

Sustainable Civil Engineering

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Feasibility Study on Smart Village

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The study intended to address the major issues faced by the community of farmers, identify the Smart Village indicators and put forward a strategic plan for the Smart Village implementation. The study data was collected through a survey, focus group interviews and documents. The quantitative and qualitative analysis of the data revealed that the major issues faced by the farmers in this agriculture community are limited involvement of human resources in agricultural activities, small land holding and limited knowledge of using technologies and innovative techniques to enhance the agricultural production and processing. Other issues are relevant to Micro Small Medium Entrepreneurs (SMMEs) include lack of raw materials and crops, lack of machinery, limited knowledge and lack of guidance and exposure to networking on how to ensure mass production and healthy marketing competition at the regional and global levels. Thus, the study emphasizes the importance of meeting the community's needs and offers several useful recommendations. Rural development implies both the economic betterment of people as well as greater social transformation. 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, Community Hall, Library, Recreation Facilities & other) and renewable energy (Rain water harvesting, Biogas plant, Solar Street lights & Other) for Sustainable development which can help in developing villages in sustainable manner, reduce migration from villages and prevent the cities from the urban pressure. In conclusion, by incorporating the concept of Smart Village, the current study considers the potential Smart Village as an innovative means of improving rural people's life and it introduces a strategic implementation of the Smart Village project in three phases;

- I. Social empowerment,
- II. Developing the Smart Village infrastructure and
- III. Economic empowerment.

Biography

I have been working as an Assistant Professor in Department of civil Engineering, UVPCE, Ganpat University, Kherva –Mehsana since, June 2012. I have completed Master of Engineering in Transportation Engineering at L. D. College of Engineering, Ahmedabad, Gujarat, India in 2012. I am willing to attend this conference because it is very much related to my specialized subjects, like Basic Transportation System, Transportation Engineering, Highway Engineering and Traffic Engineering. I am guiding students at undergraduate level in their projects related to said subjects. I have already provided guidance to more than fifty students in their projects like Inland Waterway Transportation, Road safety audit, Traffic management system by various methods, Feasibility study on Pedestrian and many more. I have published 08 research papers in various conferences/ journals and also attended the conferences in India. Ganpat University has awarded the certificate for Contributing Significant work for the college on date 14th March 2015.

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