

Résumé

Present Position:

Associate Professor in K J Somaiya College of Engineering, Department of Information Technology (Information Security Specialization)

Ph. D. (Science and Technology, Electronics Engineering)

VJTI, Affiliated to University of Mumbai
Awarded in 2018

Master of Engineering (Computer Engineering)

Thadomal Shahani Engineering College, Mumbai
University of Mumbai
Passed in 2007 with First class

Bachelor of Engineering (Electronics Engineering)

PVPIT College of Engineering, Sangli
Shivaji University
Passed in 1998 with First class

Certifications

- RAD websphere 7.0 Certified from IBM in 2010 (Secured 74 %)
- Advance Certificate in Software Engineer. From IBM passed in 2001 (Secured 75%).

Professional Experience

- Currently working as Associate Professor from January 1, 2009 to till date, Department of Information Technology, K.J. Somaiya College of Engineering
(CONCOL/SA/730/2011)
- Worked as Assistant Professor form August 8, 2001to December 31, 2008, Department of Information Technology, K.J. Somaiya College of Engineering
(CONCOL/SA/2127)

(Total Experience in Teaching: 18 years and 8 months from August 2001 - till date)

Academic Activities:

Courses conducted:

- **Under Graduate :** Artificial Intelligence, Big Data Analysis, Cloud Computing

Description: The product proposed is an end to end solution for monitoring physical parameters of grains stocked in the warehouse of NBHCL.

- **Post Graduate:** Virtualization and cloud computing, Application and Web security, Modeling and Analysis of security protocol, Ethical Hacking and Defense mechanism.
- **Add On Credit and Audit Courses:** Practical Approach for Deep learning using Tensorflow , Hands on Introduction to Ethical Hacking ,Practical Approach for Machine Learning with R

Laboratory Development:

Developed Lab for MTech Course, Ethical Hacking and Defense Mechanism

Publications:-

International Journals: 17
(List Attached Separately)

International Conferences: 28

Project Guidance:

Post Graduate students guided

Degree Awarded 07
In process 01

INDUSTRY/GOVERNMENT INTERACTION AND ONGOING PROJECT

- ✓ **Landscape Analysis for Online Child Trafficking and Online Child Sexual Exploitation (Ongoing)**
 - **Contributing Organization:** K.J.Somaiya College of Engineering (KJSCE), Cyber Peace Foundation (CPF)
 - **Project by: Children’s Investment Fund and Foundation (CIFF)**
 - **Role:** Principal Investigator
 - A system that autonomously search child abusive hidden web communities, find out their web statistics and the child information.

Along with the central mechanism that reports to the government agencies that can take legal action.

- ✓ **Deep Learning Based Grain Quality Assessor (Ongoing)**
 - **Contributing Organization:** K.J.Somaiya College of Engineering (KJSCE)
 - **Project by:** National Bulk Handling Corporation Pvt. Ltd. (NBHC), Mumbai
 - **Role:** Principal Investigator
 - The problem statement is finding out the percentage of physical parameters such as Broken, Discoloured, damaged etc. using Image analysis of commodities like Wheat, Paddy, and Rice etc.

- ✓ **Cyber Security Preparedness Survey of Power Systems (Completed in year 2014-15):**
 - **Associated Organizations:** Veermata Jijabai Technological Institute (VJTI), India Smart Grid Forum (ISGF), National Critical Information Infrastructure Protection Centre (NCIIPC)
 - **Role:** Research scholar
 - **Description:** A rigorous survey involving all carder (Managerial to Operation Engineers) and more than 200 questions. The objective of exercise was to understand how critical Infrastructure sector (Power Systems) prepared in terms of cyber security threats.

- ✓ **HACKATHON at ISGW 2016 (Completed):**
 - **Associated Organizations:** Veermata Jijabai Technological Institute (VJTI), India Smart Grid Forum (ISGF) in partnership with National Critical Information Infrastructure Protection Center (NCIIPC), and Tata Power Delhi Distribution Limited (TPDDL)
 - **Role:** Research scholar
 - **Description:** Designed, prepared and tested set up for the challenge. The challenge was to ‘Capture The Flag (CTF)’ which involves participants to hack into a SCADA system, toggle a switch and safely exit the cyber space of the system without being detected. Winner had an award of INR 1,00,000/- and Certificate for Championing the Event.

- ✓ **Cyber Security Studies Related to SCA Evolution:**
 - **Contributing Organization:** Veermata Jijabai Technological Institute (VJTI)

- **Project by:** ABB GISPL GLOBAL INDUSTRIES AND SERVICES Private Limited.
 - **Role:** Research scholar
 - **Description:** Objectives of the Project
 - Research, explore and prototype using alternatives to OpenSSL in SCA (Ex. Network Security Services[NSS])
 - Research and prototype advanced TLS procedures (Ex. Re-negotiation)
 - Add support for Crypto Hardware in SCA.
- ✓ **IRNSS GPS based Platform for Power Grid Wide Area Monitoring :**
- **Contributing Organization:** Veermata Jijabai Technological Institute (VJTI)
 - **Role:** Research scholar
 - **Description:** Proposal aims at development of IRNSS based applications for Indian power grid wide area measurement system. Indigenization of such a system with IRNSS platform shall be crucial for securing critical infrastructure like power grid. Further, solutions obtained for GPS spoofing in power grid can be applied to other ecosystems employing GPS for navigation and precise time stamp applications.

In-house Projects:

- ✓ **Dream Admission (Completed):**
- **Project by:** <Accepted>infotech and K J Somaiya College of Engineering
 - **Role:** Project Initiator and Mentor
 - **Description:** “Dream Admission”, an Android App, is a one stop platform for all information related to First year Engineering admission. This Android application has sections which direct the aspirant to official college sites, official DTE websites, official DTE pages, DTE regional offices, and also gives information about Locations and Phone number of Admission Resource Centers.
- ✓ **Installation and Configuration of D-Space (Completed):**
- **Project by:** Library, K J Somaiya College of Engineering
 - **Role:** Mentor

- **Description:** DSpace is an open source repository software package typically used for creating open access repositories for scholarly and/or published digital content.

✓ **Green IT (Completed):**

- **Project by:** K J Somaiya College of Engineering
- **Fund:** Rs. 17,000/-
- **Role:** Principal Investigator
- **Description:** Project is an effort to estimate the power consumption of IT infrastructure within college campus and develop software that will make a greener IT Infrastructure.

✓ **Message Center (Completed):**

- **Project by:** K J Somaiya College of Engineering
- **Fund:** Consumables paid
- **Role:** Project Initiator and Mentor
- **Description:** Message center is an application developed to broadcast messages via SMS for utilities as defaulter notices for student, staff notices etc.

Research Proposal:

Sr. No	Title	Agency	Status of work	Period in yrs.	Grant / Amount Mobilized
1.	IoT Based Crowd Analytics and Management at Railway Foot-over Bridge	Mumbai University and KJSCE	Accepted in AY 2019-20	1 year	Rs. 40,000/-
2.	Development of Prototype of Indigenous automated radioactive Medicine Dispenser	Mumbai University and KJSCE	Completed in AY 2019	1 year	Rs. 25,000/-
3.	Implementation of IoT system for regularization of water supply through water tank vehicles	Mumbai University and KJSCE	Completed in AY 2019	1 year	Rs. 45,000/-
4.	Black Button: Pollution Data provider	Mumbai University and KJSCE	Completed in AY 2017	1 year	Rs. 35,000/-

Awards and Recognitions

Sr. No	Project Title & Institute	Organizing Agency	Year	Amount	Role	Result
1	Energy trading using Blockchain VJTI	West Bengal Govt.	2018	5,00,000/-	Mentor (Research Scholar)	1st Prize
2.	FaSHION- Farmers' Smart Help and Instrument of Naaptol K J Somaiya College Engineering	Smart India Hackathon DST	2018	50,000/-	Mentor (Faculty)	1st Runner up
3.	DiWAM – Digital WQM, Assessment and Monitoring K J Somaiya College Engineering.	Smart India Hackathon DST	2017	1,00,000/-	Mentor (Faculty)	1st Prize
4	IoT based Harmonic Measurement, Analysis and Prediction for Microgrids. VJTI, Mumbai.	Smart India Hackathon DST	2017	75,000/-	Mentor (Research Scholar)	1st Runner up
5.	ICS Watch Dog, VJTI, Mumbai.	India Smart Grid Week Appathon	2017	1,00,000/-	Mentor (Research Scholar)	1st Prize

Expert Lectures/Seminar Delivered:

Sr. No.	Details of Program / Your Role	Date	Organized by
1	Invited Panel Member for Role of e-Yantra Labs in Industry/Academia interaction at eYIC 2019-20 regional final	28 th February, 2020	e-Yantra, hosted at KJSCE
2	Invited Panel Member for the eRaksha - stakeholders consultation on Cybercrime against children	11 th February, 2020	Cyber Peace Foundation in collaboration with UNICEF, Delhi
3	Workshop on AI in Security	28 th January , 2020	Network Intelligence Pvt. Ltd, Andheri, Mumbai
4	Invited Panel Member for 4th National Cyber Psychology Conference 2020	23 rd January, 2020	Responsible netism, Pune
5	Speaker for topic “Introduction to Critical Infrastructure Setup”	2 nd January, 2020	AICTE and ISTE approved STTP on “ Industrial IoT System Design from Sensing to Mitigation”, KJSCE
6	Speaker for topic “ Artificial Intelligence”	27 th December, 2019	AICTE and ISTE approved STTP on “Emerging Trends in the field of Mechatronics”, KJSCE
7	Hands on session on “Chatbot application with RNN in Tensorflow”	21 st December, 2019	TEQIP sponsored one week FDP on “Deep Learning Theory & Applications for Engineers”, VJTI, Mumbai
8	Hands on session on Scada/ICS security	20 th September, 2019	COE-CNDS Lab, VJTI, Mumbai
9	Hands on session on Introduction to Raspberry PI, IoT protocol for communication, Application for Machine learning on IoT	25 th June, 2019	STTP on “ IOT with Data Science” , Fr. C. Rodrigues Institute of Technology

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10	Hands on session on IoT Analytic with Cloud Data	14 th June, 2019	AICTE and ISTE approved STTP on “ Industrial IoT System Design from Sensing to Mitigation”, KJSCE
11	Hands on session on MQTT Protocol	11 th June ,2019	Refresher Course for the college and University Teachers, Mulund College of Commerce, Mumbai
12	Speaker for topic ‘Online Security’ at Boost with Facebook	10 th June ,2019	Facebook, World Trade Center
13	Speaker	29 th march, 2019	Programming Fiesta on the topic "Disruptive Technologies in Governance & Cyber Security"
14	Speaker, HACK-IoT	2 nd November, 2018	BloomBox, Entrepreneurship Cell KJSCE
15	Project Presentation at COE-CNDS, VJTI on Cyber Security	1 st November, 2018	VJTI, Mumabi
16	Speaker, Facebook DevC Technology Meetup	28 th August, 2018	Facebook Mumbai Circle, at Don Bosco Institute of Technology, Mumbai
17	Hands on session on Tensorflow	1 st July, 2018	AICTE and ISTE approved STTP on “Machine Learning With Tensorflow” in Vidyavardhini’s COE, Vasai
18	Hands-on Session PenTesting Cloud Application (AWS) using BURP	12 th June ,2018	AICTE-ISTE SPONSORED Induction/ Refresher Programme on Cloud Computing and Security, KJSCE
19	Session at F8: Facebook's Annual Developer Conference	2 nd May, 2018	Facebook Mumbai Circle, at KJSCE

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20	Project Presentation at BSNL for Start-Up funding	9 th March, 2018	BSNL, Mumbai
21	Session on “Computer Security & Ethical Hacking”	10 th February, 2018	Vidyalankar Polytechnic, Mumbai
22	Online Lecture delivered in Energy Innovation and New Technologies for Smart Grid	25 th November, 2017	SmartGrid Mexico, Mexico City
23	Delivered a lecture on “IoT Data Perspective”	29 th September, 2017	AICTE and ISTE approved STTP on “Internet of Things and Its Applications” in M.H. Saboo Siddiqui Polytechnic, Mumbai
24	Delivered a lecture on “R for Bioinformatics” ISTE approved STTP on “Bioinformatics: Emerging Research Trends and Applications”	28 th June , 2017	K. J. Somaiya College of Engineering
25	Conducted Hands on session on ICS Communication Protocols & Vulnerability Analysis	23 rd June , 2017	VJTI, Mumbai
26	Delivered a lecture on “Cyber-Physical Security”, in ISTE approved STTP on “Digital Security”	30 th June, 2016	K. J. Somaiya College of Engineering, Vidyavihar, Mumbai
27	Delivered a lecture on “R for IoT”, in ISTE approved STTP on “Internet of Things”	8 th January, 2016	K. J. Somaiya College of Engineering, Vidyavihar, Mumbai
28	Delivered a Seminar on ‘Machine Learning & Advanced Application of Artificial Intelligence’	9 th October, 2012	Don Bosco Institute of Technology, Mumbai
29	Delivered a Seminar on “Basics of Android Programming” in ISTE approved STTP on Wireless Communication and Mobile Technology	January 2012	Shah & Anchor Kutchhi Engineering College, Mumbai

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30	Delivered a Seminar on “Service Oriented Architecture” in ISTE approved STTP on ITME	January 2010	Don Bosco Institute of Technology, Mumbai
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Participation at University/ other Institution level:

Sr. No.	Details of Program / Your Role	Date	Organized by
1	Member of Board of Studies in the subject of Information Technology under Somaiya Vidyavihar University, Mumbai	From AY 2019-20	S.K.Somaiya College of Arts,Science and Commerce, Vidyavihar,Mumbai
2	Member of Department advisory board for Computer Engineering Department	From AY 2018-19	Shah and Anchor Kutchhi Engineering College
3	Reviewer for The first International Conference on Automation, Computing and Communication (ICACC 2020)	April 3-4, 2020	Ramrao Adik Institute of Technology (RAIT), navi Mumbai, India
4	Reviewer for The Fifth International Conference on Electrical, Electronics, Computer Engineering and their Applications (EECEA2020)	April 1-3, 2020	University of Perpetual Help System DALTA, Las Piñas, Manila, Philippines
5	Reviewer for The Eighth International Conference on Digital Information Processing and Communications (ICDIPC)	March 26-28, 2020	Avrasya University, Trabzon, Turkey, (IEEE Turkey section)
6	Judge for Technical Paper presentation competition	March 16, 2020	CSI, Department of Computer Engineering, Fr. C. Rodrigues Institute of Technology, Vashi
7	Technical Judge for CCTNS Hackathon and Cyber Challenge 2020	March 8-9 2020	NCRB and Cyber Peace foundation, Delhi
8	Technical Judge for the final round of 24 hour overnight Smart India Hackathon (SIH Internal Round)	January 29 th – 30 th , 2020	K. J. Somaiya College of Engineering
9	Reviewer for Seventh International Conference on Transformations in Engineering Education,	January 5 - 8, 2020	Indo Universal Collaboration for Engineering Education,

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	ICTIEE 2020		Hyderabad
10	Reviewer for Industrial Engineering Journal (IE Journal)	December, 2019	Indian Institution of Industrial Engineering, Mumbai, India
11	Reviewer for IEEE International Conference on Advances in Computing, Communication and Control (ICAC3'19) 6th Edition	December 20-21, 2019	Fr. Conceicao Rodrigues College of Engineering, Bandra, Mumbai
12	Reviewer for The Sixth International Conference on Cyber Security, Cyber Welfare and Digital Forensic (CyberSec2019)	December 12-13, 2019	Marrakech, Morocco
13	Reviewer for The Fifth International Conference on Information Security and Digital Forensics, ISDF2019	Nov. 29-Dec.1, 2019	Metropolitan College, Thessaloniki, Greece
14	Reviewer for The 8th International Conference on E-Learning and E-Technologies in Education	Sept. 16-18, 2019	Lodz University of Technology, Lodz, Poland
15	Reviewer for The Sixth International Conference on Artificial Intelligence and Pattern Recognition, AIPR2019	Sept. 16-18, 2019	Lodz University of Technology, Lodz, Poland
16	Reviewer for The 8th International Conference on Informatics and Applications ICIA2019	August 2-4, 2019	Takamatsu Sunport Hall Building, Japan
17	Reviewer for The Fifth International Conference on Electronics and Software Science ICESS2019	August 2-4, 2019	Takamatsu Sunport Hall Building, Japan
18	Reviewer for Seventh International Conference on Digital Information Processing and Communications (ICDIPC)	April, 2019	Avrasya University, Trabzon, Turkey (IEEE Turkey section)
19	Reviewer for 9th International Conference on Digital Information and Communication Technology and its Applications (DICTAP2019)	March, 2019,	Faculty of Engineering, Lebanese University, Campus of Hadath, Beirut, Lebanon
20	Reviewer	From March 2019	International Journal of Cyber-Security and Digital Forensics (IJCSDF)
21	Reviewer	From March 2019	International Journal of E-Learning and Educational Technologies in the Digital Media (IJEETDM)

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22	Technical Judge for the final round of 24 hour overnight hackathon – Hackit , TechNext	3 rd February , 2019	CSI-KJSCE
23	Technical Judge for the final round of Global Blockchain Hackathon	22 nd December, 2018	BloomBox, Entrepreneurship Cell KJSCE
24	Technical Judge for the final round of HACK-IoT	5 th November, 2018	BloomBox, Entrepreneurship Cell KJSCE
25	Jury member for VCET- HACKATHON 2018	5 th October, 2018	Vidyavardhini’s COE, Vasai
26	Reviewer for AP International Conference on Transformations in Engineering Education 2018	15-17 th July, 2018	Indo-Universal Collaboration for Engineering Education (IUCEE)
27	Technical judge for project exhibition cum evaluation of final year students	12 th April, 2018	UMIT, SNDTWU
28	Technical judge for technical debut of pre-event of CSI-Mumbai TechNext India 2018 on	3 rd February, 2018	Shah and Anchor Kutchhi Engineering College
29	Reviewer for Fifth International Conference on Transformations in Engineering Education (ICTIEE’18)	8-9 th January, 2018	Indo-Universal Collaboration for Engineering Education (IUCEE)
30	Reviewer for IEEE ICCUBEAU 2017	17-18 th August , 2017	Pimpri Chinchwad College of Engineering (PCCOE)
31	Published News article Series in Regional Newspaper	2014	Regional Newspaper – “Sakal”
32	Reviewer for book titled “Software Quality Models and Project Management in a Nutshell” First Edition	June, 2010	Author – Shailesh Mehta Publisher – Shroff Publishers and Distributors Pvt. Ltd.

Short term training programmes / Conferences organized

Sr. No.	Title	Organizing body	Year	Role
1.	24 hour overnight Smart India Hackathon (SIH Internal Round)	KJSCE	29 th – 30 th January ,2020	Convener

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2.	AICTE and ISTE approved STTP on “ Industrial IoT System Design from Sensing to Mitigation”	KJSCE	30 th December , 2019 – 4 th January, 2020	Convener
3.	Global Contribution Sprint	ERPNext Foundation and K.J. Somaiya College of Engineering	24-25 th October, 2018	Coordinator
4.	IBM RAD Certification Workshop	IBM and K J Somaiya College of Engineering	February, 2010	Coordinator
5.	National Conference on ‘Emerging Trends in Computers, Communication & Information Technology’	K J Somaiya College of Engineering	20-21 th March, 2009	Member

Short Term Training / Workshops attended

Sr. No	Title	Duration	Organization
1.	Industry-Academia Technical Seminar on Embedded Software safety & Security	27 th March, 2019	LDRA, Pune
2.	Indian Cyber Congress	29 th September, 2018	National Cyber Safety and Security Standards
3.	Faculty Development Program on “Cyber Security”	28 th September, 2018	National Cyber Safety and Security Standards
4.	Short Term Training Programme (STTP) on Renewable Energy an Ancillary Services’	December 2016	VJTI, Mumbai

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5.	Seminar on Emerging Trends & Real Time Simulation of electrical N/W for Smart Grid	October 2016	Central Power Research institute ,Bengaluru
6.	Workshop on ‘NBA Outcome Based Accreditation’	7 th and 25-27 th June, 2014	KJSCE and NBA Nodal Centre
7.	Faculty Development Program on TOGAF Foundation (Level 1) and TOGAF Level 2	January 2014	CSI Mumbai Chapter., Mumbai
8.	Workshop on ‘Aakash for education’	10-11 th November, 2012	KJSCE Remote Centre and IIT Bombay
9.	Workshop on “Artificial Intelligence – Human Computer Interaction”	October 2011	Mukesh Patel School of Technology Management and Engineering
10.	Workshop On wired and Wireless Devices	October 2008	D Y Patil College, Pune
11.	Faculty Development programme on ‘Project Management’	16-18 th January, 2008	Tata Consultancy Services, Mumbai
12.	Software Engineering – A Basic Approach	December 2007	CSI Mumbai Chapter., Mumbai

Recognition from External bodies

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Sr. No.	Recognition	Title	Awarding body	Year
1.	Teacher of the University for M.E. Degree in Computer Engineering	M.Tech/M.E. Teacher	University of Mumbai	November 2012
2.	Teacher of the University for M.E. Degree in Information Technology	M.Tech/M.E. Teacher	University of Mumbai	March 2015

Membership of professional committees / bodies

Sr. No.	Title	Awarding body/organizing body	Year
1.	Life member (Number LM32306)	Indian Society for Technical Education (ISTE)	2001

Letters of appreciation

Sr. No.	Event / Activity	Issued by	Year
1.	Appreciation for Admission work	Director, K.J.Somaiya College of Engineering	September, 2004
2.	Appreciation for Accreditation work	Principal, K.J.Somaiya College of Engineering	March, 2003

Administrative Roles and Responsibilities:

Sr. No.	Type of responsibility in College administration	As member/ Convener	Year
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1.	Head of Department, Information technology	HoD	February 2019 – Till Date
2.	App Manager for Google Play Store	In-Charge	February 2018 – Till Date
3.	Faculty Advisor for Robocon	Faculty Advisor	February 2019 – Till Date
4.	Faculty Development Committee	Convener	August 2015 – August 2019
5.	Institute level Write-Off Committee	Member	March 2012 – October 2019
6.	Institute level Library committee	Member	August 2018 – Till Date
7.	Data Centre	In-Charge	Dec 2013- August 2014
8.	Institute level Examination Committee	Convener	November 2013 – August 2014
9.	Associate Head, Department of Information Technology	Associate Head	July 2009 - November 2013
10.	NBA Coordinator	In-Charge	July 2013
11.	KJSCE CSI Students Chapter	Faculty Advisor	2008-2013
12.	Test Center Administrator for AIEEE exam conduction in coordination with TCS	In-Charge	May 2012
13.	Application Receiving Center (ARC) for First Year Engineering Admission	In-Charge	June 2010
14.	Application Receiving Center (ARC) for First Year Engineering Admission	Member	June 2009
15.	FY Admissions	In-Charge	June 2004
16.	Departmental Subject Board	Member	2013-2017

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17.	Departmental Examination Committee	Member	2017- Till Date
18.	Departmental Purchase Committee	Member	2013-till Date
19.	Departmental Research and Development Committee	Member	2013-2017
20.	Departmental Advisory Committee for Curriculum Development	Member	2013- till Date
21.	Lab In- Charge for Project Lab	Lab In- charge	2008 – Till Date

Personal Details:-

Name - *Irfan A. Siddavatam.*
Date of Birth - *7th March 1976*
Marital Status - *Male / Married*
Nationality - *Indian*
Languages known - *English, Hindi, and Marathi.*
Address - *F.No. – 1002, Progressive’s Crown CHS,
Sector –11, KoperKhairane, Navi-Mumbai- 400709.*
Mobile - *(+91) 9833484317*
Email - irfansiddavatam@somaiya.edu / irfanasv@gmail.com

I hereby declare that the information furnished above is true to the best of my knowledge.
Thanking you.

Yours Sincerely,

(Dr. Irfan A Siddavatam)