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The Development of Chanvai Village

Basidali R. Shaikh¹, Pruthvi S. Chhowala², Ravi Patel³

^{1,2,3}Department of Civil engineering Laxmi Institute of Technology, Sarigam, valsad, India

¹180863106009@laxmi.edu.in, ²180863106002@laxmi.edu.in, ³ravipatel.civilengg@gmail.com

Abstract— Vishwakarma yojana Project is one of the best project for the students of Gujarat Technological University. The students who have worked with this project get maximum knowledge because of real village development project. And also very much benefit's for villagers because they will get the facilities. In this project the process of development of the allocated village is done by various surveys and by collecting data from Gram panchayat

Keywords— Village Development, Facilities, Smart village, survey, Design.

I. INTRODUCTION

According to Census 2011 information the location code or village code of Chanvai village is 523290. Chanvai village is located in Valsad Tehsil of Valsad district in Gujarat, India. It is situated 8km away from Valsad, which is both district & sub-district headquarter of Chanvai village. As per 2009 stats, Chanvai village is also a gram panchayat. The total geographical area of village is 931.68 hectares. Chanvai has a total population of 5,834 peoples. There are about 1,321 houses in Chanvai village. Parnera is nearest town to Chanvai which is approximately 3km away.

1.1 Objective

- It works as an overall development of the village.
- Village people will get benefits from it.
- Migration will be reduced if all the smart facilities are available in village.

1.2 Advantages:

- Smart village have significant economic benefits.
- They make transportation more efficient and increase labor productivity.

- Provide good health and safety.
- Increase Life style of village people.
- Consume electricity, water, natural resources

II. METHODOLOGY

1.3 Introduction

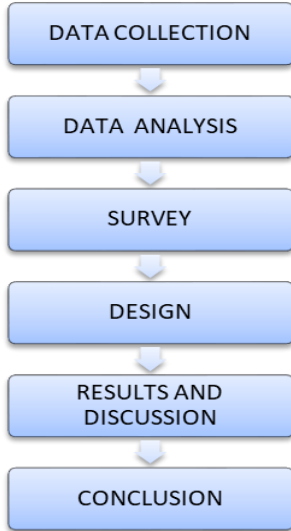
As we all know that the development of the village is much important for the better growth of the village as well as better lifestyle. So, Smart village is said after proper implementation of Smart technologies and after solving problems by modern solutions and techniques. For that after various Survey and data collection we have tried to solve village problems by giving solutions and New facilities.

1.4 Ideas of village development

1. Education facility
2. Transportation facility
3. Electricity or light facility
4. Health facility
5. Agricultural facility
6. Drinking water facility
7. Drainage facility
8. Banking facility

III. CASE STUDY

In the allocated village(Chanvai) the design and estimation provided are Road street Lights, Library building and Bus stop Bus stop. By this the people of the village will take benefits of it. The design of Facilities is finalized after Discussion with Gram Panchat members and Our guide.



Flow chart

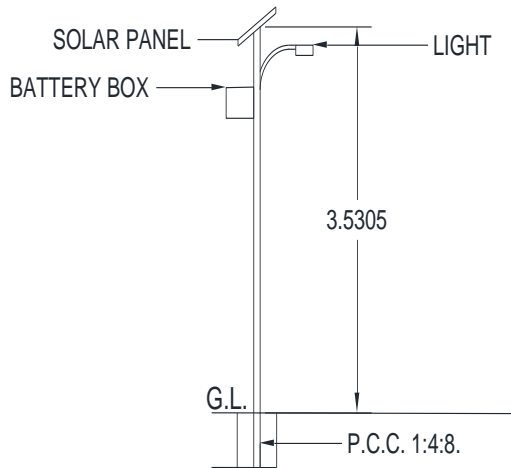
The details of all design is given below.

1. Street lighting system on road

Length of road =600m

Required street light on Road

20nos on 30m interval



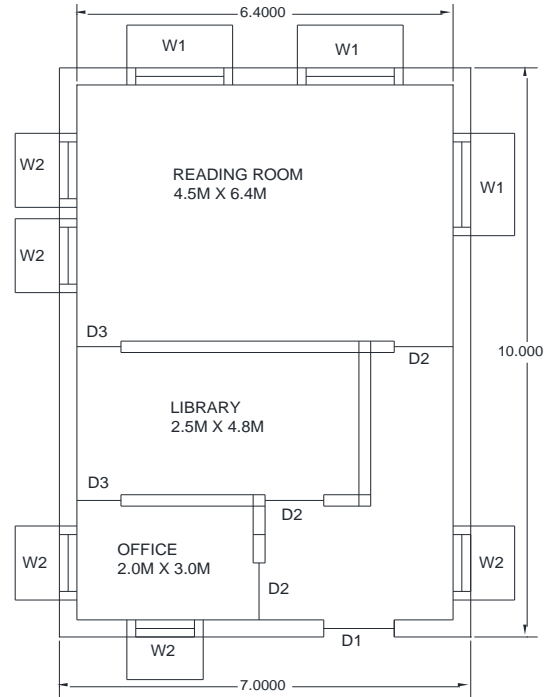
Cost of 1 nos street light with pole 24,000 rs

Total cost of this system is 5,02,600.00rs

2. Library building

Area 10.m x 7.0m

70.00 sq.m

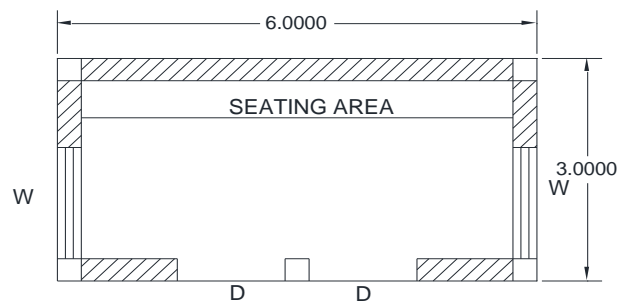


Total estimated cost of library building construction with material is 11,47,486.20rs

3. Bus stop

Area 3.0m x 6.0m

18.00 sq.m



Total maintainance and construction cost is 60,222.00 rs.
 The estimated cost of all design is given in Table below

SR No.	Particular of item	Area	Amount Rs
1	Street Light	600m	5,02,600.00
2	Library Building	70 sq.m	11,47,486.20
3	Bus stop	18 sq.m	60,222.00

IV. RESULTS AND DISCUSSION

The final outcomes for this project is finalized as the design of Facilities i.e. Library, Solar street light system, and Bus stops. This design is finalized after Various surveys and interaction with villagers and Gram panchayat members

V. CONCLUSION

As per vishwakarma yojana phase -08 our project is to develop Chanvai village District :- Valsad. So we carried out different surveys and done Interaction with the people of the village, Also we met with the village Sarpanch, Talati & Gram sevak, of the allocated village and Collected data from the gram panchayat of Chanvai village. The survey was carried out to know the problems facing by the villagers. And to know the facilities which they required. From all this data which we collected from the different sources, We have decided to give Road street lights at some area, Library, Bus stops repair & Maintenance. So, we carried out Planning, Design and also estimation and costing of the structures and also the details are shown through the photos. By this Facilities the village people's life will be easier in their day to Day life.

5.1 Limitations

1. This is long time development process.
2. It's applicable for short & specified area.
3. It's having good planning & more workman ship required process.

5.2 Future scope of project

1. To make villages undependable & provide good healthy environment to people living style.
2. To stop migration of people from village to city.
3. To make developed nation.

Acknowledgement

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REFERENCES

- [1] Census department, Ministry of Home Affairs, Govt. of India www.censusindia.gov.in
- [2] Vishwakarma Yojana & its concept: <http://www.vyojana.gtu.ac.in/>
- [3] Demographic and other data of the village: www.censusindia.gov.in , <https://www.census2011.co.in/>
- [4] For Smart City concept and its visions: <https://www.thsmartcityjournal.com/en/articles/1333-smart-cities-futuristic-vision>
- [5] For various details of Smart, Ideal & Allocated Village: <http://www.onefivenine.com/india/villag/Valsad>
- [6] For different topics related to project: <https://www.saurenergy.com/solar-energy-news/govt-extends-phase-ii-of-atal-jyoti-yojana-till-mar-2021>
- [7] Urban Transportation System Book, Professional Practice and Valuation Book by R. P. Rethaliya, B. N. Dutta & A. S. Kotadia.
- [8] For proper location: <https://www.google.com/maps> <https://www.villagemaps.in/gujarat/chanvai-valsad-523290/>