

## Vishwakarmayojna an Approach towards Rurbanization of Mordungra Village

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### ABSTRACT

Vishwakarma Yojana is organized every year by GTU. In it, students and nodal officers' study the situation of the village and plan its various structures along with the city-like lifestyle to create an excellent village. Students build a detailed project on the infrastructure based on their engineering skills and their diploma or degree level study knowledge. Through this project students will get experience of what they have to do in the future as well as real work experience. Ours is nation having 75% population in rural area. If technology does not reach them, they may move to urban centers that is creating a problem. This project gives optimum utilization of technology at doorstep of rural area. This in hand will improvise life style of rural people. Best use of technology will make better living in form of environment, health and employ ability. As student provide design to deliver solution for development there will be less remaining to be done for implementation. This will make implementation faster. The first requirement for the development of the village is the design of irrigation (water tank, canal), the design of solar system for electricity, and the design of paved roads. In addition, Panchayat building, schools (primary, secondary), design of proper drainage, design of solid waste disposal and design of bus stop, post office, gram in bank, public library and PHC are essential for the development of the village.

**KEYWORDS:** Proper Drainage system, Irrigation, Education, Road network, Health care center, Electricity

### INTRODUCTION

The main intent of Vishwakarma yojna is make village to smart village by providing to villagers all facilities and quality of life which enjoyed city people. The aim of the project "Developing village with a 'rural soul' but with all urban amenities that a city may have". In Gujarat state for the development rural area considering the basic Physical infrastructure facilities (sewerage system, water supply, village roads, network of electricity, sewage disposal system & other), sustainable infrastructures (solar energy (solar panel, solar Street light) biogas output plant, public toilet & rain water harvesting system etc.) Social infrastructure facilities (like education facilities like school, collages Anganvadi, hospital, sanitation facilities etc.) and social and cultural facilities (like community Hall, library building, panchayat building & other).

Mordungra village is located in Godhra Tehsil of Panchmahal district in Gujarat, India. It is situated 12km away from Godhra, which is both district & subdistrict headquarter of Mordungra village. As per 2009 stats, Mordungra village is also a gram panchayat. The total geographical area of village is 404.7 hectares. The village has a total population of 3,074 peoples. There are about 509 houses in village.

After a recent visit to the village most of the people in the village are engaged in farming and animal husbandry and a small number of people work in the city. There is a well-educated person in the village. Talking about the facilities of the village, there is a primary school, panchayat house, public toilet, anganwadi etc. in the village. But the sad thing is that the village does not have paved roads, water tank, sewer line, bus stop etc.

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**OBJECT OF STUDY:**

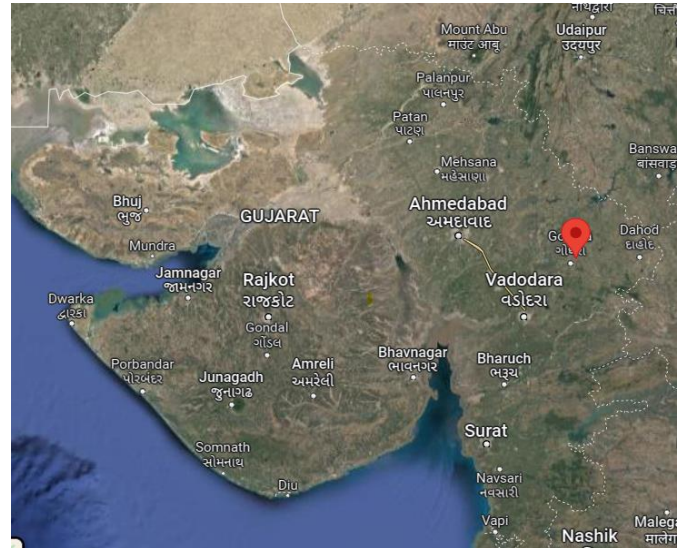
Under this scheme, if the people of the village get the facility of design, it will be very useful for the development of the village as well as for the development of the coming generation. Along with farm production in the village, in all other activities also the village will develop economically as well as socially which is a success for our state and country.

- To understand how people living in rural areas pass the standard of living with modern facilities.
- To see and understand the functioning of village level institutions (Gram Panchayat, Anganwadi, PHC Center, School, Bus Station, Bank, Post Office etc.) in the village.
- To study the water distribution system from the water tank in the village as well as the sewerage system.
- The main occupation of the people in the village is to understand the irrigation system for farming.
- To understand the rural housing industry as well as the animal husbandry system.
- We have collected information for the development of the village with our technically skill.
- Proper drainage facilities, education, health care, roads and transportation are studied first for the development of any village.
- Vishwakarma Yojana is a government assistance project designed to accommodate facilities that are not available in the Allocated Village.
- The design of any infrastructure will help the village financially as well as the country financially.
- In Mordungara village we make design post office, bus stop, proper drainage as well as paved roads with the help of our engineering skills as well as nodal officer which we will complete in these two semesters.
- To provide infrastructural facilities in the village under this scheme and to alleviate unemployment as well as poverty.

**STUDY AREA PROFILE:**

Mordungara is a Village in Godhra Taluka in Panchmahals District of Gujarat State, India. It is located 9 KM towards North from District headquarters Godhra. 11 KM from. 131 KM from State capital Gandhinagar. Mordungara Pin code is 389120. and postal head office is Sant Road. Nasirpur (2 KM), Chanchopa (3 KM), Sampa (3 KM), Vansiya (4 KM), Govindi (4 KM) are the nearby Villages to Mordungara. Mordungara is surrounded by Godhra Taluka towards west, Shehera Taluka towards North,

Morvahadaf Taluka towards East, Kalol Taluka towards South. Mordungara Local Language is Gujarati.



**Fig.1: location of Study area**

**Table 1: Study area profile**

Name of village: Mordungra	Language: Gujarati
Name of Taluka: Godhra	Time zone:IST(UTC+5:30)
Name of District: Panchmahal	Elevation;122 meters. Above Seal level
Name of State: Gujarat, India	Telephone code:02672
PIN Code:389120	

**CONCEPT OF MORDUNGRA VILLAGE AS A SMART VILLAGE**

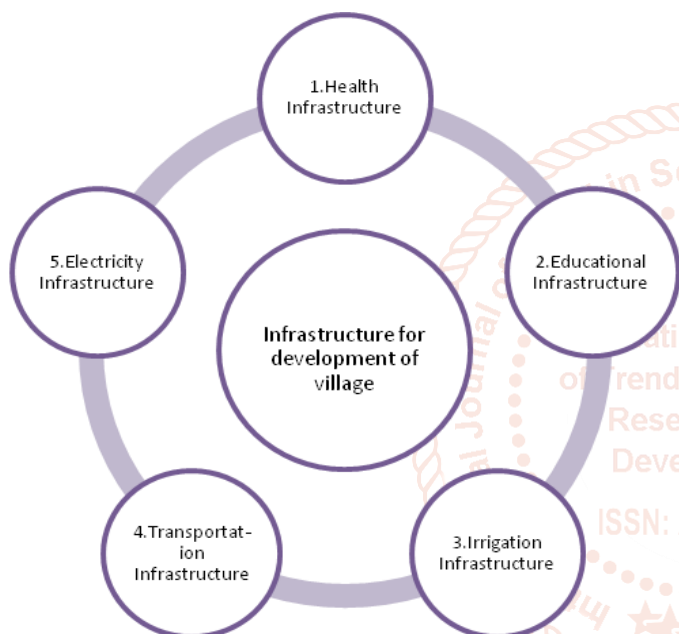
- About 75% of the population in our country lives in rural areas so rural area is the heart of our country. Smart village means taking the village to the highest place by giving many facilities like village to city and developing the village so that the country will also develop. To provide all the facilities of the city to the rural area and to transform the rural area into urban area.
- Hygiene is a very important thing associated with life. Panchayat Bhavan, community hall, library for reading, strong house for villagers, school, Anganwadi and college for the purpose of secondary and higher secondary education in the village. As well as the village needs to have strong roads so that the goods of the farm produce can reach the markets of the farmer cities. In addition, it must have a building for a bank, ATM machine, post office, government hospital as well as private hospital, milk production Mandali. The above-mentioned things are responsible for transforming a village into an ideal village. We know that villages are the heart of our country

and 75% of our country's population lives in villages.

- The main occupation of the people in Mordungara Village is agriculture and most of the people in that village lack roads connecting the small streets of the village.
- There must be a post office for messaging. A source of water must be available for irrigation to be available for agriculture. The village needs proper drainage for good sanitation so that the people of the village do not have to face dirt.

### PLAN FOR VILLAGE DEVELOPMENT

For any village development there are main five concept, if these five plan for village development implement successfully then village can develop very well.



**Fig.2: Plan for Village development**

### IMPLEMENTATION STRATEGY:

- Implementation Strategy is a process by which selected startups can be implemented. If rural areas need to be implemented, people living in rural areas need good roads for their daily needs such as pucca housing, absence of irrigation water for agriculture, inadequate power supply and transportation.
- Not being close to the market can include relocating to another village or city, not getting good medical facilities, not providing a school for education, etc.
- The government has implemented a number of schemes for the construction of rural areas as well as innovative improvements in them, including the following schemes. The following steps need to be taken to make the village a smart village. People in the village should have pucca house, electricity facility should be available so that the

village gets light at night as well as help in running farm machinery, there should be irrigation water system for farming to increase farm production, there should be strong roads for transportation so fast and transport can be done within a short time limit, the village should have primary as well as secondary school, college, as well as Anganwadi for education. The village should have a hospital for good medical treatment.

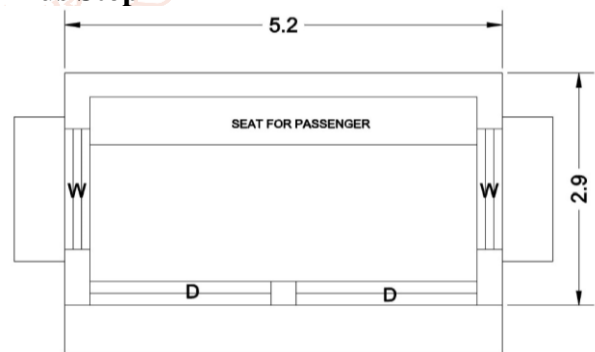
### INFRASTRUCTURE RECOMMENDATION

### DESIGN

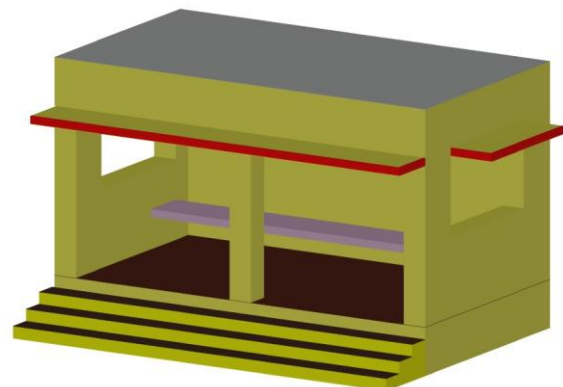
- Villages are the heart of the country and the country's commodity depends on the villages.
- 75% of the population of our country lives in villages and it is associated with agriculture, if our farmer friends are affected by anything, it is affected by our entire country.
- In design proper road in the village as an ideal and prosperous village, water for irrigation, school, hospital, bank, post office, gram panchayat, community hall, water tank, proper drainage system, milk society, market, bus stand, 24x 24 electricity all mentioned above the facility must be for the social as well as economic development of the village.
- The main reason for giving the design is to provide all the facilities available in the city to the villagers and also to develop the village socially and economically.

### DESIGN PROPOSAL

#### 1. Bus Stop



**Plan**



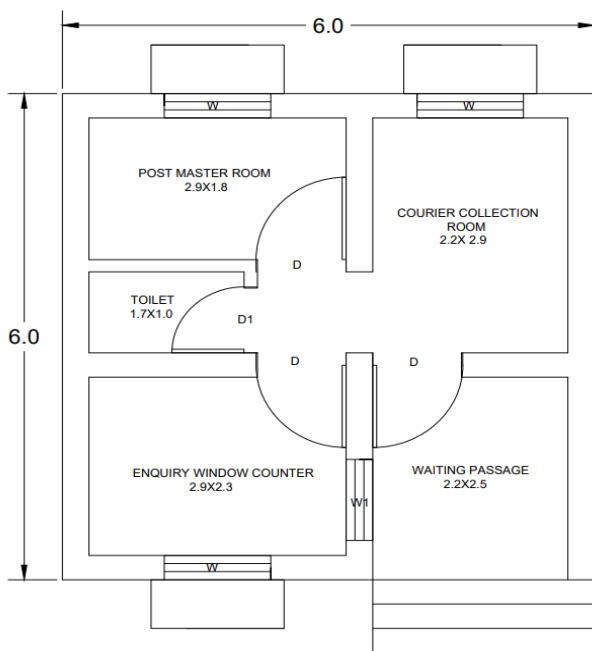
**3D Model**

### Conclusion of Bus Stop Design

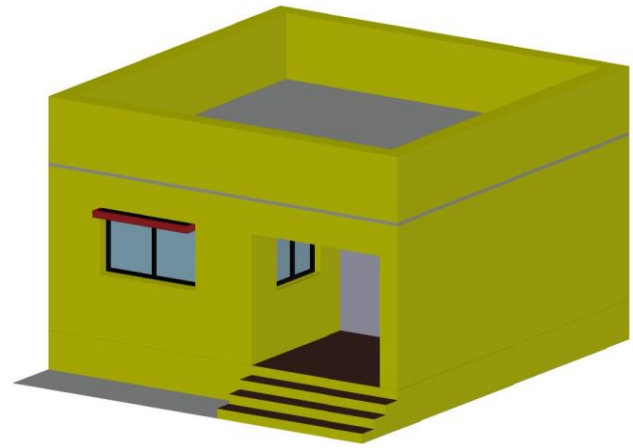
The village has bus facility of Gujarat ST but there is no bus stop for it, the villagers have to face sun, rain and cold while waiting for the bus. So, we designed the bus stop. Land is available for bus stop in the village. We design the bus stop according to the needs of the villagers. The bus stop we have designed has an area of within 15m<sup>2</sup>. The windows required for the bus stop have been completed.

- So, the villagers not face any challenges in weather condition while waiting of bus.
- Therefore, as part of the Vishwakarma project, we have provided a bus stop design to alleviate the problems of the villagers.

### 2. Post Office



**Plan**



**3D Model**

### Conclusion of Post office Design

Post office is required considering the population of the village and the development of the village. Since there is no post office in the village, the people of the village have to cross 9km away from Godhra branch.

- The nearest post office is at Godhra which is 9 km away.
- Therefore, as part of the Vishwakarma project, we suggest the post office to the villagers for their convenience.

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