic	Sharadrao Pawar Arts & Commerce College, Gadchandur, Chandrapur	14-Aug-2020
25	Intellectual Property Rights: Patent Preparation and Prosecution	J. Watumull Sadhubella Girls College, Ulhasnagar, Thane	14-Aug-2020
26	Translation in Practice: Challenges And Possibilities	Shri Vyankatesh College, Deulgaon Raja, Buldana	13-Aug-2020
27	Impact of COVID-19 on Human	Sadguru Gadage Maharaj College,	12-Aug-2020

	Health in Pandemic Period	Karad	
28	Bake a Capability Cake: An Extraordinary Tool for Ordinary Women	Manonmaniam Sundaranar University, Tamil Nadu	08-Aug-2020
29	Liquid Crystals and Nanomaterials for Display Technology	Vignan's Institute of Management & Technology for Women, Hyderabad	08-Aug-2020
30	Higher Education System Envisioned in National Education Policy 2020 (NEP-2020)	Sangameshwar College, Solapur	8-Aug-2020
31	New Assessment and Accreditation Process for Affiliated Colleges and Development of Internal Quality	Borholla College, Borholla, Jorhat, Assam	07-Aug-2020
32	Current Trends in Indian History	Art's, Commerce And Science College, Kille-Dharur, Beed	07-Aug-2020
33	Fermentation Technology	K. R. College, Kovilpatti, Tamil Nadu	05-Aug-2020
34	Good Publication Practices: What & Where to Publish	S.R.T.M. University, Sub-Centre, Latur	04-Aug-2020
35	Impact of Covid 19 on Business Sector in India	St. Mary's Integrated Campus Hyderabad	3-Aug-2020
36	Effects of Covid-19 on Education	Smt. V. U. Patil & Late Dr. B. S. Desale College, Sakri, Dhule	02-Aug-2020
37	Non-Probability Sampling and Sample Size Determination	The Global Association of Social Sciences, Indore, Madhya Pradesh	02-Aug-2020
38	Impact of Covid-19 on Social Science Research : Challenges and Opportunities	Nandalal Borgohain City College, Dibrugarh, Assam	31-Jul-2020
39	Prevention of Sexual Harassment of Women at Workplace Act, 2013	KLE College of Law, Kalamboli, Navi Mumbai	31-Jul-2020
40	NAAC's Assessment and Accreditation Process - An Overview	Milind College of Arts, Nagsenvana, Aurangabad	25-Jul-2020
41	Covid-19 and the Climate Changes	Milind College of Arts, Nagsenvana, Aurangabad	24-Jul-2020
42	Stress Management During Covid-19 and Lockdown	Milind College of Arts, Nagsenvana, Aurangabad	23-Jul-2020
43	Impact of Novel Corona Virus Around the Globe & Future of Higher Education	Govt. Digvijay Autonomous P. G. College, Chhattisgarh	18-Jul-2020
44	Role of Government in Pandemic Situation to	Milind College of Arts, Nagsenvana, Aurangabad	18-Jul-2020

	Empower the Depressed Classes		
45	Covid-19 and Administrative Challenges	Art's, Commerce And Science College, Kille-Dharur, Beed	15-Jul-2020
46	Recent Trends in Advanced Material Characterizations	Adv. B. D. Hambarde Mahavidyalaya, Ashti, Beed	12-Feb-2020
47	Indian Stock Market	Adv. B. D. Hambarde Mahavidyalaya, Ashti, Beed	10-Feb-2020

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c) Other Webinars Attended

Sr.	Theme of the Webinar/ Name of the Course	Organiser/ Name of the University/ASC	Date/Duration
1	PFMS and General Office Administration	Dhananjayrao Gadgil College of Commerce, Satara	13-Feb-2021
2	MOOCs: A Conceptual Design	Shivaji College, Hingoli	26-Jan-2021

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12. ORIENTATION/REFRESHER COURSES

Sr.	Theme of the Webinar/ Name of the Course	Organiser/ Name of the University/ASC	Date/Duration
1	ARPIT-2020: Online Refresher Course In Chemistry for Higher Education	SGTB Khalsa College, New Delhi	Ongoing
2	21st Century Skills in Virtual Classrooms	GADTLC, SGTB Khalsa College, New Delhi	15-19-Mar-2021
3	Academic Report Writing and Research Methodology	GADTLC, SGTB Khalsa College, New Delhi	4-10-Mar-2021
4	Enhancing Quality of Chemistry Education in India	GADTLC, SGTB Khalsa College, New Delhi	25-Feb-2021 to 03-Mar-2021
5	Advanced Research Methodology Tools and Techniques	Ramanujan College, New Delhi	30-Jan-2021 to 14-Feb-2021
6	Digital Tools for 21st Century: Word Processing & Spreadsheets	GADTLC, SGTB Khalsa College, New Delhi	27-Jan-2021 to 02-Feb-2021
7	Faculty in Universities/Colleges/Institutes of Higher Education	Ramanujan College, New Delhi	10-Dec-2020 to 08-Jan-2021
8	Advance Tools in Research	Mata Gujri College, Fatehgarh Sahib	18-25-Jan-2021
9	One Month National Faculty Induction Program	GADTLC, SGTB Khalsa College, New Delhi	03-30-Dec-2020

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13. ACADEMIC ODYSSEY**a) Foreign Countries :**

Sr.	Name of the City and Country	Date(s)
1	Nanjing Technology University, Nanjing, China	23-11-2016 to 22-11-2018

b) India :

1	New Delhi	2	West Bengal
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14. CONTRIBUTION AS AN EXPERT :

Reviewer of Several Well-Reputed Journals

15. AWARDS AND HONOURS

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Sr.	Title of the Award	Instituted by	Year
1	Kothari Post-Doctorate Fellowship	Savitribai Phule Pune University, Pune	2018
2	SERB-Overseas Post-Doctorate Fellowship	Nanjing Technology University, Nanjing, China	2016
3	Institute Post-Doctorate Fellowship	Indian Institute of Technology, Mumbai	2016
4	PhD with Distinction	National Chemical Laboratory, Pune	2016
5	State Eligibility Test (SET)	UGC, New Delhi	2015
6	First prize in APC Rangotsav (Poster)	Institute of Chemical Technology, Mumbai, India.	2014
7	State Eligibility Test (SET)	UGC, New Delhi	2013
8	Senior Research Fellowship (SRF)	UGC, New Delhi	2013
9	Junior Research Fellowship (JRF)	UGC, New Delhi	2011
10	National Eligibility Test (NET)	CSIR-UGC, New Delhi	2010
11	Maharashtra State Certificate in Information Technology (MS-CIT) with Distinction (84%)	Maharashtra Knowledge Corporation Limited (MKCL)	Jul-2008

16. OTHER ACTIVITIES (if any) : Industrial Experience

1	Avon Organics Ltd., Pharmaceutical Industry (Feb-2009 to Nov-2010)
2	Vamsi Labs Ltd., Pharmaceutical Industry (Aug-2007 to Feb-2009).