First CSI Rajasthan State IT Convention and   National Conference on Better Life in Rural Communities with ICTs

Report by: Dr. Dharm Singh, Honorary Secretary, Udaipur and Convener SIG WNs

(May 17-19, 2011)

Inaugural Session: (L to R) Dr. Dharm Singh, Dr. ML Kalara, Ms. Deepika Pokharna, Mr. Manoj Agarwal, Mr, RN Mathur, Dr. RC Purohit, Dr. SS Rathore, Dr. RS Shekhawat, Dr. YC Bhatt

A three days First CSI Rajasthan State IT Convention and   National Conference with Celebration of World Telecommunication and Information Society Day 2011 on "WTISD 2011: Better life in rural communities with ICTs" during May 17-19, 2011 organised by Computer Society of India:: Udaipur Chapter, SIG-WNs, SIG-e-Agriculture, The Institution of Engineers (India), ULC, Sunrise Group of Institutions, Udaipur, Department of Computer Science and Engineering, College of Technology and Engineering, Udaipur at SIGs Campus Udaipur, India.

Inaugural Session

This conference has started on May 17, 2011 with the inaugural session at 6:30 P.M. Prof. ML Kalara former vice-chancellor Kota University and Managing Director SGIs welcomed the august gathering.

Dr. Dharm Singh, Organizing Secretary gave detail information about the events. He said this 3 days event was planned with an objective to exchange and stimulate brain- storming discussions on wide range of topics related to the Better life in rural communities with ICTs research domain.

The Chief Guest, Mr. Manoj Agarwal, former chairman CSI Udaipur chapter and MD e-connect Solution Pvt. Ltd., Udaipur while inaugurating the event, said that with the existing new technologies and innovations emerging every other day, the information and communication technologies (ICTs) was an increasingly interesting platform not just for

developers, but also for common people. Chief Mr. Manoj Agarwal also released a book (print and digital version) on event theme titled "Rural Development with ICTs" edited by Dr. Dharm Singh.

Participants during the Inaugural Session

The Guest of honor Mr. RN Mathur, GMTD, Udaipur gave the importance of National Knowledge Network connectivity and said the all University is going to be connect 1GBPs broadband connectivity. They can be share the resources and also access the online resources. Dr. S.S Rathore Chairman, IE(I),ULC shared his views about the importance joint activities of IEI and CSI.

Dr. RC Purohit, Dean College of Technology and Engineering spoke about the importance of ICTs in agriculture domain and he said the advance IT technologies will improve the rural network connectivity. Dr. Rajveer Singh Shekhawat, Chairman CSI Udaipur spoke during the course of last 44 years, CSI has conducted a large number of Conferences/workshops at different levels for the benefit of researchers, academician and industrialists.

IT Proliferation in rural India

Keynote speaker Ms. Deepika Pokharna, DGM, BSNL, Udaipur presented about the ICTs application in Education, Agriculture and Healthcare. She also spoke one of India 's largest telecom companies, BSNL, and HCL Infosystems, one of India's premier information enabling ICT System Integration companies announced that they will be working together on the National Broadband Penetration Program (NBPP), a nationwide initiative to accelerate IT proliferation in rural India. The project aims to accelerate PC and broadband penetration by offering a complete solution and to create new markets in the interiors of the country.

Contribution of Wireless Networks

Amit Sanghi and Rakesh Poononia, faculty from Engineering College Bikaner delivered their lecturers about rural connectivity and spoke we should develop and evaluate a real wireless

ad hoc network with address and route auto configuration, and partial QoS support. The network developed should be easy to deploy and be able to switch voice and data traffic taking into account the quality of service required for each differentiated service. The wired and wireless network must be deployable in rural areas for giving access to the Internet and the telephonic network.

Invited Speaker Sessions

Prof. BP Sharma Pro Vice-chancellor told the lots of work on ICTs is going on in India and Chaina. According to him, internet plays a vital role for knowledge base.

Prof. BP Sharma   *Dr. KC Lachhwani*

Dr. Kailash Chandra Lachhwani, OSD IIM Udaipur spoke about the Impact on Indian Technical Education System in Globalized Environment.

Security Vulnerabilities

Dr. Dharm Singh, Convener SIG-WNs highlighted various use of ICTs and related e-applications which are key instruments in improving governance and rural services, such as providing community health care, safe drinking water and sanitation, education, food and shelter; improving maternal health and reducing child mortality; empowering women and the more vulnerable members of society; and ensuring environmental sustainability. Kiosks which on one side can provide various amenities to the rural people on the other hand can

become a tool for their serious troubles. They require security at every level. There are many redefined levels of risk associated with web app vulnerabilities. We should employ various security measures to prevent malicious use of important information which is available in bulk at such places. Moreover, the rural people, most importantly the kiosk operators should be made aware of the emerging risks and should be trained to counterfeit them.

Prof. BP Sharma, Prof. ML Kalara, Mr. Harish Rajani (Front: L to R) attending the technical Session

Mr. ML Talesra, Vice President CSI presented his invited talk on better life in rural communities with ICTs. He said diverse set of technologies tools and resources used to communicate, and to create, disseminate, store and manage information. These technologies include computers, the Internet, broadcasting technologies (radio and television), and telephony.

Mr. ML Talesra delivering a keynote address

Empowerment of Rural Women through ICT

Dr. Pooam Dhaka, College of Home Science, MPUAT, Udaipur stated that the ICTs do play an important role in disseminating a wide range of information and advice leading to knowledge and attitude change among rural communities. It is also supporting rural

communities to acquire new skills and is also creating new employment opportunities. However, the continuing digital divide between urban and rural areas and between men and women currently constrain the realization of the full potential of ICTs in reaching rural women.

Industry Session

Mr. SM Oswal, DET Internal BSNL, Udaipur demonstrated about the latest instruments used in rural exchange and urban exchange for network connectivity.

Industrial Visit: BSNL, Rural exchange, Udaipur

Technical Sessions

The conference was concluded with various technical papers on Contribution of MaNet QoS, In Improving Rural Community Life, and Detecting Malicious Nodes for MANET using Monitor node, ICT IN Education: An Expertise towards Quality Teaching, Rural Communities with ICTs, Security Vulnerabilities in Rural Kiosks, ICT Based e-Education in Rural India, Insider Threat: A Potential Challenges for the Information Security Domain, Implementation of Wireless Technology for Education in Rural Area, Empowerment of Rural Women through ICT, Conception and Planning of Agricultural e-Commerce, ICT's New Network Hub for Village,Wireless Ad-Hoc Sensor Networks in Rural Areas and IT for Indian Rural Women, etc.,.

Valedictory Session

The valedictory function of the convention and conference began with the welcome address by Dr. ML Kalara. Prof. VK Srivastava, Director Planning and Monitoring and Resident Instruction, chief guest of the valedictory session addressed the guests and participants. Dr. Arvind, Director of Arawali Group of Hospitals, Udaipur said that we have developed a pathology ICT enabled lab and slides from Udaipur labs can be viewed at Shgwada and other places using developed software. Guest of honour Shri B.P. Somani, MD, Wonder Cement presented details of ICTs Infrastructure facilities available at cement Industries. The Organising Secretary Dr. Dharm Singh explained the objective of the convention and conference. Papers on various sub-themes were presented and discussed during technical sessions. Dr. Y.C. Bhatt, Honorary Secretary, IEI, Udaipur Local centre delivered vote of thanks.

Recommendations that emerged included:

1. A framework needs to be developed to bring ICT at the doorsteps of the poor to make it the tools for agriculture, education and employment generation improving the Better life in rural communities.

2. The Government should adopt ICT in a better way to make the society to be more prosperous and provide dependable, maintainable and cost effective technologies for rural connectivity and information processing solutions on subsidy rates.

3. Social networking and wireless networks technologies should be adopt for enhancing the connectivity between farming community.