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Transformation of Rural Village in to a Rurban Village

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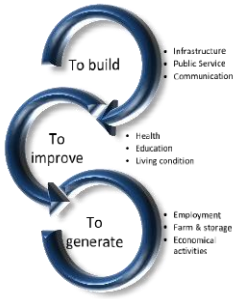
ABSTRACT

Vishwakarma Yojana is one of the initiatives towards Rurbanization by Government of Gujarat, which was allotted as a real time situation type project provide to GTU. The students and Faculty Members meet all the citizen of a village, survey the existing facilities. Then they re-imagine and design the whole of the infrastructure of the village. The students use their engineering skills to prepare detailed project reports for the infra-structure as a part of their final year project work. By this project Students are experience a real work and able apply own technical knowledge on any real problem. This entails hard work, many students' visits to the village and do survey on his particular village. Our aim is to design new infrastructure facilities or improve the existing ones. We will be proposing design of basic physical, social or sustainable infrastructure such as biogas plant, sewerage, public library, hospital, irrigation facilities, improving road conditions, etc. and road networks and redesign the housing conditions as per requirement.

Keywords: Vishwakarma Yojana, Rurbanization, Infrastructure development, Provision of public amenities

I. INTRODUCTION

Vishwakarma Yojana would provide "Design to Delivery" solution for development of villages in 'Rurban' areas. Rural Soul + Urban Amenities=R-Urban Town. "Developing village with a 'rural soul' but with all urban amenities that a city may have" Aim of the project is to provide urban amenities in



rural areas while maintaining the rural soul. This will help in developing villages in sustainable manner, reduce migration from villages and prevent the cities from the urban pressure.

II. STUDY JUSTIFICATION

The developmental work in villages that could under taken as per the need of the village in particular includes, Physical infrastructure facilities (Water, Drainage, Road, Electricity, Solid waste Management, Storm Water Network, Telecommunication & other), Social infrastructure facilities (Education, Health, Sanitation) Socio- Cultural Facilities (Community Hall, Library, Recreation Facilities & other) and Sustainable Infrastructures (Rain water harvesting, Biogas plant, Eco Toilets, Solar Street lights & other) for effective development of Villages.

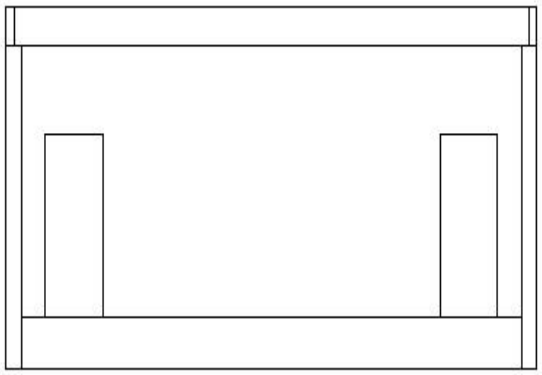
"Vishwakarma Yojana" has provided the platform for real world experience to engineering students and simultaneously apply their technical knowledge in the rural infrastructure development.

III. RESULTS AND DISCUSSION

Design Proposals with the Section, Elevation, Measurement and Costing

Social Design " Public Toilet "

In Kanzat village, the public toilet is not available there. So we have designed the public toilet for Kanzat village. There is a need to be constructed a Public Toilet for those dwellers who do the open defecation. Although it plays a significant role from the point of view of SBA.



ELEVATION

PUBLIC LATERIN BLOCK:-

sr. no.		switch board		plug point	remarks
	location	s.b.	height		
1	male toilet	1	4.5 ft.	1	individual switch to 1 tube light
3	w.c.	3	4.5 ft	-	different switch for different cfl
4	female toilet	2	4.5 ft	1	individual switch to 1 tube light
6	w.c.	2	4.5 ft	-	different switch for different cfl
7	care taker	1	4.5 ft	1	

Table I (Estimate)

IV.CONCLUSION

In Vishwakarma Yojana project, we are providing physical, social and socio-cultural infrastructure, renewable energy sources for development of the village. This project is based on the improvement of the existing condition of the village and also provide future scope of the development. It improves the living standard of the village people.

Based on the collected data of the village and survey work, we have proposed designs for further improvement in the Kanzat village. These proposals will help to improve lifestyle of people.

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