Long-Range Wireless Radio Products

&

Solutions Presentation

Products & Solutions Overview

WISP India

MikroTik

WISP
Wireless Internet Solution Provider
www.wispindia.in

&

Presents

The Best Of
State-Of-The-Art
Computer, IT & Wireless Technology

Integrated
To
Create

Powerful

Wireless Communication & Networking Technology

* Internet Bandwidth Distribution
* Wi-Fi Campus
* Multi-Location Connectivity
* Voice & Video
* High Speeds At Long Distances

Smart Solutions

* Long Distance Wireless Point-to-Point & Multipoint Wireless Connectivity

* For Distances Up to 60Kms

* Innovative Applications

Point-to-Point/Multipoint Wireless Links

Comprising Of

* Point to Point Links – For Up To 70 Kms * Point-to-Multipoint Links
* Backbone + AP – High speeds at distant sites
* WDS - Roaming – Connecting Many Access Points
* Nstreme & Nstreme 2 – Offers Double The Speed – Up To 70 Kms @ 35Mbps

Technology At Its Best

Customized To Suit Your Specific Needs

The Solution & Technical Support Providers & Authorized Distributors MikroTik Radio Devices.

MikroTik Is the world's largest Long Range Point-to-Point & Point-to-Multipoint Wireless Radio (Onboard Mini-PCI Boards) and Onboard LAN cards Manufacturers Using Their Powerful MikroTik RouterOS Software.

Point-to-Point & Point-to-Multipoint

Wireless Data Communication Solutions Providers

Distributors for India for the most cost-effective fully Assembled, preconfigured and sealed MikroTik and Mini-MikroTik Radio Devices. Part of these device components are made, put together and sealed in India in their Hyderabad facilities. One of the biggest global exporters of MikroTik devices and components. Significantly, all the devices are of "License Free Dual Band" 2.4~5.8Ghz frequency.

* **Wireless media is used for LAN,MAN and limited WAN**

* **Wireless will provide the following features.**

* **Reliability**

* **Flexible**

* **Scalable**

* **Secure (128 WEP encryption)**

* **No right of way issues**

* **Cost Effective**

* **Easy manageability(Customer own network)**

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MikroTik
ROUTING THE WORLD
www.mikrotik.com

Who Use Mikrotik?

- Those Who Need To Distribute Internet Connectivity Wireless
- Those Who Need To Distribute Internet Connectivity in Remote Locations and or Rural Areas.
- Where Laying of Cables and Wires are proving to be expensive and need more robust and cost-effective solution to connect different sites / locations.

ISPs Use MikroTik Radio Devices To Offer Internet Connectivity To Their sub-ISPs and end-users

The Potential Markets

- ISPs – Internet Solution Providers.

- Bandwidth Resellers

- Multi-location Establishments Who Need To Different Locations and Share Data.

- Hotels – Who Need WiFi Connectivity For Their Clients – With HotSpot Solution – With or Without Billing Feature.

- Campus WiFi – Educational Institutions.

Why Mikrotik?

- Most Cost-effective solution
- High-speed wireless data links (Up to 108Mbps)
- Connection distance up to 70 km without repeater sites.
- IP - NAT, Routing, DHCP
- Security - Firewall, Secure Tunnels
- Control - Queues, Proxy, Accounting, Hotspot – All in One
- Fast and simple installation for base station and clients
- Reliable and instant 24 hour internet access

ISPs Use MikroTik Radio Devices To Offer Internet Connectivity To Their sub-ISPs and end-users

Long-Range Wireless Connectivity Applications & Solutions

High-speed wireless systems are used to provide internet access to end-users using point-to-point or point-to-multipoint architecture.

Wireless data links take place where there is no infrastructure for internet access or in places where bandwidth offered by current channels is too low. Being most cost-effective, many with location interests also opt for MikroTik offered wireless connectivity solutions.

You could get the most cost-effective Long Distance Very High Bandwidth solutions with MikroTik-WISP India wireless equipments.

Our equipments are features rich such as : Firewall, NAT, VPN, Bandwidth Management, QoS and many more. These just to name a few.

HotSpot Solution

Hotspot Features

* DHCP Server For Assigning IP Addresses
* Hotspot Welcome / Login Page
* Authentication And Accounting Locally, Or *
Using Any RADIUS Server Accounting By
  Traffic, Time
* Special MikroTik User Manager

Application

Typical applications include wireless access in Airports, Hotels, Hostels, Schools, Colleges, Universities, **Public Transportation Hubs (Airports, Road Transport & Railway Stations),** and other public places, as well as authenticated access to network resources in universities and schools. This is the most ideal for Paid Access to Authorized Users.

HotSpot can be used with:

• MikroTik's™ AP implementation
• A standalone AP connected by Ethernet
• Regular Ethernet clients

Hotspot Solution is built based on existing MikroTik RouterOS™ platform as additional feature. Can be used with all existing features.

MikroTik RouterOS™ V2.9 Hotspot Solution enables "**User Authentication**" and "**Accounting (Billing)**" in "*public*" or "*private*", "*wired*" or "*wireless*" networks.

Many Star Hotels Use HotSpot Billing Feature To Provide Paid Internet Access To Their Room Guests. Schools, Colleges and Universities use HotSpot Billing Solution to extend Paid Internet Access to their Hostel Inmates, Students.

Projects of WISP India

&

Valued Customers of WISP India

Our Strong Customer Base

* Educational Institutions

* Internet Service Providers – ISPs

* Banks, Financial Institutions, Stock Market Players

* Jewelers, Hospitals and Hotels

* Value Added Hardware Resellers

* Enterprise Customers

* Railways

* Government Organizations

* Public Sector Companies

* Dealers and Value Added Resellers

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➢India Network Solutions, New Delhi.

➢ICENet.net Limited, Baroda, Gujarat

➢World Phone Internet Services Pvt Ltd, New Delhi & Meerut, Uttar Pradesh

➢Micky Online, Moradabad, Uttar Pradesh

➢GL Networks & Systems Pvt Ltd, Jammu & Kashmir

➢Allert Security Systems, Kota, Rajasthan

➢Best Western Resort Country Club, New Delhi & Mannesar, Haryana

➢Welcome Network Solutions, Ghaziabad, Uttar Pradesh

➢SUN IT Solutions, Faridabad, Haryana

➢Global Internet Services, Faridabad, Haryana

➢Shivansh InfoTech, Meerut, Uttar Pradesh

➢Bhora Industries, Udaipur, Rajasthan

➢ CableNet Networks , Ujjain (MP)

- Krishna Maruti, Gurgaon, Haryana
- G L Networks, Muzafar Nagar, Uttar Pradesh
- SA Network, Hapur, Uttar Pradesh
- RCS Impex Pvt Ltd, Rudrapur, Uttranchal
- Pali Networks, Kanpur, Uttar Pradesh
- Gaddai Technologies, Gurgaon, Haryana
- ICN Networks, Gurgaon, Haryana
- Xtreme Networks, Hodal, Kosi & Mathura
- Vaishnav Infocom, Mathura
- Dolphin Internet Services, Shikowabad, Uttar Pradesh
- U P InfoMax, Agra, Uttar Pradesh
- Fortune Computers, Modi Nagar, Uttar Pradesh
- Matrix InfoTech, NOIDA, Uttar Pradesh
- TelExcell Networking Solutions Pvt Ltd, New Delhi
- Mayna Education, Gurgaon , Haryana

- Always Online Networks, Moradabad, Uttar Pradesh
- Vintron Communications Pvt Ltd, New Delhi
- Shiva Enterprises, Ludhiana, Punjab
- J C Systems, New Delhi
- Wirless Solutions Pvt Ltd, Jammu & Kashmir
- Chadda Sugar Mills, Gajrolla, Uttar Pradesh
- Mapple Computers, Tata Nagar, Jharkhand

Institutions :

- City Montessori School, Uttar Pradesh.
- Ram Manohar Law College, Lucknow, Uttrar Pradesh
- SRMS College, Barailly, Uttar Pradesh
- Lingayas College of Management, Faridabad, Haryana
- Vidya Sanskar, Faridabad, Haryana
- BSAITM – College of Medical Sciences, Pali, Haryana
- Amity University, Noida (Uttar Pradesh).
- Annu Pama Engineering college,Manesar (Haryana)
- GITM Engineering College , Bilashpur, (Haryana)

Some Of Our Valued Customers

- * Excel Media, Hyderabad.

- * DBS Communications, Hyderabad .

- * JNTU Campus Wireless Networking, Hyderabad.

- * Apollo Hospitals, Hyderabd.

- * Guntur Municipal Corporation, Guntur.

- * APTECH IT Institute, Guntur.

- * Nagarjuna University, Guntur.

- * Sridevi Engineering College,Ghatkesar,Hyderabad.

- * Kushalava international Ltd,Vijayawada.

* Vignan Engineering College, Vadlamudi.

* R.V.R Engineering College, Guntur.

* Andhra Bank, Old Guntur.

* Andhra Bank, Kannavari Thota, Guntur.

* Dena Bank,Guntur.

* Eluri Bank,Guntur.

* Water Works, Guntur.

* N.T.R Stadium , Guntur.
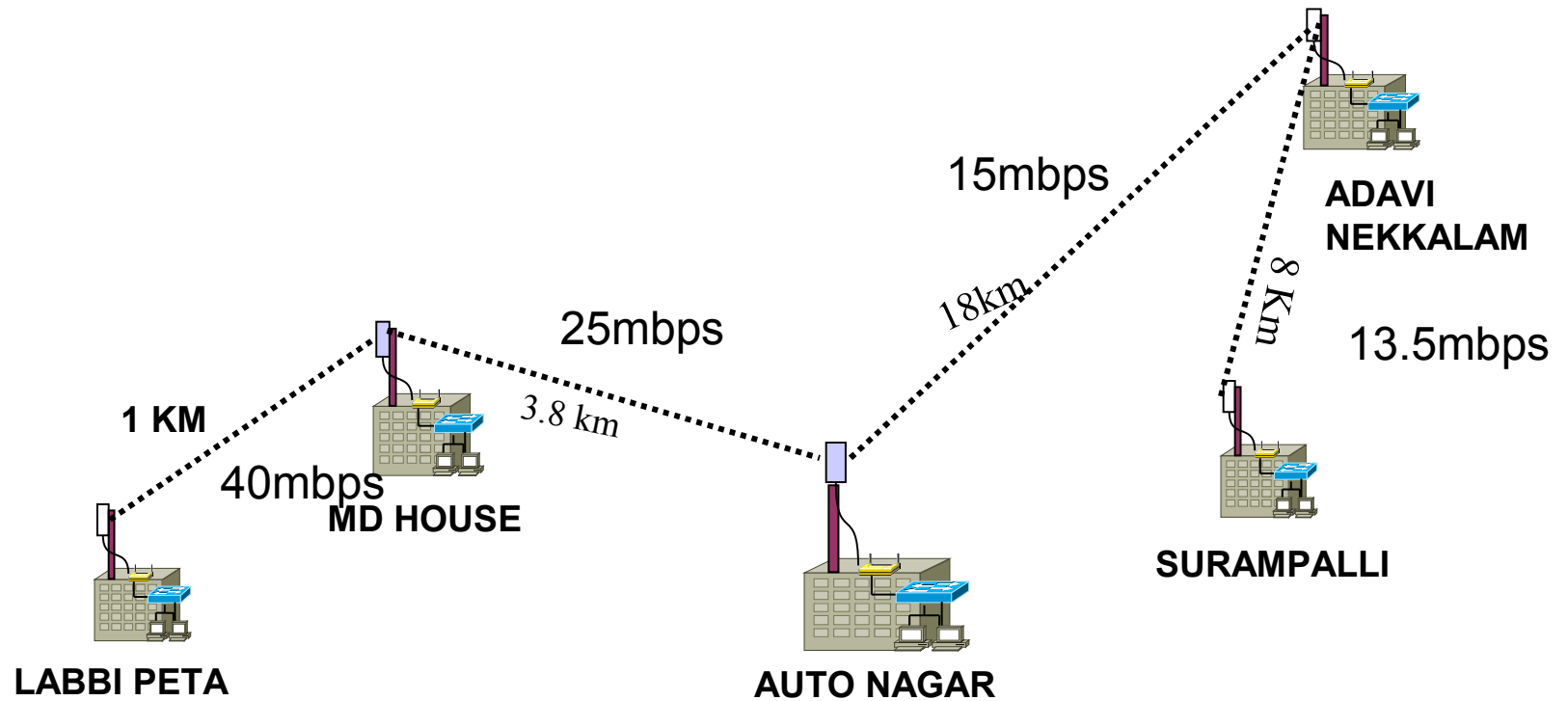
* Narasaraopet Engineering College, Narasarao pet, Guntur.

* BEAM CABLE SYSTEMS LTD, Hyderabad.

* APOLLO WIRELESS ISP, Hyderabad .

* JC BROTHERS , Hyderabad.

* BEYONDBASIKS (EASY MOVIES) HYDERABAD.

* SKYTEL,HYDERABAD.

  * MYGURU ONLINE,Guntur.

  * SWIFTMAIL COMMUNICATION, HYDERABAD.
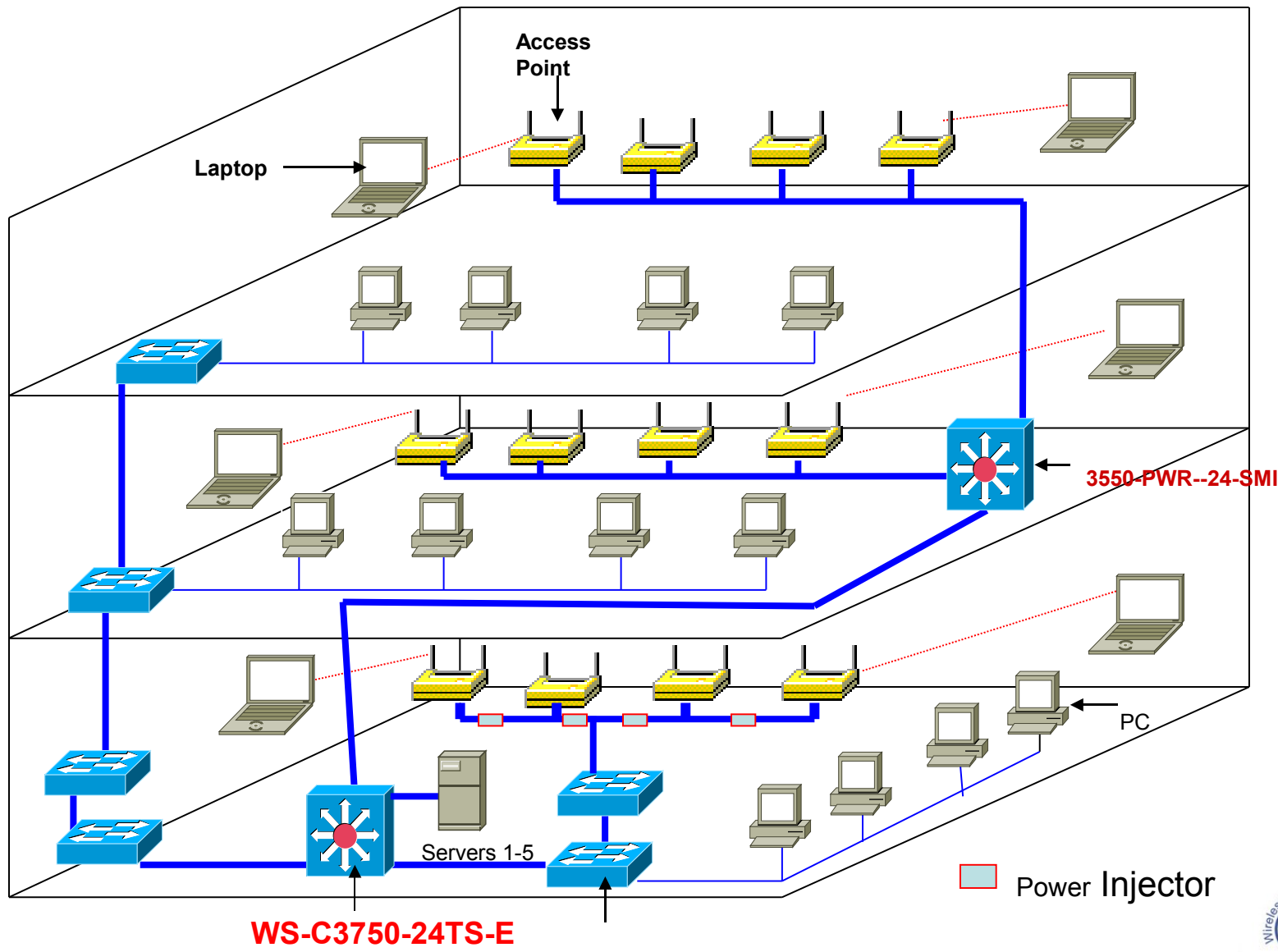
  * Water Works ,HYDERABAD.

- Typical

- Solution

- Designs

Design Extracts From Some Customer Solutions

Kusalava International Pvt Ltd, Vijayawada.

15mbps

ADAVI NEKKALAM

18km

8 Km

25mbps

13.5mbps

1 KM

3.8 km

40mbps

MD HOUSE

SURAMPALLI

LABBI PETA

AUTO NAGAR

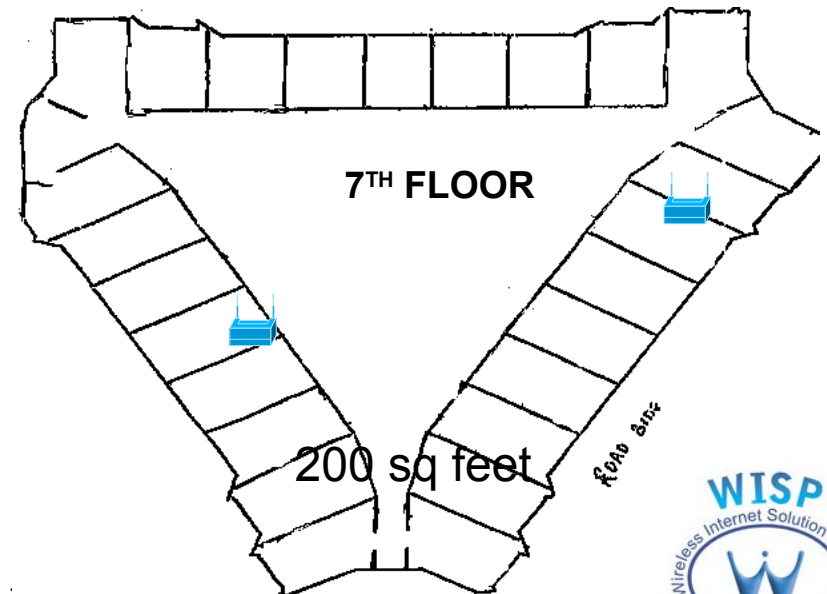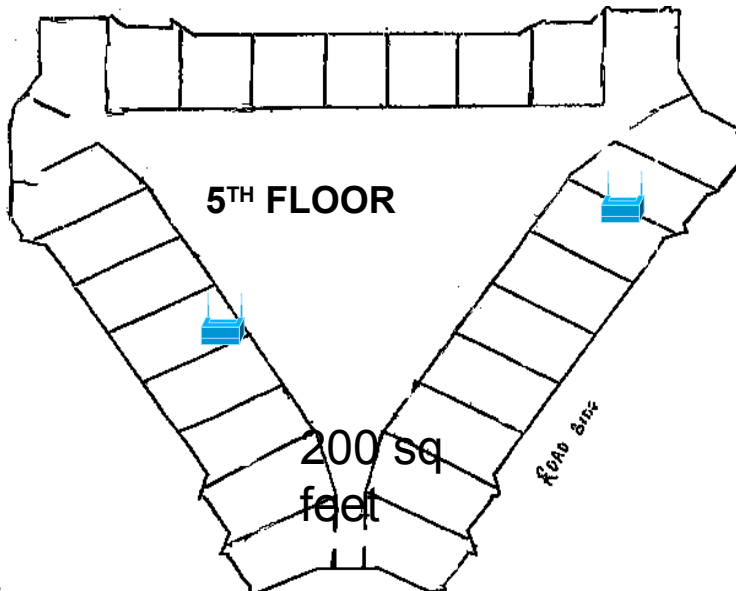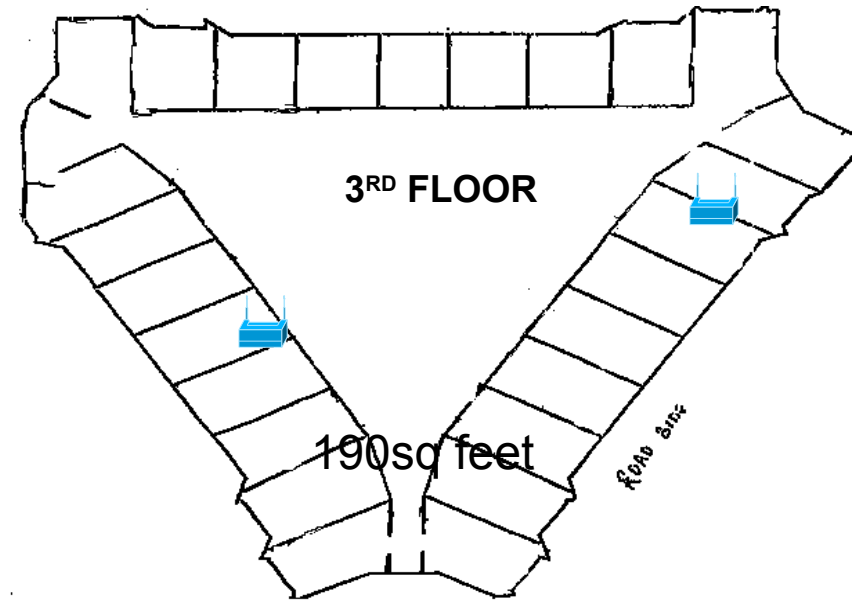WISP
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Block Diagram of Jawaharlal Nehru Technological University - WLAN
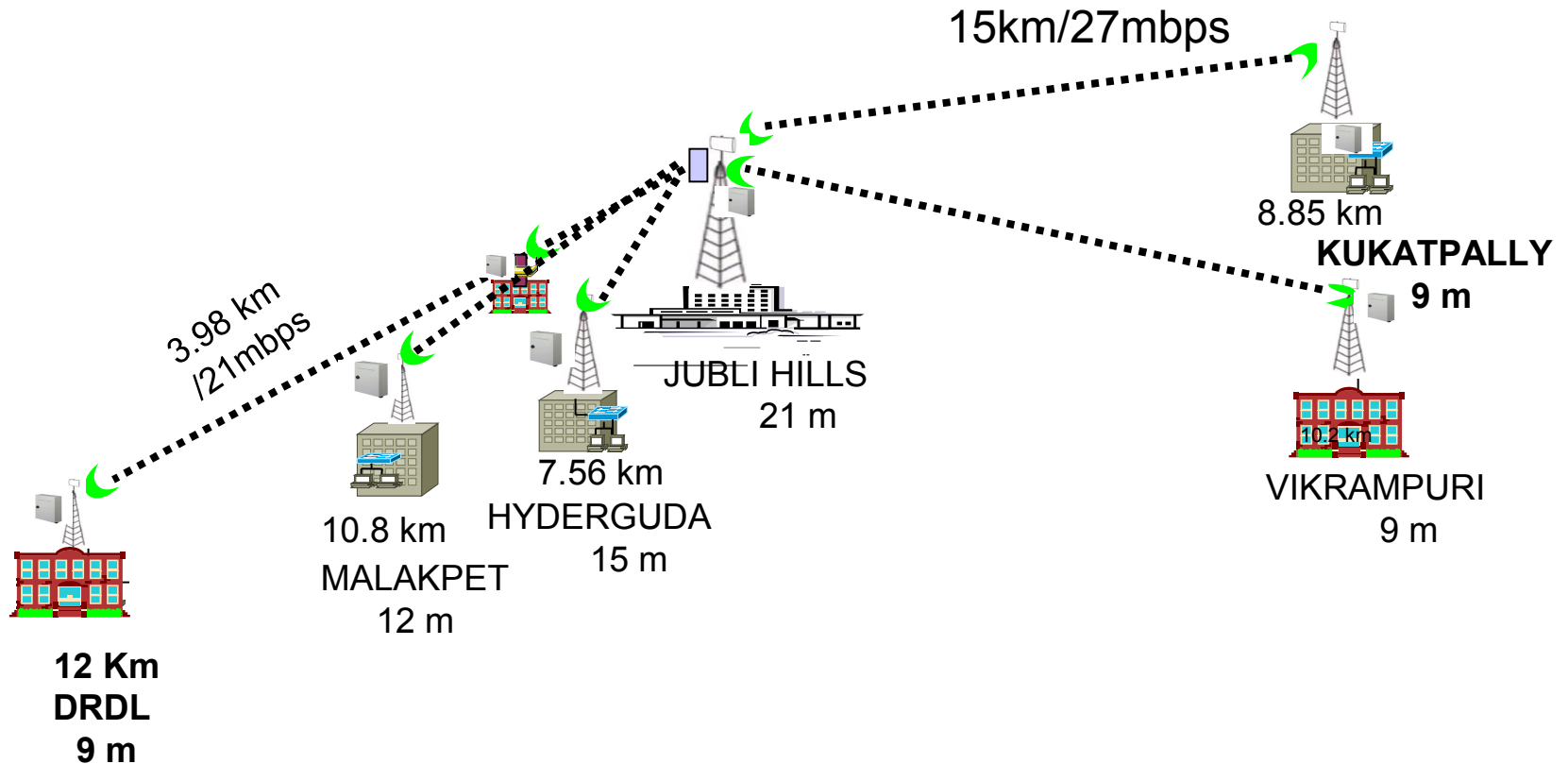
Typical Solution Designs

Access Point

Laptop

3550-PWR--24-SMI

Servers 1-5

PC

WS-C3750-24TS-E

Power Injector

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Hotel Golkonda

Typical Solution Designs

LOBBY

170sq feet

ROAD SIDE

3RD FLOOR

190sq feet

ROAD SIDE

5TH FLOOR

200 sq feet

ROAD SIDE

7TH FLOOR

200 sq feet

ROAD SIDE

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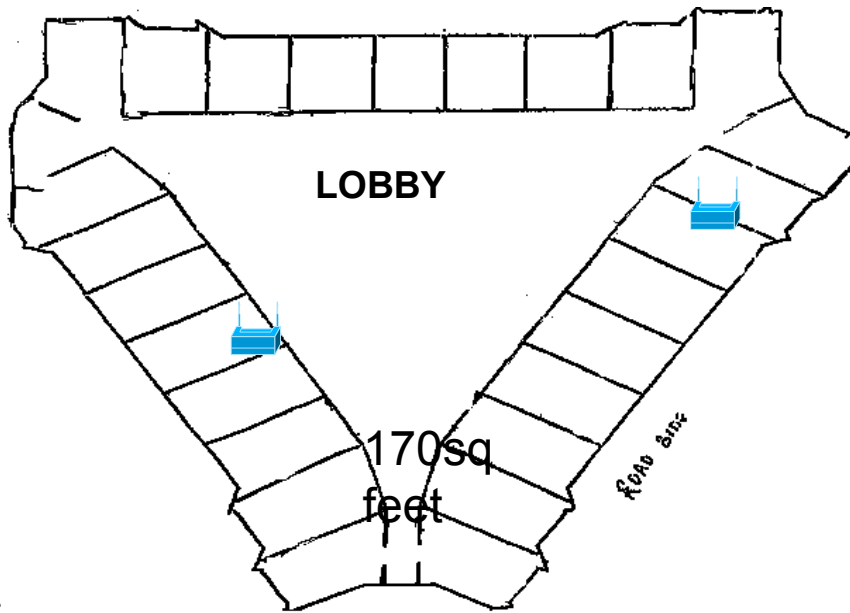
Wireless Network Topology for Apollo Hospitals

Typical Solution Designs

15km/27mbps

8.85 km
KUKATPALLY
9 m

3.98 km
/21mbps

JUBLI HILLS
21 m

7.56 km
HYDERGUDA
15 m

10.8 km
MALAKPET
12 m

10.2 km

VIKRAMPURI
9 m

12 Km
DRDL
9 m

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Network Topology Of Narasarao Peta Engineering College

Typical Solution Designs

22 Km

23 Km

411

GUNTUR

411

SATHENAPALLI

411

NARASARAO PETA

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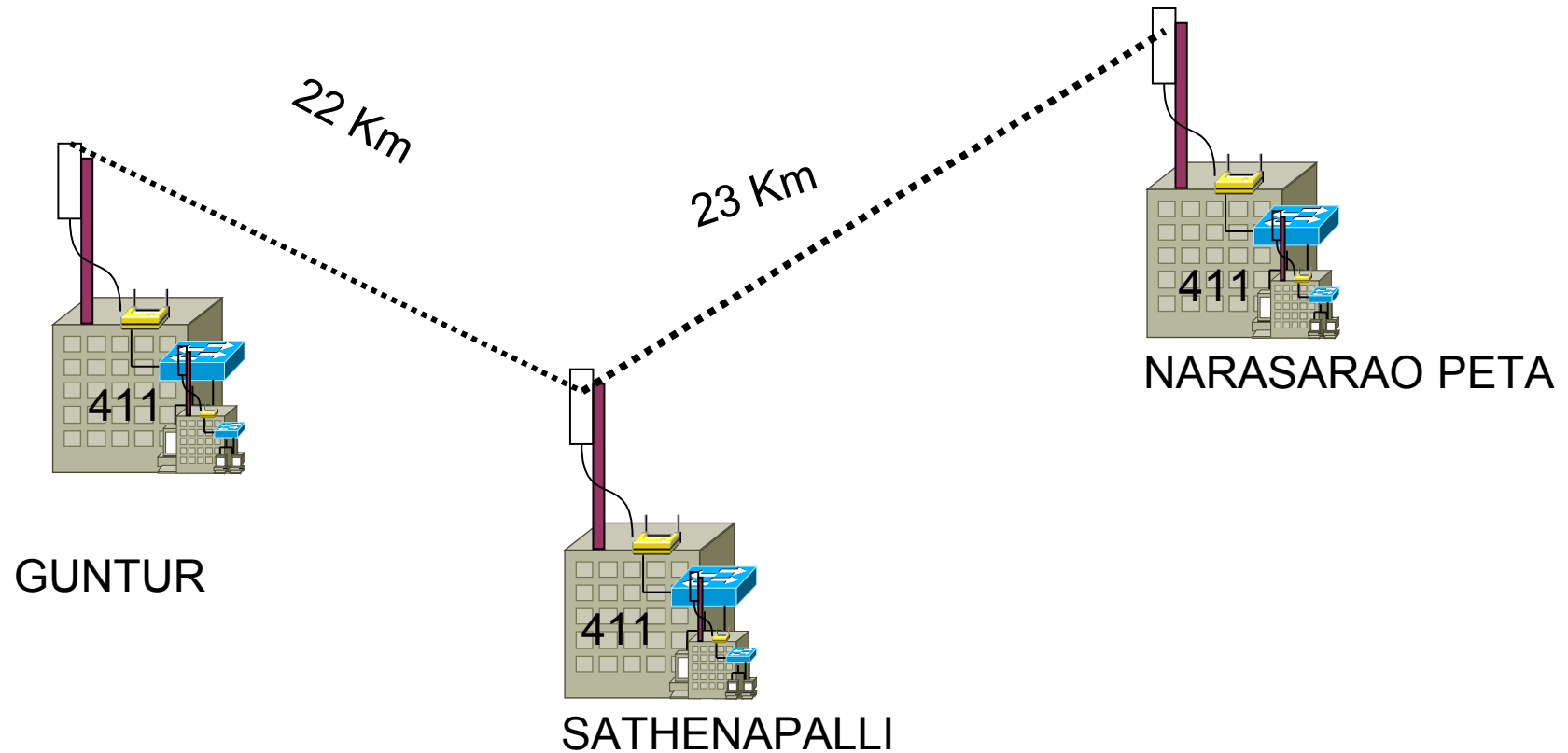
Network Topology for Multipoint Wireless Link For
Guntur Municipal Corporation

411

Eluri Bank

411

Dena Bank

532

GMC

411

Andhra Bank
Old Guntur

411

Water work

411

Kannavari Thota
Andhra Bank

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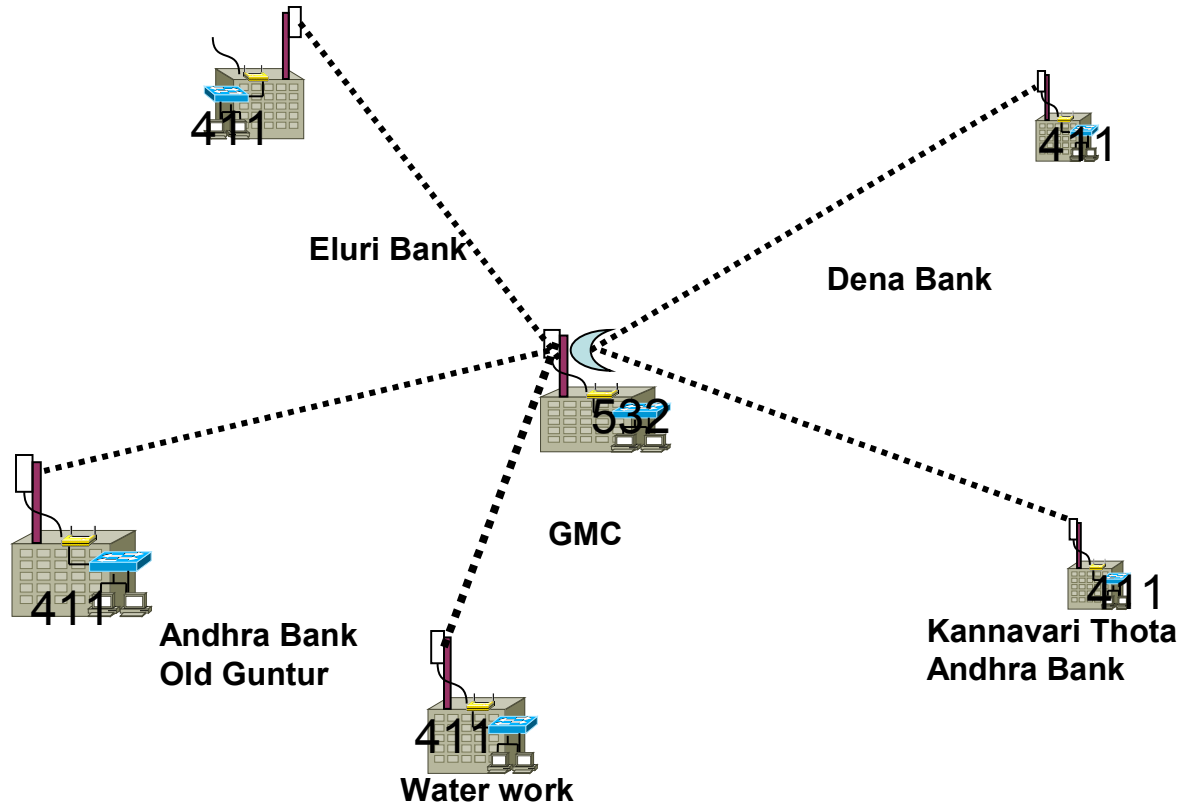
Network Topology Of Shree Cement Ltd.

TX/Rx

Tx=23.54mbps

F=5805   TX   RX F=5805

40.34

RX   kms

F=5825   Rx=24.37mbps   TX

Rx/Tx   F=5825

532A

532A

Shree cement

Banger cement

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Network Topology For Excel Media Typical Solution Designs

14 KM

Miyapur

SR Nagar Colony

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5 KM

Madhapur

7.09KM

Jubilee Hills

6 KM

Minerva

Domalaguda

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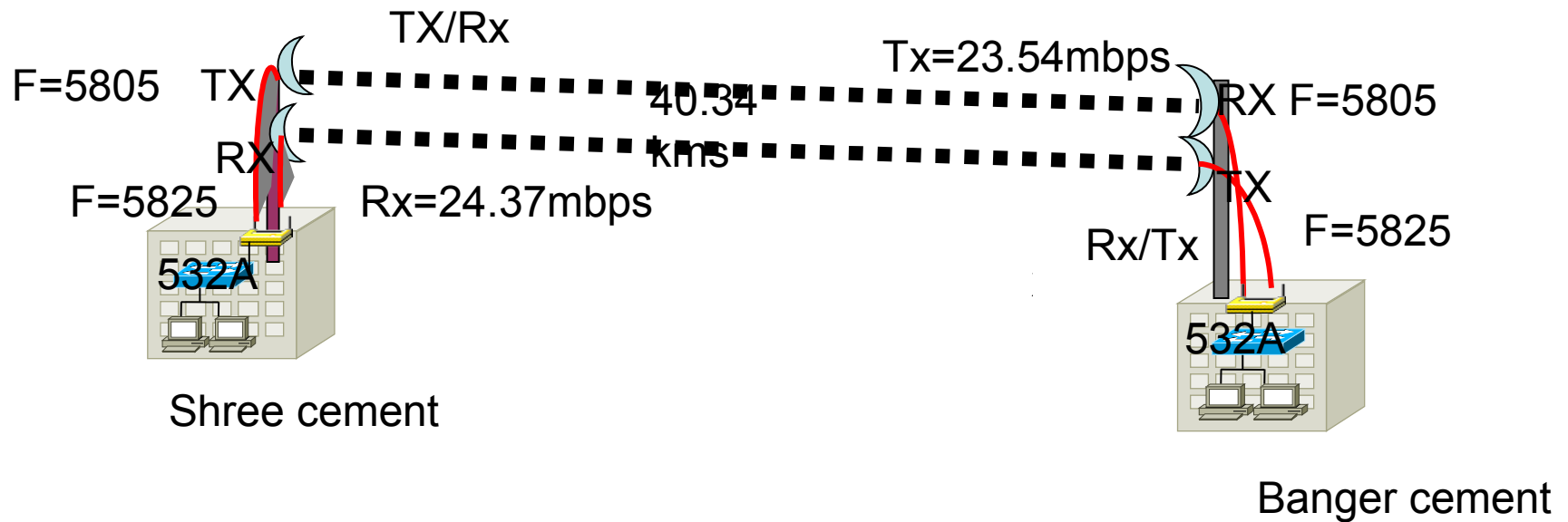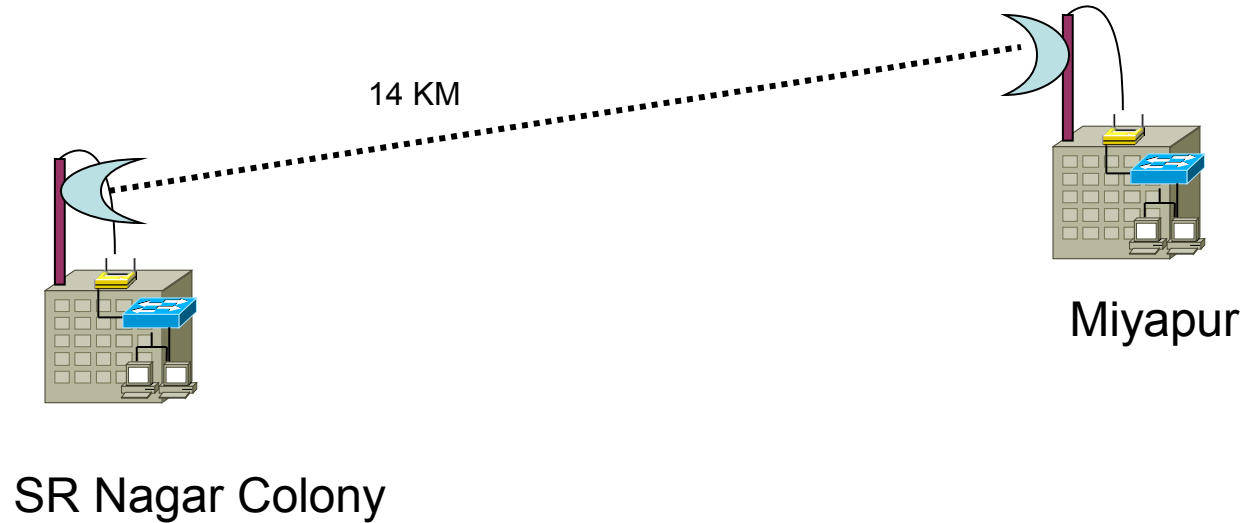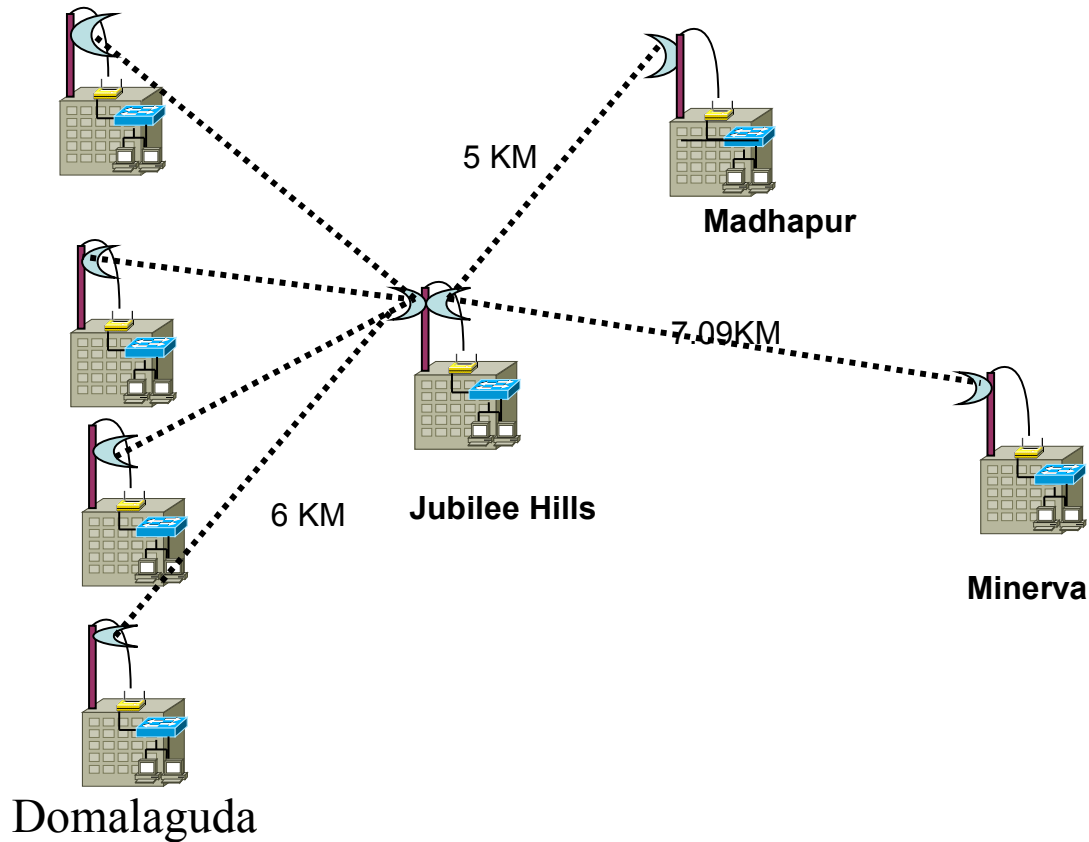
Network Topology Of APTECH, Guntur
to Vignan Engineering College, Vadlamudi

25 Kms

APTECH,Guntur

VEC,VADLAMUDI

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Network Topology Of Narasarao Peta Engineering College

22 Km

23 Km

GUNTUR

SATHENAPALLI

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Thank You!

WISP India

One Source For All Your Wireless & Wired Connectivity Solutions

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91-9346433666/91-9811686026
Enter The Wire-Free World

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