

Is Chirala Smart ?

K.M.S.Sailaja Rani, MCA,M.Phil.

Lecturer in computer Science, Department of Computer Science.

Y. A. Govt. Degree College for Women,
CHIRALA, Andhra Pradesh, India.

Abstract

CHIRALA is one of the famous towns in PRAKASAM district, which was located in Andhra Pradesh of India. Technological improvement in AP state changes the cities to smart cities. A smart city is an urban development vision to manage the city by integrating the Information and Communication Technology and internet of things in a challenging way. The purpose of making the smart cities is to improve the services to citizens or the public in an effective manner. Sri Nara. Chandra Babu Naidu, Chief Minister of Andhra Pradesh, highly focused on ICT to improve the contact between citizens and Government. In this context, a little curiosity is arrived that “whether the CHIRALA is smart city or not?” The research on this issue results the answer to the above question.

Keywords - Smart city, Technological improvement, Information and Communication Technology, ICT, Internet of Things, IOT, Citizens, Government, App, PuraSeva App, Cyber Crime, iAMS App, E-office, On Line Admissions, MANATV Live, Virtual Classes.

I. INTRODUCTION

Ongole (Prakasam) district was constituted on the 2-2-1970 by carving out portions of Guntur, Nellore and Kurnool districts. It was renamed as prakasam district in 1972 in memory of the eminent freedom fighter Sri. Tanguturi. Prakasam Pantulu, who, was the chief minister of the composite Madras state and the first chief minister of Andhra state. CHIRALA is one of the famous towns in PRAKASAM district, which was located in Andhra Pradesh of India. It is also known as KSHIRAPURI. It is a municipality and headquarters of Chirala mandal in Ongole revenue division. As per 2011 census, Chirala had a population of 87,200[1]. Chirala is also known as ‘small Bombay’ or ‘mini Mumbai’ of south India, where textiles and handlooms are famous till date. Every day thousands of people visit wholesale cloth market at Chirala to purchase. Cashew nuts are produced in different varieties and are exported across the world from in and around places of Chirala[2].

When reveal the ancient history, There can be no doubt about the rule of later satavahanas over this area for an inscription of Gautami putra satakarni

dated in his 27th regnal year was noticed at Chinaganjam in Chirala mandal.

Technological improvement in AP state changes the cities to smart cities. A smart city is an urban development vision to manage the city by integrating the Information and Communication Technology and internet of things in a challenging way. The purpose of making the smart cities is to improve the services to citizens or the public in an effective manner. Sri Nara. Chandra Babu Naidu, Chief Minister of Andhra Pradesh, highly focused on ICT to improve the contact between citizens and Government. The purpose of this research paper is to identify the integration of ICT in Chirala administration and service to public.

In this connection, a little observation on administration of Chirala town consists of so many departments including schools, colleges, hospitals, transportation, water supply management network, waste management, tourism, business, libraries and other community services. At the same time, the role of ICT on various departments also observed to find “whether it is smart or not?”

Handloom weaving industry is one of the main occupations in the city. The Wholesale and retail cloth marketing business influences on transportation at Chirala. The public transportation includes both on road and on Rails.

II. THE ROLE OF ICT IN VARIOUS DEPARTMENTS

A. Municipal corporation office

It is the governing body of Chirala municipality. It provides 58 types of services to the public. Chirala Municipal Corporation is using ICT for providing services in effective manner through PuraSeva app.

PuraSeva is a smart city application developed by eGovernment foundation ltd for department of Municipal administration, Government of AP Where; citizens can access various municipal services from their smart phones(Fig 1).

It provides platform where a user{citizen} can report issues from the smart phone. The user can take a picture of the problem being faced and the app allow to upload the image with brief explanation of the problem encountered. The application

automatically captures the exact location of the issue and routes it to the concerned municipal official for early resolution (Fig:2). The user can track the status of the smart phone as well.

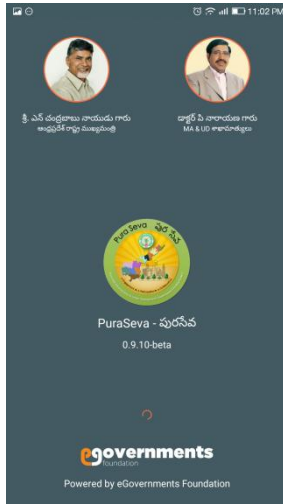


Fig 1: PuraSeva app in smart phone

The user can also know the property tax and water charges due for his assessment using the application.

B. Road transport

APSRTC: Chirala APSRTC is totally using ICT services. Chirala runs its buses to the following routes. They are Ongole, Vijayawada, Narasaraopeta, Repalle, Purchur, Shapur, Hyderabad, Bangalore, Swarna, Cherukupalli, Gollapalem, Bapatla, Peda nandipadu, Thimmasamudram, Inkollu etc . Chirala buses are run by APSRTC and included in the APSRTC App. An android phone can provide so many online services like search for general schedule of buses from Chirala to other places, Live tracking of buses by vehicle number, Track bus by reservation service number, search for nearest bus stops, online booking, online feedback, bus service databases, employee databases etc. Therefore, road transport of APSRTC in Chirala is fully utilizing the ICT for public convenience and providing online information. Every bus consists of TIM for issuing tickets for passengers.



Fig 3: APSRTC App

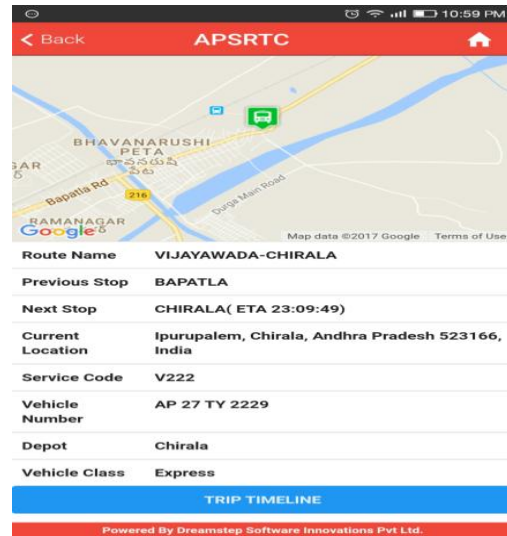


Fig 4: Live tracking of vijayawada to chirala bus

Online support also providing with the help of website[6] for complaints.

C. Rail Transport

IRCTC: Online railway reservations are done by various reservation centers in Chirala. It is also possible to get the online information on Chirala railway station and arrival and departure of train schedules etc.

D. MeeSevaCenters:

The Prakasam district consists of 433 AP Online centers for providing 316 online services from various departments. Citizens in Chirala are utilizing Mee Seva for online payments and or issue of certificates. For eg. Student can also apply migration, birth certificate and duplicate marks memorandums etc. through MeeSeva without going to the far places.



Fig 5: Utilization of MEE seva services

E. Education

Various educational institutions in chirala are utilizing online attendance system app(iAMS)(Fig 6), biometric attendance for both staff and students including YA Govt. College for women, Chirala. Commissioner of collegiate education took interest to provide online lessons through virtual class rooms, which was available at YA Govt. College for women, Chirala. With this facility the students are benefited by hearing the lessons from experts not only in the college campus but also outside the campus throughout the state. During the year 2018-2019 the degree college admissions are centralized and applications are uploaded into the cce website and online admission process is introduced. All the Govt. institutions like schools and colleges are well equipped with computers, LCD Projectors, internet facilities, MANATV live telecast lessons, Moocs online courses, Swayam platforms, youtube and audio, video lessons and power point presentations etc. This results the increase ICT in both teaching and learning from the primary study to technical and professional education.

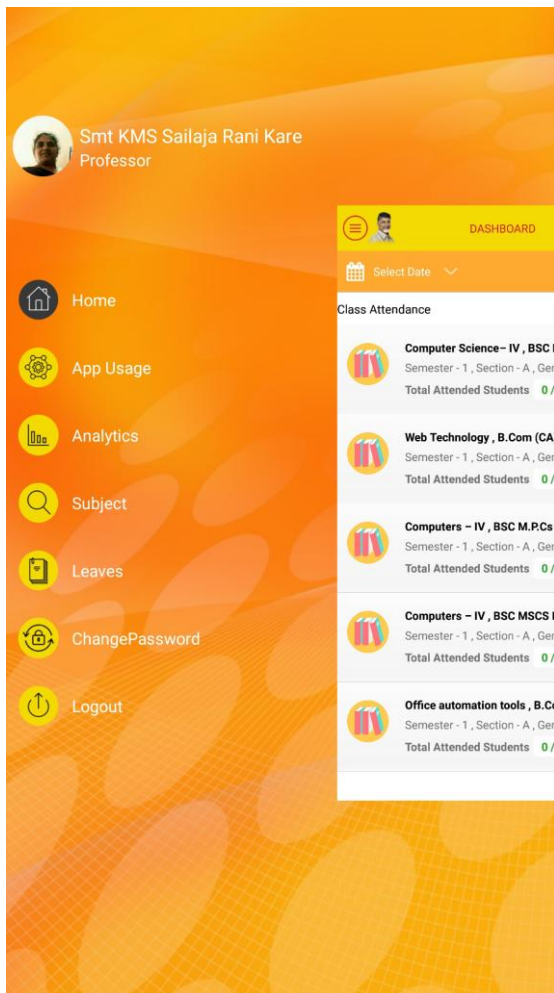


Fig 6: iAMS app using in YAGDCW,Chirala

F. Post office

The ICT revolution has had a considerable impact on the postal sector. The use of ICTs in the postal sector has given a tremendous boost to the growth of the ICT industry and services. What is more, the impact of ICTs used by Posts has not been confined to the postal sector; their cascading effect has had an impact on governance and its societal and economic linkages. Besides contributing to more inclusive economic growth and more responsive governance, the projects have also encouraged the growth of e-commerce and mobile commerce[5].

All the E- services, which are available at India post is utilized in the chirala post office. The public used services are both web based and internet based services

- Booking rooms at Tirupati
- Booking Prasadam at Tirupati
- Delivery system with tracking both nationally and internationally.
- E-commerce
- Payment on Delivery

G. Other sectors

LIC, ILTD, Banking sector, More super market accepting online money transfer, Akruthi silks accepting money through swipe machines, Swati silks in their business accepting on line money transfer, cybercrimes and police, printing industry, various shops providing online services, billing and e-payments, IT returns, hospitals, hotels, electricity department online messages for bills payment, on line gas booking, online booking for resorts etc. are using the Information Communication Technology in Chirala.

H. Statistics for ICT

Table I. Apsrtc Ict Bus Statistics

Depo	APSRTC APP		
	No. of buses from chirala depo	Buses using Ict with APP	With out App
Chirala	89	89	nil

Table showing buses using App and TIMS

Tavle II. Apsrtc Ict Bus And Tim Statistics

TOTAL NO OF BUSES	APSRTC APP with TIM		
	No. of SERVICES using from chirala depo	Buses using TIM with APP without conductor (driver(sing le man) service)	Buses using TIM with APP with conduc tor
89	79	33	46

III. METHOD OF RESEARCH

By visiting the different organizations in Chirala and observed the services provided and also collected services used by public. The statistical data analysed

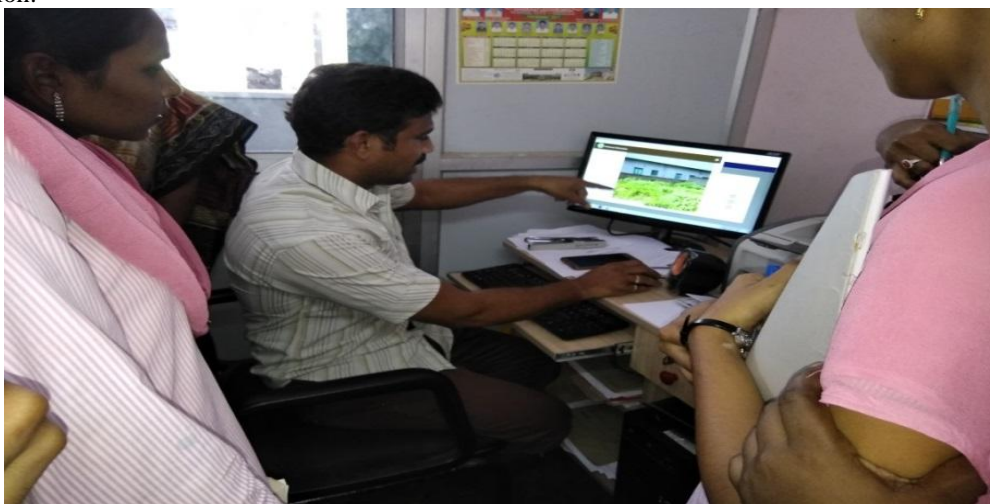
and concluded that the the services provision and utilization of public are different in nature.

A. Abbreviations and Acronyms

YA – Yarlagadda Annapurnamba
LIC –Life insurance corporation
IT –Income tax
LCD- liquid crystal display
Govt –Government
iAMS- integrated attendance management system
E-services- electronic services
AP –Andhra Pradesh

APSRTC- Andhra Pradesh state road Transport Corporation.

ICT- information and communication technology
IOT- internet of things
E-office – electronic office
CCE – commissioner of collegiate education
IRCTC- Indian railway catering and tourism corporation.
TIM – ticket issuing machine.
App- application
YAGDCW –Yarlagadda annapurnamba government degree college for women.



B. Fig 2: Using PuraSeva app in office to clear the complaint on garbage and weeds removal and identifying the location

CONCLUSION

The research on “is Chirala smart?” gave interesting results on ICT services provided for effective utilization to public. Answer to the above question says that even though the organizations are providing ICT services due to lack of awareness and lack facilities, public are not using cent percent. Out of 10 organizations 8 are using and providing ICT services and facilities for public. This shows 80% organizations providing ICT services. 20 % has to improve the technological facilities. But only 48% of people are using ICT services. Remaining is due to lack of smart phones and internet facility and lack of awareness on latest technology. This shows that even though most organizations providing ICT services, Chirala is partially smart Town.

The above research can extend to detailed statistical level of reasons for using and not using ICT services and methods and measurements should take in and around Chirala. Conduct of awareness camps on ICT will makes the Chirala full-fledged smart town.

ACKNOWLEDGMENT

Thankful for above said organizations in-charges and staff for allowing us to get the information and kind support while providing the information of services. Thankful for Yagdcw organization head for gave the permission and encouragement for the research on this issue. Thankful to students of this organization for accepted organization visits and kind cooperation. Thankful to shree velagapudi Ramakrishna memorial college, Nagaram for conducting ICSCTE conference.

REFERENCES

- [1] www.censusindia.gov.in/2011census/dchb/2818_PART_B_DCHB_PRAKASAM.pdf
- [2] <https://en.wikipedia.org/wiki/Chirala>
- [3] <http://chirala.cdma.ap.gov.in/>
- [4] https://www.itu.int/ITU-D/tech/rural_telecom/Rural_Publications/dcc_livreUitEn.pdf
- [5] <https://www.onlinejournal.in/IJIRV311/018.pdf>
- [6] www.online.support@apsrtc.online.in