

# SMART CITIES A NEW STEP TOWARDS URBAN DEVELOPMENT IN INDIA WITH SPECIAL REFERENCE TO JABALPUR CITY M.P.

MOHAMMAD IQBAL SHAH

Research scholar, Department of Geography. Government vidarbha Institute of Science and Humanities  
Amravati.

## Abstract

This paper attempts to analyze the concept of smart city in India as it is new concept for development of cities in our country. Government of India has embarked on an ambitious program of developing 100 Smart Cities on fast track with focus on building modern physical disaster resilient infrastructure that are scalable, intelligent and interoperable to build smarter cities and meet growing demand of various types of services. For the present study The data is taken from both primary and secondary sources. The first question is what is meant by a 'smart city'. The answer is, there is no universally accepted definition of a smart city. It means different things to different people. The conceptualization of Smart City, therefore, varies from city to city and country to country, depending on the level of development, willingness to change and reform, resources and aspirations of the city residents. A smart city would have a different connotation in India than, say, Europe. Even in India, there is no one way of defining a smart city. This paper discuss the future of Jabalpur city M.P as a smart city. Jabalpur has been recently announced among one of the developing smart cities. This beautiful city is situated on the banks of river Narmada basin lies between east longitudes 72° 32' to 81°45'E and north latitudes 21°20' to 23°45'N. Jabalpur has seven Tehsils and seven Blocks & five hundred forty five gram panchayats . . Smart city uses information and communication technologies to improve contact between citizens and government and to enhance quality, performance and interaction of urban services to reduce cost and resource consumption with waste management. The city covers almost an area of 374 km sq. and has an elevation of 412 m. It is the 3rd largest urban agglomeration according census 2011.

Key words: smart, city, development ,IT,Government.

## INTRODUCTION:

In the line of the Smart Cities Mission, the objective is to sponsor cities that deliver core setup and give a dressed quality of life to its citizens, a clean and sustainable environment and application of 'Smart' Solutions. The focus is on sustainable and comprehensive development and the idea is to look at compact areas, create a replicable model which will act like a light house to other aiming cities. The Smart Cities Mission of the Government is a bold, new initiative. It is meant to set examples that can be replicated both within and outside the Smart City, catalyzing the creation of similar Smart Cities in various regions and parts of the country. The acronym of smart is as given below:

S – SPECIFIC

M –MEASURABLE

A -ACHIEVABLE,

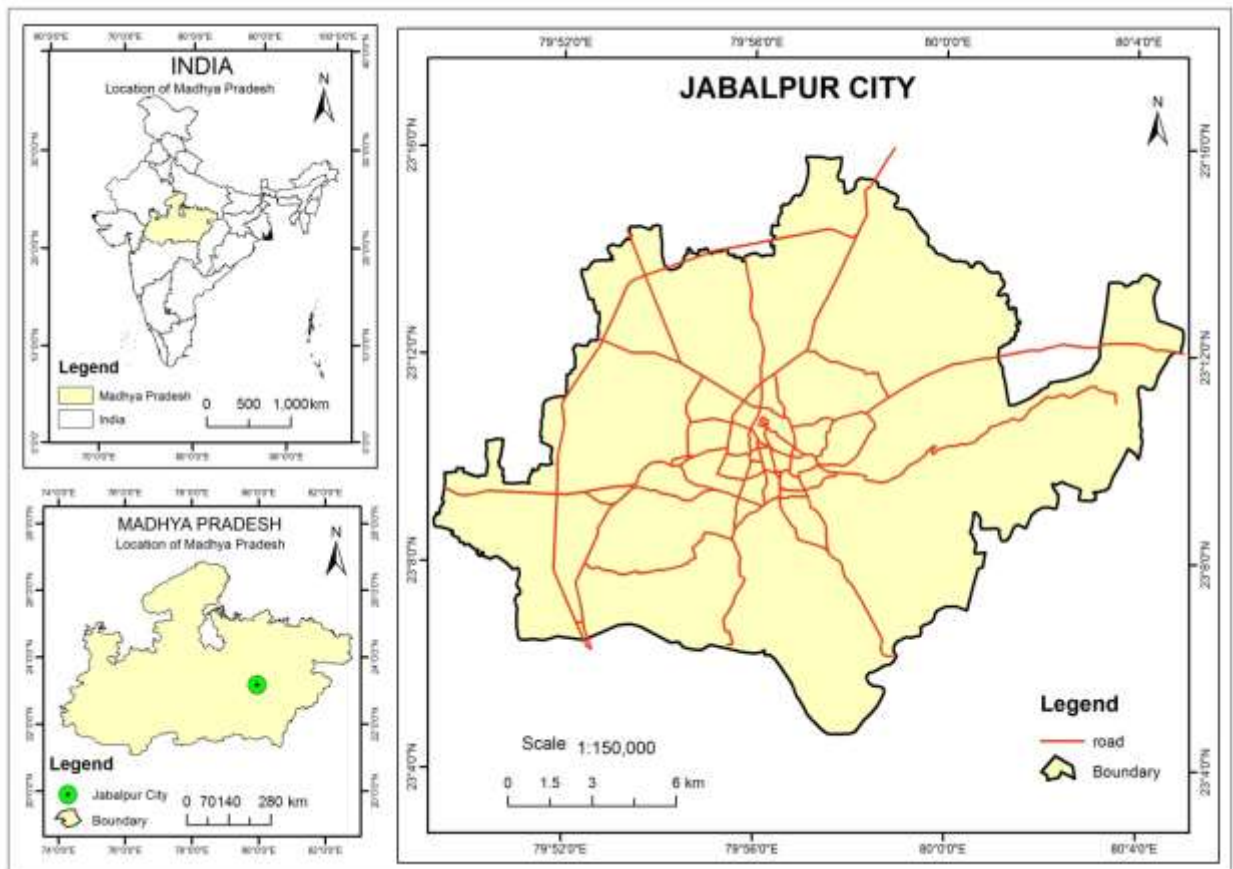
R –REALISTIC

T –TIMELY.

So as per as its' acronym is concerned it is a process of specific ,measurable , achievable , realistic and time bounded . so development of smart city is really measurable to achieve the specific goal of development in a particular period of time.

### STUDY AREA :

The city of Jabalpur is third largest city of Madhya Pradesh state. It is an important trade and commerce center, industrial center, educational center and administrative center of regional and national importance. At the time of the formation of Madhya Pradesh state, the city was being considered for the status of state capital, which eventually did not happen. The city is part of million plus urban agglomeration of Jabalpur. It has a population of 1081677 as per Census of India (2011). The city is governed by the Jabalpur Municipal Corporation constituted under Madhya Pradesh Municipal Corporation Act (Act 23 of 1956). The JMC has a Mayor-in-Council type of system and all basic infrastructure needs of the city are the responsibility of Municipal



corporation.

Locational Map of Jabalpur city.

Jabalpur Smart City Proposal (SCP) has been selected to implement the Area-Based Development (ABD) and Pan-city proposals by Government of India (GoI) under Smart City Mission (SCM), wherein 98 cities in India competed for first 20 positions. The Jabalpur SCP proposes several ICT based smart solutions in ABD and across pan-city providing various smart features/ infrastructure in line with the SCM guidelines.

Jabalpur has been selected as one of the hundred Indian cities to be developed as a smart city under Smart Cities Mission. Jabalpur is at the heart of India. It situated in the bank of the river Narmada basin lies between east longitudes  $72^{\circ} 32'$  to  $81^{\circ} 45'E$  and north latitudes  $21^{\circ} 20'$  to  $23^{\circ} 45'N$ . Smart city uses information and communication technologies to improve contact between citizens and government and to enhance quality,

performance and interactivity of urban services to reduce cost and resource consumption with waste management. The city's name is derived from the legendary sage Jaabaali, who is mentioned in the *Ramayana*, and may refer to Jaabaali's *tapasya-bhoomi* (place of penance).

### Objectives:

The present research work has been carried out with the following objectives:

1 .To find out the different developing works of the Jabalpur city.

To analyze the factors that is essential for developing Jabalpur as a smart city.

3.To analyze the urbanization growth factors.

4To analyze infrastructure of the Jabalpur city.

### Research methodology :

The present paper is basically descriptive and analytical in nature. For the present study data taken from both the sources primary( field observation survey) as well as secondary source. For the present study, There are different types of sampling techniques. Each and every sampling has its own merits and demerits. In fact a sample should be representative of the whole population. The sample for present study is cluster sampling, under this method whole population is divided into some recognizable sub divisions which are termed as clusters and random sampling of these clusters is drawn and then the survey of these clusters is done after that the survey of each and every unit in the selected cluster is made.

**Observation:** some field observation of changing surrounding area into betterness is seen on field survey.



## Solid waste management



**Collection of Garbage from Door to Door Services by Nagar Nigam.**



**Road development at pachmiri near RDVV UNI.**

**Discussion on FUTURE OF JABALPUR:** In future the Jabalpur city may be imagined having more progress in various fields by the help of smart cities mission. Some facilities can be looking in the city in future such as:

- Sustainable environment.
- Good urban mobility.
- Best public transport.
- Proper attention towards sanitation.
- Safety and security of citizens.
- Best education and health facilities.
- Smart parking.
- Good wastage management.
- E shopping and e Governance.
- Best communication facilities will be observed.
- future
- Free Wi-Fi for whole city
- Metro rail way connectivity in the city area.
- Establishment of working comities
- Housing & Inclusiveness
- A5- Redevelopment of slums
- A6- Mixed Income, High density, development on Public land
- Utility Duct
- A7- UG Utility Ducting & shifting of utilities (Power, Telecom, Gas)
- Transportation and walk ability
- Transport & mobility
- A30- Improvement of Roads, Vehicular Intersections and Pedestrian Crossing through Geometric design as per Street Design Guidelines
- A31- Intelligent Traffic Management System
- A32- Smart Parking
- A33- Development of Smart Bus Stops
- A34- Development of Green Corridor and Pedestrianisation of Civic Center
- A35- E-rickshaw as NMT
- A fety And Security
- A40- Sensor enabled LED Lighting System on Streets, Pedestrian paths and public open spaces
- A41- Installation of Multi use CCTV Cameras for security, surveillances and traffic monitoring

- A42- Unified Pole with VMS, PA, Variable Sensors etc
- A43- Provision of Fire Hydrant System
- A44- Disaster Management and Mitigation Center
- Smart city code FOR JABALPUR IS MP-04- JAB
- A fety And Security
- A40- Sensor enabled LED Lighting System on Streets, Pedestrian paths and public open spaces
- A41- Installation of Multi use CCTV Cameras for security, surveillances and traffic monitoring
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### **Discussion And Suggestions :** for development of Jabalpur city as a Smart City.

To develop Jabalpur as a smart city and save its natural beauty, some Essential measurers should be taken in the way of smart city “development without destruction”

**1. Preservation of cultural heritages:** the historical monuments in the city should be preserved in the work period and save for it future generation. So it is suggested that paper care of Govt. is necessary.

**2. Citizen engagement and medium participation.**

Without the participation of the people of the city it is impossible to develop Jabalpur as a smart city .in all programs and conferences citizens should be aware about the smart city facts and their participation is must.

**3. Street lighting system of city**

Night movement of citizens and transport availability is an essential factor of infrastructure for developing Jabalpur as a smart city and it is also a factor which is must for the safety and security of all the citizens of the city. The destinations like Gantaghar, Pachmari and Sadar market lack proper public lighting system. So it is suggested that proper lighting system should be installed considering the nature of spots at all destinations in Jabalpur.

**4. Set-up Hospitals with smart Facilities**

Quality medical facility in a region is one common yardstick of that area’s prosperity and quality of life. It also influences those who come to that region. The city lacks proper hospital facilities, so it is highly recommended to take suitable measures from the part of government to set up hospitals with all modern facilities on their own or with the help of other agencies.

## 5. Establish smart Facility for tourists

The availability of quality, value-for-money accommodation is a key component which influences the destination choice of a traveler. The tourist places in the city area are found lack in providing proper accommodation facility which caters to the needs of back packers and low budget tourists. Hence it is suggested that more budget hotels are to be established at all destinations in tourist places of the city.

## 6. Give due Consideration to the Local Community

It is found that the host community is dissatisfied with the development works because they suffer from different obstacle like leaving the habitual places, shops to rebuild the sight. So it is suggested that proper rehabilitation packages should be given to those who suffer due to development of the city. It is also put on record that the grievances of the local community should be taken in consideration while developing the infrastructure of the city.

## 7. Protect the Natural Beauty of the city.

Jabalpur is a place of natural beauty. It is our duty to preserve this for the sake of our future generation and for the whole world. It is found that the development of city in some of the tourist places of upper Narmada Basin adversely affect the bio-diversity of that region. So it is recommended that proper care should be given to protect the nature in the destinations. While investing for the development of tourism in future, priority should be given to nature-based-tourism. i.e. minimizing the construction of physical man-made structures in the biologically sensitive area.

## CONCLUSION:

Development of the cities is the main priority of the government and is today emerging as a leading factor in the world and is now considered as one of the essential factor of progress. All fields like Economic, Education, information-technology, Demographic, socio-structural and socio-cultural developments have always led to changing with time. I conclude that we are very back in the development of cities. We have to work very hard to change our cities. The responsibilities of Government and the citizens play a key role for developmental works of the city. The smart cities of the world are more progressive in every field and have smart system of facilities. The infra-structure which is available in the smart cities is quite different as the other cities. I also conclude that the citizens of smart cities follow all protocols of the government and cooperate with government. Join our hands with our government work together to make future of our country better.

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