Date: 22nd April, 2015
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This report is prepared on the basis of the proceedings of Research Partners’ workshop on Smart Cities Development at Gujarat Technological University. Research Partners’ workshop on Smart Cities Development took place at Gujarat Technological University Chandkheda Campus on August 22th, 2015 in Ahmedabad. The input for the report comes from the records, notes, documentation, and individual observation of the coordinator. It does not purport to reproduce in extenso all debates. None of the messages conveyed in this report may in any way be interpreted as stating an official position of the Gujarat Technological University.
Date: August 22, 2015

I would like to express my gratitude to the visionary and forward looking Vice Chancellor of Gujarat Technological University, Hon’ble Dr. Akshai Aggarwal, who always encouraged us and guided our team with passion. Furthermore I would also like to acknowledge with much appreciation the crucial role of the workshop management team. A special thanks goes to the team working at the core, Naresh Jadeja, Vimal Sharma, Vikrant Vala, Darshana Chauhan, and Gopal Bhatt, who helped in assembling all the parts together to a very successful end.

My thanks and appreciation also goes to the learned speakers at the workshop. The workshop would not have been so enlightening and informative to the participants without the excellent presentations and speeches of the distinguished speakers. Last but not least, many thanks to the participants for their keen interest in the workshop.

--

Prof. Shri Rajnikant Patel - MS (USA), MBA (USA)
Honorary Director, Graduate School of Smart Cities Development, and Advisor, Research & Consultancy Services Cell, Gujarat Technological University, Chandkheda, Ahmedabad-382424, Gujarat, India.
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# Final Program Schedule

## Research Partners’ Workshop on Smart City

### 9.00 to 9.30 am
- **Registration at GTU A2 conference Hall, A wing, Second Floor, GTU.**
- **Anchoring by Ms Darshana Chauhan (NO INAUGURAL SESSION)**

### TECHNICAL SESSION I

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Details</th>
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<tbody>
<tr>
<td>9.30 to 10.30 am</td>
<td>Role of GTU Research Partners in smart city development sector&lt;br&gt;Mr Rajnikant Patel, Hony Director, GTU Graduate School of Smart Cities Development (GGSSCD)</td>
</tr>
<tr>
<td>9.30 to 10.30 am</td>
<td>Research Opportunities in Smart Cities Development&lt;br&gt;Dr. Rajul K. Gajjar, Dean, GTU and Principal, VGEC, Ahmedabad</td>
</tr>
<tr>
<td>9.30 to 10.30 am</td>
<td>Role of Research partners and Activities of LCDE in Smart City Development&lt;br&gt;Dr G P Vadodaria, President, GTU RP Group and Principal, L D College of Engineering, Ahmedabad</td>
</tr>
<tr>
<td>9.30 to 10.30 am</td>
<td>Global experience sharing in smart city development by IBM&lt;br&gt;Key Note Speaker : Mr Neellesh Kelkar, Head Smart city Development, IBM, India</td>
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### 10.30 to 10.45 am
- **TEA BREAK**

### TECHNICAL SESSION II

<table>
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<tr>
<th>Time</th>
<th>Session Details</th>
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<tbody>
<tr>
<td>10.45 to 11.45 am</td>
<td>SPEAKERS FROM GTU KNOWLEDGE PARTNERS&lt;br&gt;Session Chairman: Dr Jagdish Joshipura, Director, Som Lalit Institute of Management, Ahmedabad</td>
</tr>
<tr>
<td>10.45 to 11.45 am</td>
<td>Solar applications in Smart city development&lt;br&gt;Dr Omkar Jani, Principal Research Scientist, Solar Energy, GERMI, Gandhinagar</td>
</tr>
<tr>
<td>10.45 to 11.45 am</td>
<td>ICT application for growth and monitoring of Smart City components&lt;br&gt;Mr Nilesh Purey, Vice President, Gift City, Gandhinagar</td>
</tr>
<tr>
<td>10.45 to 11.45 am</td>
<td>Dholera City Development as smart city&lt;br&gt;Mr. Ravi Kumar Kanduri, Director, AECOM &amp; Dy. Program Director for Dholera Smart City Development</td>
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### TECHNICAL SESSION III

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<tr>
<th>Time</th>
<th>Session Details</th>
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<tbody>
<tr>
<td>11.45 to 12.05 pm</td>
<td>Presentation by Research Partners on smart city experience&lt;br&gt;Moderators - Mr Naresh Jadeja, Dy Director GTU and Mr Vimal Sharma, Research Associate GTU</td>
</tr>
<tr>
<td>12.05 to 12.15 pm</td>
<td>Presentation by GTU Faculty on smart city lab (ACPC)&lt;br&gt;Mr. Mitesh Solanki, Assistant Professor GTU&lt;br&gt;Ms. Rutika Dhariya, Assistant Professor GTU&lt;br&gt;Mr. Hemal Nayak, Assistant Professor GTU</td>
</tr>
<tr>
<td>12.15 to 02.00 pm</td>
<td>Research Topic Identification Brainstorming Exercise&lt;br&gt;Dr C N Ray, Prof., CEPT University, Ahmedabad&lt;br&gt;In association with Dr Indu Rao, OSD GTU; Dr Sarika Srivatsva, Assistant Professor GTU; Dr Kaushal Bhatt, Assistant Professor GTU.</td>
</tr>
<tr>
<td>02.00 to 02.50 pm</td>
<td>LUNCH BREAK</td>
</tr>
<tr>
<td>02.50 to 05.15 pm</td>
<td>VISIT TO GIFT CITY GANDHINAGAR</td>
</tr>
<tr>
<td>05.15 to 05.45 pm</td>
<td>CONCLUDING SESSION&lt;br&gt;Dr Akshai Aggarwal, GTU VC&lt;br&gt;Mr Rajnikant Patel, Hony Director - GGSSCD</td>
</tr>
<tr>
<td>05.45 pm Onward</td>
<td>Distribution of Certificate&lt;br&gt;Dr R H Rajput, Chief Accounts Officer GTU</td>
</tr>
<tr>
<td>05.45 pm Onward</td>
<td>Networking High Tea</td>
</tr>
</tbody>
</table>
About Gujarat Technological University

Gujarat Technological University (GTU) is India’s most innovative affiliating type University established by Government of Gujarat vide Gujarat Act No. 20/2007. The University, caters to the entire field of engineering, architecture, urban planning, business studies (MBA programs), Computer Applications (MCA) and pharmacy in Gujarat.

Gujarat Technological University (GTU) is the largest technological University in western India with 4,50,000 students including foreign students from 31 countries, spread over 486 colleges in Gujarat. It is a state University with 17,500 Faculty Members in Engineering, Architecture, Pharmacy, Management, Computer Sciences, and Hotel Management. GTU has fourteen Post-graduate Research Centers, including Center for Infrastructure, Transport and Water Management, Center for Environmental and Green Technologies and Center for Environment and Energy Efficiency. It has sixteen Research Groups and three Boards for studies and Research.

The Innovation Council of GTU is well known in the country for its initiatives in grass root innovation work by its engineering students for solving problems of SME industrial units located throughout Gujarat. Intensive innovation efforts have resulted in many patentable outcomes. Its programs for student start-up development and its programs for dissemination of knowledge about IPR are well-known all over the country. It’s Policy Documents for Student Start-up, Development and Skill Development Mission are being used by universities all over India.

In the issue of Plexus1 of 1st August 2014, the Vice-Chancellor gave a call to every College to take up one area of national interest and to study its various aspects in all the departments of the College. Accordingly 19 Colleges from across Gujarat have taken up the study of Smart Cities as the area of interest. These Colleges are grouped together as Research Partners GGSSCD.

GTU had organized its first seminar Smart Cities-Quo Vadis? on August 30, 2014 at its campus to create awareness and sensitize on the subject amongst academician, researchers, businessman, and government officials in the context of 100 new smart cities announced by the government of India for development.

1 Plexus is the e-newsletter of GTU and it reports the activities of the Colleges.
At the 61st Foundation Day of the Institution of Electronic and Telecommunication Engineers on 2nd November 2014 at Ahmedabad, GTU’s Vice-Chancellor called upon the electronic engineers to help develop technologies and products for smart cities jointly with GTU’s students, researchers and Faculty Members.

Objectives of Gujarat Technological University (GTU)
The objective of the university is to develop the knowledge of science, engineering, technology, management and environment for the advancement of quality of life of the mankind in general and in relation to the domain of engineering and technological development and applications. The prime objectives of the university is to create centers and institutes of excellence in basic and applied science, engineering and technology in particular and other objects shall be as follows, namely:

1. To create institutes and centers of excellence for imparting state-of-the-art education, training and research in the fields of science, engineering, technology and management in general.
2. To create capabilities for upgrading for development of knowledge, skill and competency at various levels.
3. To create capabilities for upgrading the infrastructure of global standard for education, training and research in the areas related to engineering technology and science;
4. To develop patterns of teaching and training at various levels of educational accomplishments so as to set high standards of education in science, engineering and technology.
5. To function as a leading resource center for knowledge management and entrepreneurship development in the areas of science and technology.
6. To provide inter-relationship for national and global participation in the files of science, engineering, technology and management.
7. To establish close linkages with industry to make teaching training and research at the university relevant to the needs of the industry at national and global levels.
8. To make such provisions as would enable affiliated colleges to undertake specialization of studies.

To establish, maintain or take over by agreement and manage college, department center and institutes of research or specialized studies.
About GTU Graduate School of Smart Cities Development (GSSCD)

Gujarat Technological University has set up the Graduate School of Smart Cities Development (GSSCD) so as to create a resource center for the nation which understands the requirement of the cities and citizens and helps in the smart development by producing required resources. The Graduate School will contribute by imparting education, related to smart cities development. The Graduate School will also be involved in the research, consultancy and capacity building activities to support the governments at all levels.

The Graduate School seeks to involve industries and the society to ensure that its studies and research have a relevance to the needs of the society and the industries. Therefore, there the graduate school has invited KNOWLEDGE PARTNERS from industry and from cities to avail of their real life experience. Currently there are five KNOWLEDGE PARTNERS.

The Graduate School also promotes institutes for research partnership to carry out the research for the components at grass root level of smart city development. Therefore, the Graduate School Invited educational and research institutes of GTU and others to become Research Partner with the graduate school and created the only one of its kind of network of expert from various domain of expertise having similar interest of contribution in smart cities development. Currently there are 20 institutes across the states as Research Partners of the Graduate School.

Vision of GGSSCD

To become a national resource center in smart cities development by developing as a point of confluence for Industry, Academia and Government and help developing policies and plans at various Governmental levels.

Objectives of GGSSCD

Academic

• One year full time post graduate diploma (PGD) course on smart cities development.
• Conducting short certificate courses on related topics for developing skilled workforce.
• E-courses on various aspects of organization, technologies and life in smart cities.
• To become a national resource center in smart cities development by developing as a point of confluence for Industry, Academia and Government and help developing policies and plans at various Governmental levels

Research

• To work with universities and research institutions across the globe to develop new technologies
• To conduct research on the requirements of the Indian cities & citizens and help determine the best of technologies being used across the world in Indian context in collaboration with GSSCD RESEARCH PARTNERS.
• To develop strategies for development, which enhances cultural strength of our diverse society in the area, where the smart city is located.
Consulting & Advisory
- Organizing Seminars / workshops /symposium in India.
- Capacity building and training by training municipal engineers and managers, government officers and industrial workers, required for smart cities.
- Advisory functions to government and industry.
- Techno management consultancy

Knowledge Partners
GTU seeks to involve industries and the society in all its Post-graduate research centers and schools in order to ensure that its studies and research have a relevance to the needs of the society and the industries. Accordingly it is planned to have knowledge partners from industry and from cities to avail of their real life experience.

Following organizations are the Knowledge partner of SSCD.

1. Gujarat Infrastructure Development Board (GIDB)
2. Gujarat International Finance Tec-City (GIFT City)
4. CMAI Association of India*
5. Microsoft India*
6. IBM India*

* Subject to formal confirmation

Research Partners
Research Center for Infrastructure, Transportation and Water Management (CITWM) at Gujarat Technological University is research partner of Graduate School of Smart Cities Development (SSCD). The center will conduct research activities for the graduate school. The Graduate School invited engineering colleges and research institutes to become Research Partner with the graduate school. By this the graduate school is attempting to make only one of its kind network of expert from various domain having similar interest of contribution in smart cities development. Currently there are 20 research partner institutes.
Recent Activities of the Graduate School

1. Inaugural Workshop

Gujarat Technological University organized inaugural workshop of Graduate School of Smart Cities Development on April 18, 2015 at GTU Chandkheda Campus in Ahmedabad. Shri M Venkaiah Naidu Hon’ble Minister of Urban Development, Govt. of India was invited as chief guest of the event. The Graduate School of Smart Cities Development was inaugurated by Hon’ble Minister Shri M Venkaiah Naidu.

The Inaugural session involved welcome speech by Hon’ble Registrar of GTU Shri J C Lilani; Context Setting of the Workshop by Hon’ble Vice Chancellor of GTU Dr. Akshai Aggarwal; Key Note speech by Prof. N K Goyal, President, CMAI Association of India (GTU Knowledge Partner); Speech by Guest of Honor Ms. Mona Khandhar-IAS, Secretary at UD&UHD, Govt. of Gujarat; Introduction of Chief Guest Prof. T. Harinarayana, Director, GEMI – PDPU (GTU Knowledge Partner); Inauguration & Address by Chief Guests Hon’ble Minister Shri M. Venkaiah Naidu, Minister of Urban Development, Government of India; and Vote of Thanks by Prof. Shri Rajnikant Patel, Hon. Director, Graduate school of Smart Cities Development.

Please click on the following link for the detailed Inauguration report.

http://smartcities.graduateschool.gtu.ac.in/docs/GTU%20GSSCD%20Inauguration%20Workshop_Report_V02.pdf

2. Three Days National Professional Smart Cities Training Program

There are many speculations about Smart Cities Development in India after the roll out of Smart Cities Mission for making 100 smart cities by the Central Government. Adopting the concept of smart cities from already developed foreign smart cities would be helpful but emphasis should be given on independent thinking to develop strategy as per Indian situation. The course objective is to orient the policy makers and ULB officials for smart cities.

The Modules covered in the training program were Understanding Smart Cities (Concepts, Dentitions and Practices); Smart Cities Bench Marks, Standards and Performance Measurement Indicators; Technological Options for Smart Cities; Financing Smart Cities Development; Road Map and Safe Guards for Smart Cities; Smart Cities: Issues & Challenges by Smart City Council India; Exposure visit to GIFT city, Smart Urban Governance and Urban Renewal.
The target audience were Sr. Urban Executive, Officials from State Urban Development department, Municipal Corporations, Urban/Area Development Authorities, Officials of Proposed smart cities, Professionals, Researchers, Private sector organizations, and NGOs.

Lighting of lamp by Hon’ble Minister Shri Bhupendrasingh Chudasama, GoG & Shri Dhanksukh Bhandari, Chairman, GMFB, Gandhinagar.

Mr. Pratap Padode, Director- Founder, Smart Cities Council India giving presentation.

Participants from various states in the workshop

Visit to Heritage city Ahmedabad: Group picture of participants inside Jumma Masjid, Relief Road, Ahmedabad.

The 3 days program included lectures of various modules, exercise on developing smart cities and exposure visit to understand all the three components, retrofitting, redevelopment and pan city initiatives, of smart cities development. 57 participants from 8 states of India participated in the workshop and all felt highly satisfied with the takeaways from the workshop. Gujarat Technological University received excellent feedback form the participants.
Research Partners’ workshop on Smart Cities Development

Background
There are many possibilities about Smart Cities Development in India after the roll out of Smart Cities Mission for making 100 smart cities by the Central Government. Adopting the concept of smart cities from already developed foreign smart cities would be helpful but emphasis should be given on independent thinking to develop strategy as per Indian situation.

After the successful completion of 3 Days National Professional Smart Cities Training Program, Gujarat Technological University conducted a workshop for the Research Partner Institutes on Smart Cities Development in India on the similar pattern of the previous smart cities training program.

Workshop Objective
The workshop objective was to identify and develop research topic of various component of smart cities as may be suitable based on available resources of Research Partners.

Workshop Proceedings
The workshop was held at GTU Chandkheda on August 22, 2015. Around 50 participants mainly faculty members and students of GTU-GSSCD research partner institutes from across the state participated in the workshop. The workshop included lecture from the experts in the domain, brain storming exercise and visit to India first GOI recognized smart city, GIFT City.

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<tr>
<th>Time</th>
<th>Activity</th>
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<tr>
<td>09.00 am - 09.30 am</td>
<td>Registration</td>
</tr>
<tr>
<td>09.30 am - 10.30 am</td>
<td><strong>Technical Session I</strong>: Overview of smart cities development</td>
</tr>
<tr>
<td>10.30 am - 10.45 am</td>
<td>Tea Break</td>
</tr>
<tr>
<td>10.45 am - 11.45 am</td>
<td><strong>Technical Session 2</strong> Specific issues of smart cities</td>
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<tr>
<td></td>
<td>Speakers from Knowledge Partners: Gift City, GIDB and GERMI</td>
</tr>
<tr>
<td>11.45 pm - 1.45 pm</td>
<td><strong>Technical Session 3</strong> Presentation by Research Partners on work done So far. Research topic identification exercise.</td>
</tr>
<tr>
<td>01.45 pm - 02.45 pm</td>
<td>Lunch Break</td>
</tr>
<tr>
<td>02.45 am - 05.15 pm</td>
<td><strong>Visit to GIFT CITY, Gandhinagar.</strong></td>
</tr>
<tr>
<td>05.15 pm - 05.45 pm</td>
<td><strong>Concluding Session and Distribution of Certificates of Participation</strong></td>
</tr>
<tr>
<td>05.45 pm onwards</td>
<td>Networking High Tea</td>
</tr>
</tbody>
</table>
Technical session 1: Overview of smart cities development
The technical session 1 consisted welcome speech by Mr. J C Lilani, Registrar, GTU, followed by speech from Shri Rajnikant Patel, Honorary Director of Graduate School of Smart Cities Development on the whole idea of Smart Cities Development in India.

Please click on the link to see the speech of Shri Rajnikant Patel: https://youtu.be/nz691TSrhxo

Subsequently, Dr. Rajul K. Gajjar, Dean, GTU and Principal, VGEC, Ahmedabad talked about Research Opportunities in Smart Cities Development and Dr. G P Vadodaria, President, GTU RP Group and Principal, L D College of Engineering, Ahmedabad spoke about Role of Research partners & presented the activities of LCDE in Smart City Development.

Please click on the link for presentation of Dr. G P Vadodaria: https://goo.gl/d9Mc7S

The Key note speaker, Mr Neelesh Kelkar, Head Smart city Development, IBM, India presented on creating opportunities through leadership and innovation.

Please click on the link for presentation of Mr Neelesh Kelkar: https://goo.gl/obJNdz

Technical Session 2: Speakers from GTU Knowledge Partners
During technical session 2, Dr. Omkar Jani, Principal Research Scientist, Solar Energy, GERMI, Gandhinagar presented about solar applications in Smart city development.

Mr Nilesh Purey, Vice President, Gift City, Gandhinagar explained about ICT application for growth and monitoring of Smart City components.

Mr. Ravi Kumar Kanduri, Director, AECOM & Dy. Program Director for Dholera Smart City Development shared the experience on Dholera City Development as smart city.

Technical Session 3: Presentation by Research Partners
During technical session 3, the following Research Partners institutes presented their work done in Smart Cities Research.

• Atmiya Institute of Tech. & Science, Rajkot.
• G H Patel College of Engineering & Technology, Vallabh Vidhya Nagar.
• Laxmi Institute of Technology, Valsad.
• Vishwakarma Govt. Engg. College, A’bad.
• SAL College of Engineering & Technology, A’bad.

Additionally, GTU CiC3 Team presented about the proposed Smart City Lab at GTU.

Click on the link to see all presentations and report of Technical Session 3: https://drive.google.com/folderview?id=0B3mk28Vmn7SMfmi1ZVZsN0ITN2FxbEp5cXV2bmxzLWI4MzRhUWJ5b2NDbzAweEhqTXFYNHc&usp=sharing
Field Visit to GIFT City Gandhinagar

The participants were taken for visit to GIFT City, Gandhinagar to have the exposure and experience of a Greenfield Indian Smart City. Starting with a corporate presentation on GIFT City, the participants were explained about Smart Data Centre at GIFT City. Followed with the visit to the model room of GIFT City. The participants were then taken to the utility tunnel which became the key attraction at GIFT City. The GIFT City visit ended with a tour of city.

Concluding Session

Mr Rajnikant Patel, Hony Director – GGSSCD concluded the workshop and certificate distribution was done by Dr R H Rajput, Chief Accounts Officer GTU and Dr. Indu Rao, OSD, GTU.
Glimpses of the workshop
Glimpses of the workshop
Annexure 1: Profile of Speakers / Session Chairman

Dr. Akshai Aggarwal
Hon’ble Vice Chancellor, Gujarat Technological University

Dr. Aggarwal started his teaching career at Faculty of Technology, M.S. University of Baroda. From 1984-89 he was Professor and Head of Department of Electrical and Electronic Engineering. From 1987-1989, he worked as the Dean of Students. He was also Chairman of Computer Society of India, Vadodara Center during 1988-90. He was active in the Book Bank for poor students and in helping the citizens organize cultural activities.

From 1989-99, Dr. Aggarwal worked as Professor and Head, Department of Computer Science, Rollwalla Computer Center, Gujarat University. He was also Chairman of IEEE Gujarat Section and its Computer Society Chapter from 1990 to 1998. For two years 1998-1999, he was Chairman of IEEE India Council.

At University of Windsor, Dr. Aggarwal was recognized as both a passionate teacher and researcher in his field. He has earned numerous awards. At Windsor, when he saw that the economy of the city was bleeding due to high unemployment, he founded Softech Alliance and chaired it till September 2009 so that University researchers and the ICT community could work together with the government to help generate new jobs in the knowledge sector.

He joined GTU on 8th June 2010. During these years he has taken several initiatives like Excellence in learning processes by using IT and by bringing together the resources from the large numbers and using them optimally; Making the technology teaching more practice oriented; GTU Innovation Council; Improving the quality of Master’s dissertations; World class doctoral program; The greatest contribution is that the University community has started feeling that it can become an excellence university.

Mr Neelesh Kelkar
Head Smart city Development, IBM, India

Neelesh has over 21 years of experience in various sectors like infrastructure & Buildings, Electrical, Food & beverages, HVAC Compressor, and in various fields manufacturing, marketing and corporate strategy.

He has been working in Buildings & Infrastructure industry for last 10 years. He has successfully spearheaded IBM India’s first smart city WIN – Palava City in 2014. He has held key roles with major Building Management OEMs & worked with many systems integrators while working in building industry. He is also working as visiting faculty for few Management institutes in Mumbai & Pune and was associated with University of Pune as Examiner and guide for many students.

Neelesh was also a technical committee member of Bureau of Indian Standards for Home Automation & Modula switches. Much of his recent focus has been on creating repeatable, value based customer propositions and supporting city development initiative with IBM in employing these to maximum effect.
As part of a much talked about initiative Smarter Cities, he is engaged with major stake holders of some of the important cities in India. Presently he driving the business initiative in Smarter Cities and Smarter Buildings and providing platform & solutions to clients.

**Dr. G P Vadodaria**  
Principal, L D College of Engineering, Ahmedabad and President, GTU RP Group  

Dr. G. P. Vadodaria completed his bachelors’ degree in the field of Civil engineering from M.S. University of Baroda in the year 1991. Thereafter he joined C U Shah Polytechnic College, Surendranagar as a lecturer in civil engineering. In March’95, he topped GPSC examination and posted as a lecturer at L D Engineering College, Ahmedabad. He completed his master’s degree in the year 2000. In 2004, he got admission under QIP as a PhD scholar at IIT Delhi and was deputed from July’2005 to July’2008 at IIT Delhi for his PhD work. He was deputed by Government of Gujarat at GTU Ahmedabad on the charge of the registrar and controller of examination, from September 2008 to October 2014. At present he is Principal at L D College of Engineering Ahmedabad.

During his research work he published 05 research papers in peer reviewed journals (ASCE(Irrigation and drainage), ICE(Proceedings of Water resources management) and Journal of Hydrology(Elsevier)), 14 papers in proceedings of international conference which includes paper presentation at EWRI conference at Bangkok, National Singapore University & International Conference on Information Technology in Construction” INCITE at Tsinghua University, Beijing and 07 paper in proceedings of national conference. He is also a life member of various international organization such as International Association of Hydrologists (IAH), International Association of Engineers (IAE), Institute of Engineers (IE), Indian Association of Hydrologists, ICE (UK) and Indian Association of Hydrologists.

He has supervised more than 25 thesis at master’s level and also supervising research work of three PhD students in the area of water resources management, technological intervention in improving water quality, artificial recharge of groundwater. He is associated as a registered supervisor in various university.

**Shri Rajnikant Patel**  
Honorary Director, Graduate School for Smart Cities Development and Advisor (RCSC), Gujarat Technological University.  
B.E. (Mech) (1961) Gujarat University, AHMEDABAD  
M.S. (Mech) (1962) University of Wisconsin, USA and  
M.B.A. (1966) University of Chicago, USA

Shri Rajnikant Patel possesses more than 3 decades of Global Project Management Consultancy experience including turnkey projects and technology transfer.

Shri Rajnikant Patel is honorary director of Graduate School for Smart Cities Development at GTU. He is also heading the Research and Consultancy Services Cell (RCSC) at GTU. He is director, Ecotech Consultants, Ahmedabad. Shri Rajnikant Patel is also active as National Consultant to Kalpasar Gujarat Technological University - Graduate School of Smart Cities Development
Infrastructure Project, Government of Gujarat, Gandhinagar, Visiting Faculty, CEPT University, Ahmedabad; Visiting Faculty at PDPU, Gandhinagar; and Chairman I Q Forum for Justice, Ahmedabad, (A Registered NGO). He has received several National and International achievement Awards and Medals for Project Management Consultancy work.

**Dr. J.P. Joshipura,**
**Director, Som-Lalit Institute of Management Studies, Ahmedabad.**

Dr. Joshipura is a Chartered Accountant of 1973 batch and Doctorate in Finance. Currently, he is a Director of Som-Lalit Institute of Management Studies, Ahmedabad. He is also a member of Academic Council of Gujarat Technological University (G.T.U.) and also Vice President of G.T.U. Consultancy Cell.

Prior to coming to Academics, he was General Manager of GSFC. He has attended more than seven International conferences where his research papers got published. He is on the Board of Sadbhav Infrastructure Company and few other companies.

**Mr. Omkar Jani**
**Principal Research Scientist (Solar Energy)**
**Gujarat Energy Research and Management Institute (GERMI)**

Dr. Omkar Jani is currently the Principal Research Scientist (Solar Energy) at the Gujarat Energy Research and Management Institute (GERMI). He initiated solar energy-related activities at GERMI, and today GERMI provides advisory for various solar and renewable energy-related government initiatives, policy and regulation; undertakes or supports pilot programs in renewable energy for the Government of Gujarat; conducts fundamental and applied research; and undertakes capacity building at both professional and vocational levels. Dr. Jani is the main architect of the 5 MW Gandhinagar Photovoltaic Rooftop Program that has transitioned rooftop solar programs in India at the megawatt-scale, and responsible of setting up solar technician programs in several ITIs of Gujarat; both these initiatives are the first of its kind in India.

Dr. Jani is a member of the State Advisory Committee of the Gujarat Electricity Regulatory Commission. He is also an advisor to several clean energy-related companies and NGOs. Prior to his work with GERMI, Dr. Jani founded and headed the Kanoda group of companies, which is comprehensive solution provider in the field of solar and smart technologies.

During his research, Dr. Jani has worked on programs funded by U.S. Defense Advanced Research Projects Agency (DARPA), U.S. Department of Energy (DOE), National Renewable Energy Laboratory (NREL), National Aeronautics and Space Administration (NASA) and Solar America Initiative (SAI), and also on collaborative projects with solar photovoltaic companies such as BP Solar and SunPower Corp. Dr. Jani has over 50 national and international journal and conference publications.

Dr. Jani received his Ph.D. in Electrical Engineering from Georgia Institute of Technology with specialization in Solar Photovoltaic Science and Engineering; and his post-doctoral fellowship from the Institute of Energy Conversion, Delaware. His interests lie in high-efficiency silicon and related technologies.
heterojunction photovoltaics; effective planning and implementation of renewable energy policy; and renewable energy capacity building.

**MR. NILESH PUREY**  
*Vice President, ICT, Gujarat International Finance Tec-City Co. Ltd., Gandhinagar.*

Mr. Nilesh Kumar Purey is working as Vice president – Information and communication Technology for GIFT city Ltd.

Mr. Purey has master’s degree in Electronics and telecommunication and MBA with specialization in Information System from Devi Ahilya University, Indore. He is a Certified information systems auditor (CISA) and Certified Information security manager (CISM) from ISACA.ORG, Illinois, USA. Along with other certificate like lean expert and ITIL, he is also a ITSM (Information technology service management) auditor.

Mr. Purey is a prominent speaker in various forums on the domain of Smart Cities, Information Security and role of ICT in infrastructure development. Mr. Purey has won multiple awards including Cisco Technology Award -2014, IDC –ICONIC Award & e-LETS award for Innovation. He has around 18 years of experience in designing, rolling out and managing green field multi-location IT and telecom projects. His area of expertise are Telecom, BFSI, Retail and Infrastructure domains.

Mr. Purey is also advisor to Gujarat Technical University (GTU) Graduate School of Smart Cities Development. He is also working with various bodies like TRAI and BIS for Smart Cities & intelligent building development.

**Mr. Ravi Kumar Kanduri**  
*Director, AECOM & Dy. Program Director for Dholera Smart City Development.*

Mr. K. Ravi Kumar has more than 28 years of Experience in all aspects of studies, design and construction supervision, management of Highways and Structures, Urban Infrastructure in India & abroad. Responsibilities have involved Business Development, Planning, Design, Preparation of DPRs, Contract Administration and Supervision of Construction activities including Determination of Variations, Claims of Contractors for roads and highways, Housing, Water & Wastewater, Storm water Drainage, BRTS Projects funded by the World Bank and Asian Development Bank and BOT/Annuity Projects, JNNURM. Well acquainted with modern construction equipment, Quality Control Tests & Quality Assurance. Well versed with Concept of PPP, DBFOT Projects, FIDIC Conditions of Contract, Very good Knowledge on all the aspects of Highway and Urban Infrastructure Projects.

Mr. Ravi is presently working as Director, AECOM and responsible as Dy. Program Director and Implementation Manager for Program Management of New Cities (PMNC) of DSIR (Dholera Special Investment Region), a new City in the State of Gujarat and other Urban projects and perform activities to plan, integrate, package, administer and manage, planning, development, design and construction projects and to ensure on-schedule, under budget delivery of projects consistent with the Quality. He will provide all assistance in bidding, evaluation and awarding of works to the Client and work as an
extended arm of the Client in handling all the Projects in the Program from initiation to closure. The primary role involves management of designs, construction contracts by reviewing, managing and supervising.

Mr. Naresh Jadeja,
Deputy Director, GTU.

Naresh Jadeja is a Chemical Engineer, graduated from L. D. College of Engineering Ahmedabad and has Master of Engineering degree in Chemical Engineering and Master of Science degree in Chemistry from Stevens Institute of Technology, USA. He has worked with USA’s Environment Protection Agency (EPA) directed projects on Air, Water and Soil pollution in USA for 7 years and then joined Gujarat Technological University (GTU) as Deputy Director. Currently Mr. Naresh Jadeja is looking after New Engineering Projects at GTU in addition to promoting GTU’s initiatives in Skill Development and Entrepreneurship.

Dr. Chandra Nath Ray
Professor, CEPT University, Ahmedabad.

Dr. Chandranath Ray is Professor at Faculty of Planning at CEPT University. He has also held the position of Chairman Academic Affairs, Faculty of Planning for the period of four years. Prof. Ray took the initiative to start a new Post Graduate Program in Rural Planning and remained its head for the period of 2009 to 2013. He has a Doctorate in Rural Development from Kumaun University, Nainital and Master’s in Sociology from the Calcutta University. He was the recipient of Doctoral Fellowship from Indian Council of Social Science Research, New Delhi at Giri Institute of Development Studies, Lucknow in 1981. Prof. Ray has authored two books and several articles in recognized journals in India and abroad. He has worked on various research and consultancy projects and visited various countries for research purpose. He has been actively affiliated with different universities as examiner for Doctoral and M.Phil. Theses in India. He has presented many papers, delivered lectures, organized field research and guided many Doctoral and Post graduate students. He was a Consultant for the Regional Urban Development Office of the USAID, New Delhi during the period of 1995-2000. He has conducted international Training Program in Dhaka, Bangladesh and also in Colombo, Sri Lanka. Prof. Ray has attended international training programs at Asian Institute of Technology, Bangkok and Asian Disaster Preparedness Centre in Bangkok, Thailand. He is interested in understanding human behavior, community organization and issues of poverty, environment, and governance. Personally he likes travelling, photography, making new friends and is a gourmand.

I am a management researcher and scholar, and now an administrator. Having completed B.E.(Electrical), MBA, PhD (Management) and a second PhD (Management, Behavioral and Social Sciences) in Universities across three continents, I have experienced and learned to work with educators and students from different cultures and different higher education systems. Teaching is my passion and so is research. I strive to contribute to quality in management education, and to improve upon the relevance of both teaching and research to society. I wish people are always fair and sincere at least in the noble field of imparting education and learning. I am also sensitive to the dignity of women at work, at home and in society.
Report on Research Partners’ workshop on Smart Cities Development

Dr. Indu Rao
Officer on Special Duty, Gujarat Technological University.

She is a management professor, researcher and scholar, and now an administrator. Having completed B.E. (Electrical), MBA, PhD (Management) and a second PhD (Management, Behavioral and Social Sciences) in Universities across three continents, she has experienced and learned to work with educators and students from different cultures and different higher education systems. Teaching is her passion and so is research. She strives to contribute to quality in management education, and to improve upon the relevance of both teaching and research to society. She wish people are always fair and sincere at least in the noble field of imparting education and learning. She is a member of the Academy of Management, Academy of International Business and has conducted research and teaching at IIM Ahmedabad, CEPT University and reputed universities. Her research has been presented and published in international conferences and journals.

Dr. Sarika Srivastava
Assistant Professor, Gujarat Technological University.

Dr. Sarika Srivastava is currently working as an Assistant Professor at Centre for Global Business Studies, Gujarat Technological University- Ahmedabad. She has completed her MBA in Information Technology and Finance with distinction and Ph.D. in the area of ‘Behavioral Finance’ from Banasthali University, Rajasthan. She has qualified National Eligibility Test (NET) with 74% conducted by University Grant Commission-2012 and UP State Level Eligibility Test (UPSLET) -2004 in the subject Management.

She has published and presented more than 20 research papers in National and International Journals / Conferences. Her research paper was selected for best paper award in International Conference on ‘Gujarat Model of Governance’. She has attended and organized various Faculty Development Programs (FDP), workshops and seminars. She is dynamic and diligent professional with 10 years of industrial and teaching experience. At GTU, She is successfully handling the charge of Conference Section, managing Global Country Study Program (GCSR), coordinating meetings with foreign delegations and other activities for promoting CGBS. She is extensively interested in the research work along with administrative assignments. Her areas of interest include Financial Management, Strategic Financial Management, Economics for Managers, Cost Accounting and Investment Banking.

Dr. Kaushal A. Bhatt
Assistant Professor, Gujarat Technological University.

Dr. Kaushal Bhatt is an Assistant Professor, Faculty of Management, PG Research Centre for Global Business Studies at Gujarat Technological University. He has sound academic experience of 8 years at Post Graduate Level and 2 years of Industry experience at Managerial level. Dr. Bhatt has earned Doctorate of Philosophy and Master of Philosophy (University First) degrees from Department of Commerce and Business Administration, Saurashtra University. He has obtained two Master Degrees i.e. M.B.A. with Finance Specialization and M. Com. (Silver Medalist) with Advanced Management Accounting specialization. He has successfully undergone Faculty Development Program at IIM-K (Indian Institute

Gujarat Technological University - Graduate School of Smart Cities Development
Dr. Bhatt has participated in more than dozen of International and National Conferences and Seminars in India and abroad. He has published 21 Research Papers in referred Journals and 6 Research Papers in Conference Proceedings at National and International level at France, US, UK and India. He is recognized Ph. D. Supervisor in Faculty of Management at GTU and guiding research scholars for their doctoral work. He has two books on his name i.e. “Performance Evaluation of Commercial Banks through CAMEL Approach” and “Contemporary Issues in Accounting” which were published by an International Publication house in Germany. He is an eminent reviewer of “Emerald’s Managerial Finance” Journal, USA. He is also a member of editorial board of International Journal of Advanced Research in Management and Social Sciences, United Kingdom (UK), International Journal of Economics and Finance published by Canadian Center of Science and Education (CCSE) Canada, African Journal of Business Management, South Africa and Standard International Journal of India. He is life member of (AIMS) All India Management Scholar - International, USA, (FMA) Financial Management Association, University of South Florida, US, (IAA) Indian Accounting Association and (ICA) Indian Commerce Association, India. His area of interest includes Research Methodology, Financial and Management Accounting, Behavioral Finance, Banking & Insurance, International Business etc.

Mr. Mitesh Solanki  
Assistant Professor (CiC3), Gujarat Technological University.

Mr. Mitesh Solanki is young and enthusiastic personality presently working as an Assistant Professor in Community Innovation & Co-Creation Centre at Gujarat Technological University. He has done his Master of Engineering in Electronics & Communication specializes in Wireless Communication (WiMAX) from MEFGI Rajkot. He has total 1.5 years of teaching experience. He has published two IEEE Conference papers & one International Journal Research papers. He has organized and mentoring various workshops on open source development board. He is actively involved in various projects guidance activity of registered students at CiC3. He is currently working in SMART CITY Sensor lab development under Gujarat Technological University.

Mrs. Rutika P. Ghariya  
Assistant Professor (CiC3), Gujarat Technological University.

Mrs. Rutika P. Ghariya is currently working as an Assistant Professor at Community Innovation and Co-Creation Centre (CiC3), Gujarat technological University (GTU), Ahmedabad. She has completed her M.Tech with specialization in Electronics and Communication System from Dharmsinh Desai Institute of Technology, Nadiad. She has done her dissertation in Antenna Array Pattern Synthesis Using Novel Optimization Technique. Wherein she did her research on Side lobe level reduction and null steering of Linear and Planar array of Point sources using Particle Swarm Optimization Technique. She is associated with GTU since 29th June, 2015. Prior to joining GTU, She had worked for six month with Government Engineering College, Surat as a visiting lecturer and then after she had worked for six month with N.G.Patel Polytechnic, Bardoli.
At Community Innovation and Co-creation Centre (CiC3), she guides students in their research Projects. She conducts workshops and seminars on Antenna and Microwave related topics. She also mentors and coordinates workshops related to Multidisciplinary Sectors. Her current work is in analyzing different sensors and developing Smart City Laboratory and also her current research work is in advance engineering optimization using different intelligent techniques. She is highly interested in the field of Optimization and Antenna.

Mr. Hemal Nayak  
Assistant Professor (CiC3), Gujarat Technological University.

Mr. Hemal Nayak is young and enthusiastic personality presently working as an Assistant Professor in Community Innovation & Co-Creation Centre at Gujarat Technological University. He has done his M.E in Electronics & Communication specialization in VLSI & Embedded System Design from GTU P.G. School-Ahmadabad. He has total 2 years of teaching experience as well as 1.8 years of industrial experience. He has published one International & one National level Research papers. He has organized and mentoring various workshops on open source development boards. He is actively involved in project guidance activity of registered students at CiC3. He is currently working in SMART CITY Sensors lab development under Gujarat Technological University.

Ms. Darshana Chauhan  
Officer on Special Duty, Gujarat Technological University.

Ms. Darshana Chauhan is having a B.Sc- Chemistry, Master of Computer Application (M.C.M) from Pune University, Master of Business Administration in Human Resource (MBA-HR) from IGNOU, She has worked with Diversified organization like ATUL Limited (Atul, At Valsad) as an Assistant Manager in Information Systems and Training and Placement with Engineering Colleges at Pune. Then joined Gujarat Technological University (GTU) as an Officer on Special Duty. Currently Ms. Darshana Chauhan is looking after Master Engineering Program with Collaborating CDAC, e-Library, Vishwakarma Yojana.

Mr. Vimal Sharma  
Research Associate, Gujarat Technological University.

Vimal Sharma is a Civil Engineer, graduated from L. D. College of Engineering Ahmedabad and has M.Tech in Infrastructure Engineering and Management from CEPT University. He has worked on sustainable urban transportation project for the city of Rajkot. He has also worked on Performance Assessment project in water & sanitation for 167 cities of Gujarat. Currently he is working as Research Associate at Gujarat Technological University (GTU). At GTU he is involved in the activities of Graduate School of Smart Cities Development, Research and Consultancy Services Cell and PG Research Center for Infrastructure, Transportation and Water management.
## Annexure 2: Registered Delegates of GTU Research Partners

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name</th>
<th>Designation</th>
<th>Institute</th>
<th>City</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Prof. Vijaykumar B. Gadhavi</td>
<td>Assistant Professor</td>
<td>SAL Institute of Technology and Engineering Research</td>
<td>Ahmedabad</td>
<td><a href="mailto:vijaybgadhavi@gmail.com">vijaybgadhavi@gmail.com</a></td>
</tr>
<tr>
<td>2</td>
<td>Mr. Utsav Jain</td>
<td>7th semester Student</td>
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<td>Ahmedabad</td>
<td><a href="mailto:utsavjain1408@gmail.com">utsavjain1408@gmail.com</a></td>
</tr>
<tr>
<td>3</td>
<td>Prof. Jayesh Juremalani</td>
<td>Assistant Professor</td>
<td>Parul Institute of Engineering &amp; Technology (DS)</td>
<td>Vadodara.</td>
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</tr>
<tr>
<td>4</td>
<td>Dr. Khadeeja Priyan</td>
<td>Prof. &amp; Head</td>
<td>G H Patel college of Engineering &amp; Technology</td>
<td>Vallabhbh Vidyanagar</td>
<td><a href="mailto:khadeejapriyan@gcet.ac.in">khadeejapriyan@gcet.ac.in</a></td>
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<tr>
<td>5</td>
<td>Dr. Bhasker Thakkar</td>
<td>Professor &amp; Head</td>
<td>G H Patel college of Engineering &amp; Technology</td>
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<td><a href="mailto:bhaskarthakkar@gcet.ac.in">bhaskarthakkar@gcet.ac.in</a></td>
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<tr>
<td>6</td>
<td>Dr. M.D. Joshi</td>
<td>Campus director</td>
<td>SLTIET</td>
<td>Rajkot</td>
<td><a href="mailto:campusdirector@ltiet.com">campusdirector@ltiet.com</a></td>
</tr>
<tr>
<td>7</td>
<td>Dr. B.M. Ramani</td>
<td>Professor &amp; Principal</td>
<td>SLTIET</td>
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<td>8</td>
<td>Mr. Sheetal Kumar D Kunvar</td>
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<tr>
<td>9</td>
<td>Dr. J.N. Shah</td>
<td>Director</td>
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<td>10</td>
<td>Dr. Ashish M. Kothari</td>
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<td>11</td>
<td>Prof. M. A. Lakhwani</td>
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<td>12</td>
<td>Prof. Aplesh S. Dafda</td>
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<td>13</td>
<td>Prof. Uttam G. Chauhan</td>
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<td>14</td>
<td>Prof. Digant Anilkumar Pastagia</td>
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<td>Surat</td>
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<td>Prof. Avinash Premjibhai Satashia</td>
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<td>16</td>
<td>Prof. Sapna Jayeshbhai Shah</td>
<td>Adhoc Assistant Professor</td>
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<td>17</td>
<td>Ms. Viraj Parekh</td>
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<td><a href="mailto:virajparekh.cl@socet.edu.in">virajparekh.cl@socet.edu.in</a></td>
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<td>18</td>
<td>Ms. Tejal Raval</td>
<td>Lecturer</td>
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<td><a href="mailto:tejal.lit@lvs.co.in">tejal.lit@lvs.co.in</a></td>
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<td>19</td>
<td>Prof. Krishna Kshatriy</td>
<td>HOD</td>
<td>Amiraj College of Engineering &amp; Technology</td>
<td>Gandhinagar</td>
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<td>20</td>
<td>Maharshi Vyas</td>
<td>7th Sem student</td>
<td>Amiraj College of Engineering &amp; Technology</td>
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<td>21</td>
<td>Deepanjali Patil</td>
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<td>Prof. (Dr) Riddhi Dave</td>
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<td>Prof Yash Bhatt</td>
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<td>Faculty</td>
<td>LD College of Engineering</td>
<td>Ahmedabad</td>
<td><a href="mailto:pjgundaliya@gmail.com">pjgundaliya@gmail.com</a></td>
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