

College : GOVERNMENT ENGINEERING COLLEGE, MODASA  
 Department : Computer Engineering  
 Discipline : BE  
 Semester : Semester 8  
 Project Name : SMART CITY  
 Team ID : 125644

## Form 1 – APPLICATION FOR GRANT OF PATENT

Applicants :

Sr. No	Name	Nationality	Address	Mobile No.	Email Id
1	Basita Ronakkumar Kamleshbhai	Indian	Computer Engineering , GOVERNMENT ENGINEERING COLLEGE, MODASA , Gujarat Technological University.	8347874257	ronakbasita230@gmail.com
2	Pathan Mohammad Riyazkhan Siraj Khan	Indian	Computer Engineering , GOVERNMENT ENGINEERING COLLEGE, MODASA , Gujarat Technological University.	9909221451	786rspathan@gmail.com
3	Chavda Darshan Rameshbhai	Indian	Computer Engineering , GOVERNMENT ENGINEERING COLLEGE, MODASA , Gujarat Technological University.	8264829136	darshanchavda114@gmail.com

Inventors :

Sr. No	Name	Nationality	Address	Mobile No.	Email Id
1	Basita Ronakkumar Kamleshbhai	Indian	Computer Engineering , GOVERNMENT ENGINEERING COLLEGE, MODASA , Gujarat Technological University.	8347874257	ronakbasita230@gmail.com
2	Pathan Mohammad Riyazkhan Siraj Khan	Indian	Computer Engineering , GOVERNMENT ENGINEERING COLLEGE, MODASA , Gujarat Technological University.	9909221451	786rspathan@gmail.com
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		COLLEGE, MODASA , Gujarat Technologycal University.		
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I/We, the applicant(s) hereby declare(s) that:

Following are the attachments with the applications :

## Form 2 - PROVISIONAL/COMPLETE SPECIFICATION

1 . Title of the project/invention :

SMART CITY

2. Preamble to the description :

Provisional

3. Description

a) Field of Project / Invention / Application :

Information Technology, Internet Of Things, Electronics and Communication, Automation.

b) Prior Art / Background of the Project / Invention :

“Smart City” IOT Project is about automation of some places that are in the city like Parking system, Street light, Waste Management, Water Supply for home or public tanks to promote cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment.

c) Summary of the Project / Invention :

In Smart Cities people live standard lives and do all the normal stuff with the help of latest technology trends like machineries, robotics and Information Technologies. Smart City Project provide following services

- Smart Waste Management
- Automatic Street Light
- Smart Parking System
- Smart Water System
- Smart city Project will also provide Mobile Application and Website to the users of city to make them allow to observe the environment around them.
- Using this project people can save their time, water, electricity and also make their city clean which helps to provide core infrastructure and gives decent quality of life to its citizens, a clean and sustainable environment.

d) Objects of Project / Invention :

- The Smart City project will give Quality life to the people of city and make their life more easy and convenient.
- Using this project people can save their time, water, electricity and also make their city clean which helps to provide core infrastructure and gives decent quality of life to its citizens, a clean and sustainable environment.

e) Drawings :

f) Description of Project / Invention : (full detail of project) :

“Smart City” is an IOT based project. The internet of things can be used to build a smart city in which all the places/modules in smart city are interconnected with each other with IOT components for efficient usage of resources.

Smart city can have smart parking system, smart waste management, smart water supply for home or public water tanks, automatic street light, etc.

Our project is about managing different modules that are used in daily routine like different corporate department

Smart waste management:- This system sense the current status of the dustbin and send appropriate signal to the dumping station.

Automatic Street Light system:- In this system the movements in area is detected and according to that the intensity of the street light will vary.

Smart Parking System:- In Smart parking system if the parking slots are full then it will not allow to enter and if it is not full then only it will allow to enter. User can observe the status of parking area through website or lcd display

Smart Water Distribution:- In smart water system if water tank is empty then it will turn on water motor automatically and if it is full then it will automatically turn off the motor. User can also observe the level of water tank through website.

g) Examples :

h) Claims (Not required for Provisional Application) / Unique Features of Project

“Smart City” Project is about automation of some places that are in the city like Parking system, Street light, Waste Management, Water Supply for home or public tanks to promote cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment.

- Using this project people can save their time, water, electricity and also make their city clean which helps to provide core infrastructure and gives decent quality of life to its citizens, a clean and sustainable environment.

4. Claims

5. Date and signature

6. Abstract of the project / invention :

Smart City is an IOT based project. Internet of things can be used to build a smart city in which all places in a smart city are interconnected with each other with IOT component for efficient usage of resources.

Smart city can have smart parking system, smart waste management, smart water supply for home or public water tanks, automatic street lights any many other things.

Smart city project is about managing different modules that are used in daily routine like different corporate department of city automatically by using

Information Technology, Digital Electronics and some help of Electronic Engineering.

Through this people can save their time, water, electricity and also make their city clean which helps to provide core infrastructure and gives decent quality of life to its citizens, a clean and sustainable environment.

## Form 3 – STATEMENT AND UNDERTAKING UNDER SECTION 8

Name of the applicant(s) : I/We, Basita Ronakkumar Kamleshbhai ,Pathan Mohammad Riyazkhan Siraj Khan ,Chavda Darshan Rameshbhai

Hereby declare :

Name,Address and Nationality of the joint applicant :

(i) that I/We have not made any application for the same/substantially the same victim invention outside India.

(ii) that the rights in the application(s) has/have been assigned to

Name of the Country	Date of Application	Application Number	Status of the Application	Date of Publication	Date of Grant
N/A	N/A	N/A	N/A	N/A	N/A

(iii)That I/We undertake that upto the date of grant of the patent by the Controller, I/We would keep him informed in writing the details regarding corresponding applications for patents filed outside India within three months from the date of filing of such application.

Dated this 29 day of April 2021

To be signed by the applicant or his authorised registered patent agent :

Signature.....

Name of the Natural Person who has signed : Basita Ronakkumar Kamleshbhai ,Pathan Mohammad Riyazkhan Siraj Khan ,Chavda Darshan Rameshbhai

To,  
The Controller of Patents,  
The Patent Office,  
At Mumbai