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STUDY AND REURBANIZATION FOR VALAD VILLAGE USING TACHEOECONOMICAL SURVEY, GANDHINAGAR DISTRICT, GUJARAT

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Abstract: Today world is growing fast, thus facilities, living standards are increasing very much so in development of urban area villages are stay behind to give attention for development. We will give planning proposal of Physical Infrastructure, Social Infrastructure & Socio-Cultural Infrastructure facilities with method of giving Redesigning, Reimaging, Repair & maintenance, and Sustainable planning for basic need of village like government buildings, schools, health facilities, water supply and sanitation, waste disposal management system, electricity, road networks, irrigation facilities, Recreational Garden and Playground, Sports zone, Biogas, Vermi Composed plant, Solar energy utilization and other non-conversation energy sources utilization etc. All this done consulting with villagers, local revenue authorities, Sarpanch, TDO and DDO for future needs of the village keeping in mind the need of today's, future targeted population growth, growth of surrounding town or taluka places etc.

Keywords: Ideal Village Surveys, Techno-Economic Survey of Village, Data Collection, list out existing Facilities, Gap analysis, need of amenities, Making Reurbanization by Redesigning, Reimagination, Repair & Maintaining, Sustainable Planning, Give Economical Design planning proposal.



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INTRODUCTION

The research is mainly based on a development of village. The development is done on an infrastructure facility and social development. The aim of project is to provide sustainable structure for the village. We have to provide basic amenities like water supply, electric supply, and stable shade for living. Have to provide road network and the drainage network as well. To development of village compare to the city area in the basic facility to needed for people and their amenities and to study whole village. How can development the basic needed and their requirement. Find out of the village data and survey of the whole village and improving the growth of village. It should development the pond, gram-panchayat, aanganwadi, road, drainage, school, hospital, etc.

➤ VILLAGE DEVELOPMENT PLAN AND OBJECTIVE

1. CREATION OF INFRASTRUCTURE: To provide connectivity, civic and social infrastructure along with provision of alternative Economy generation is the key pillars that the concept hinges on.
2. BASIC PHYSICAL INFRASTRUCTURE: To provide Water Supply, Transport, Sewerage and Solid Waste Management should be the priority focus and be provided. To provide internal roads within village settlement, Efficient Mass Transportation systems to improve connectivity between urban and rural areas, Public transportation facilities that need to be developed like bus stops, transport depot etc.
3. BASIC SOCIAL INFRASTRUCTURE: To provide Health and Education facilities should be provided and ensure proper delivery of facilities to village dwellers. Promote integrated development of rural areas with provision of quality housing, better connectivity, employment opportunities and supporting physical and social infrastructure. Reduce migration from rural to urban areas due to lack of basic services and sufficient economic activities in rural areas.
4. IDENTIFICATION OF SANITATION FACILITIES THAT NEED IMPROVEMENT: To provide sewerage and drainage line for household connection, door to door solid waste collection & dumping facilities Electricity connections like street lighting that is energy efficient and eco-friendly Refurbishing of village lakes, water tanks and wells, construction of rain water harvesting structures for sustainable Development.

PROBLEM STATEMENT

- In this village there is no any agricultural cooperative society.
- Small scale industries are also not available in this village.
- Absence of Recreation centre is also one of the major problem for people.
- There is no public library available.
- Public garden and park is also not available.

SCOPE AND OBJECTIVE

- Due to lack of facilities in rural area it causes migration to urban area so it is need to provide better facilities.
- Infrastructure development in rural area and connect all with social and civil facilities.
- Reduce migration from rural to urban area due to sufficient facilities are not available.
- Provide better transportation & inter-connectivity and employment scope in village.
- Provide better sanitation and improve of need of facilities like solid waste collection system and liquid waste disposing system.
- Electricity connections like street lighting that is energy efficient and ecofriendly.

STUDY AREA

➤ **Brief History**

Valad is a Village in Kalol Taluka in Gandhinagar District of Gujarat State, India. It is located 15 KM towards west from District headquarters Gandhinagar. Valad Pin code is 382350 and postal head office is Valad. Parbhupura(3km), Fulpura(4km), Karai(4km), Limbadiya(4km), Pirojpur(4km) are the nearby Villages to Valad. Valad is surrounded by Gandhinagar Taluka towards North, and Ahmadabad Taluka towards South. Gandhinagar, Ahmedabad are the nearby Cities to Pansar. This Place is in the border of the Gandhinagar District and Ahmedabad District.

➤ **Economic profile:**

The population of the village is above 7500. Most people are engaged in the occupation of farming and agriculture. While the rest have government and private jobs and labouring work.

Mainly the occupation of village is agriculture and the most of people are farmer. Second occupation is dairy farming which is the main occupation and economy of village is based on farming. Nowadays education gets growth and the people is now being slight educated, around 40% of people are doing jobs and other business.

Now days the people get educated and the farming is decreasing gradually and other business gets growth. But we have to provide more information of agriculture use because the village and the country growth are mainly based on agriculture. If people being educated and get smarter than we should use that smartness in agriculture so we can provide more growth of village and make people economically strong.

1)

➤ Village location: -



➤ REGIONAL SETTING AND LINKING OF VILLAGE

Valad grampanchayt is in the village. The village is connected to nearable village like Pirojpur, Limbadiya, karai, Fulpura, Parbhupura by road. And Railway line near to the village within 10 km in Dabhoda, Gandhinagar.

Name of Village:	VALAD
Name of Taluka, District :	Gandhinagar
Name of State :	Gujarat
Respondent Name: (Sarpanch/ Panchayat Member/ Teacher/ Gram Sevak/ Aaganwadi worker/Village dweller)	Sarpanch :- Hothaji Kalaji Thakor

METHODOLOGY

Gujarat Technological University under which project of Vishwakarma Yojana was given. At the first stage we understand the concept of Vishwakarma Yojana. Then after VALAD village was allotted to us. In first visit of valad village some basic information and essential data were collected by us. some photographs were also taken during the visit. Then we will try to identify

the problem and give appropriate solution regarding it. Social, socio-economical, physical information and data were collected. Based on collected data GAP analysis was carried out to know the deficiencies in existing infrastructure. Based on the infrastructural deficiencies the suggestions and recommendations was done.

DATA ANALYSIS

- The general data is collect by the observation of village.
- By visiting village
- By techno economic survey by questioning to villagers
- By taking photograph of existing situation.

Facilities	Planning Commission/UDPI Norms	Village Name: VALAD		
		Population: Existing	Required per Norms	7768 as Gap
Social Infrastructure Facilities				
Education				
Anganwadi	Each or Per 2500 population	4	0	4
Primary School	Each Per 2500 population	4	3	1
Secondary School	Per 7,500 population	1	0	1
Higher Secondary School	Per 15,000 Population	2	0	2
College	Per 125,000 Population	0	0	0
Tech. Training Institute	Per 100000 Population	0	0	0
Agriculture Research Centre	Per 100000 Population	0	0	0
Health Facility				
Govt/Panchyat Dispensary or Sub PHC or Health Centre	Each Village	1	0	1
PHC & CHC	Per 20,000 population	0	0	0
Child Welfare and Maternity Home	Per 10,000 population	0	1	-1
Hospital	Per 100000 Population			0

Public Latrines	1 for 50 families (if toilet is not there in home, especially for slum pockets & kutcha house)			0
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RESULT AND DISCUSSION

We have visited Valad village near Gandhinagar district, Gujarat. There were various facilities like transportation facilities, drainage facilities, sanitation facilities, irrigation facilities, post-office building, panchayat house. From the tacheo-economical survey of the valad village, we found out the gap analysis of the village and certain problems like lacking of PHC. So we suggested the probable design of primary health centre.

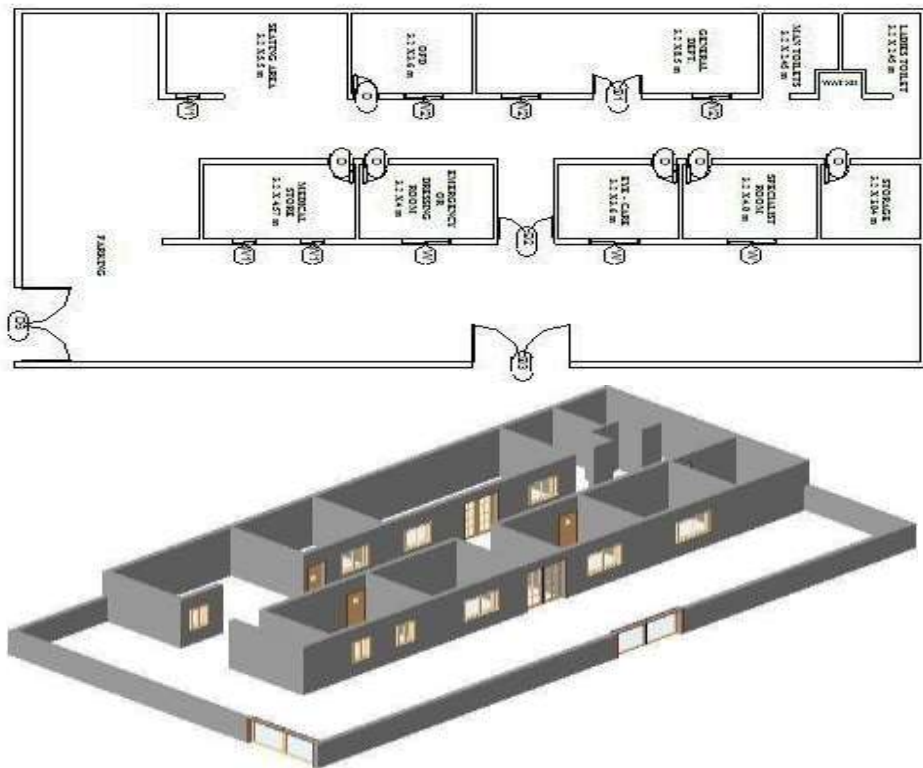


Fig. 1: Design of Primary Health Centre

COLCLUSION

- From this project we observed that there are many problems in villagers. From this research we found new simple easy and inexpensive facilities for the villages like dry water toilet, rain water harvesting, free cooking gas from biogas plant, 24- hour electricity, clean water etc. From this research we can use many sustainable facilities instated of different facilities for

same purpose. Throughout our research, work on this that how to make village as an ideal village in mention methodology and how to do work systematically so we can make any village as an ideal village.

REFERENCES

1. ALLEN, C., BLANDY S. (2004): The future of city centre living: implications for urban policy. Centre for Regional Economic and Social Research, Sheffield Hallam University
2. ATKINSON, R. (2003): Introduction: misunderstood saviour or vengeful wrecker? The many meanings and problems of gentrification. *Urban Studies*, 40(12): 2343–2350
3. BIJAK, J., KUPISZEWSKA, D., KUPISZEWSKI, M. (2008): Replacement migration revisited: Simulations of the effects of selected population and labour market strategies for the aging Europe, 2002–2052. *Population Research and Policy Review*, 27(3): 321–342.
4. CASSIERS, T., KESTELOOT, C. (2012): Socio-spatial inequalities and social cohesion in European cities. *Urban Studies*, 49(9): 1909–1924
5. DANDOLOVA, I. (2003): Deurbanisation in Bulgaria: Challenges of transition and sustainable development. In: Eckardt, F., Hassenpflug, D. [eds.]: *Consumption and the post-industrial city* (pp. 127–140). Frankfurt/Main, Peter Lang.
6. HAASE, A., RINK, D. (2015): Inner-city transformation between reurbanisation and gentrification: Leipzig, eastern Germany. *Geografie*, 120(2): 226–250.
7. Dhaval M Patel, V M Patel, Abhijitsinh Parmar, Tsunami Evacuation System For Western Coast Of Gujarat In Porbandar City, ISER, 11th International Conference, New York, USA, 5th June 2015, ISBN: 978-93-85832-49-9. 15-19.
8. Dhaval M Patel, Abhijitsinh Parmar, Avadhkumar Radadiya, Mihirkumar Sheladia, Smit Sardhara, Tsunami Evacuation System For Western Coast Of Gujarat In Mandvi City, International Conference, Dubai 1st and 2nd January, 2017, Published In International Journal Of Management And Applied Science, 2017, 23-27.
9. Dhaval M Patel, Kushal Shah, Patel Yagnik, Radadiya Avadh, Smit Sardhara, Literature Review On Tsunami Evacuation System On Coast Of Diu, International Journal For Innovative Research In Science & Technology, 2017, 108-114
10. Dhaval M. Patel, V.M. Patel, Abhijitsinh Parmar, Bhupesh Katariya, Gautam Dadhich, Tsunami Evacuation System For Western Coast Of Gujarat In Okha City, International Conference On Multidisciplinary Research & Practice, Icmrp-2014, 411-414
11. Abhijitsinh Parmar, Dhaval Patel, Dron Chaudhary., Utilization Of Pond Fly Ash As A Partial Replacement In Fine Aggregate With Using Fine Fly Ash And Alccofine In HSC-Hards Concrete Properties, Issue 3 | Dec 2014, 74-77.
12. Abhijitsinh Parmar, Dhaval Patel, Experimental Study On High Performance Concrete By Using Alccofine And Fly Ash - Fresh Concrete Properties, International Journal Of Pure And Applied Research In Engineering And Technology, 2014, 43-51.
13. Abhijitsinh Parmar, Dhaval M Patel,. Experimental Study On High Performance Concrete By Using Alccofine And Fly Ash - Hard Concrete Properties, International Journal Of Engineering Research & Technology, 2013, 3363-3366.

Website Reference

1. <http://ciiblog.in/new/wpcontent/uploads/freshizer>
2. http://whc.unesco.org/uploads/thumbs/site_1349_0002-750-0-20100730101627.jpg
3. http://wiienviis.nic.in/WriteReadData/UserFiles/image/PAs_Map_Database/images/India-Map.jpg, <https://www.indianholiday.com/pictures/travelguide/other-images/map-80.jpeg>,
<https://www.google.co.in/maps/place/Dantali,+Gujarat>
4. <https://www.sswm.info>, <https://i0.wp.com/www.thewatertreatments.com>
5. vishwakarma yojana