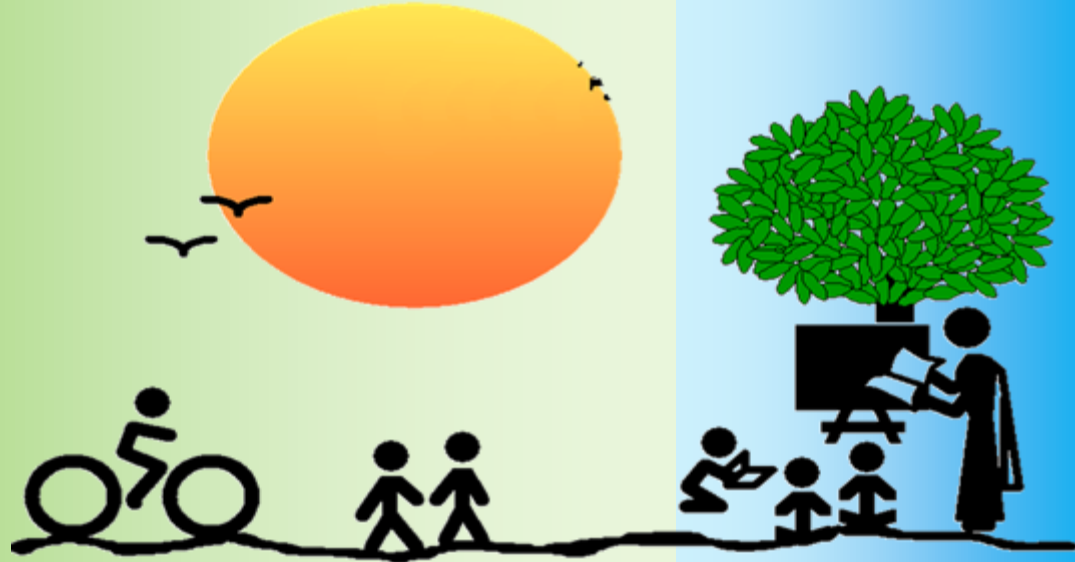


A Report
on
Orientation Program of



Vishwakarma Yojna:

An approach towards Rurbanisation

at VVP College of Engineering & Technology, Rajkot

12th August, 2013

Presented By: Dr Indrajit Patel and Ms Jagruti Shah



Gujarat Technological University,

Ahmedabad, Gujarat

Concept by Dr. Akshai Agrawal,
Hon'ble Vice Chancellor, GTU:



Urban settlement is increased in 2011 which is the only reason to develop rural area that preserve and nurture the essence of rural community life without compromising on facilities perceived to be essentially urban in nature; thus creating altered 'Rurban' forms. The project would provide "Design to Delivery" solution for development of villages in 'Rurban' areas.

The developmental work in villages that could undertaken as per the need of the village in particular includes Physical Infrastructure facilities (Water, Drainage, Road, electricity, Solid waste Management), Social Infrastructure Facilities (Health & Education), Socio-Cultural Facilities (Community Hall, Recreation Facilities, Lake Development & Other) and Renewable Energy Sources (Rain water Harvesting, Solar lights, Bio-gas Plant & Other).

Gujarat Technological University organized a one day Orientation Programme of Vishwakarma Yojana: Phase-II held on 12th August, 2013 at 12:00 noon at the Auditorium hall, VVP College of Engineering & Technology, Rajkot.

Function was chaired by Dr. Chirag Vibhakar, I/C Principal, VVP College of Engineering & Technology, Rajkot, Prof. Raghuvaran Naidu, Nodal Officer and Ms. Jagruti Shah, Project Coordinator, Vishwakarma Yojana, GTU. 13 Nodal officers from GP-Rajkot, GP-Junagadh, JNM-Amreli, RKU-Rajkot, LEC- Morbi, BPTI-Bhavnagar, SSEC-Bhavnagar, GEC- Bhavnagar, GEC- Bhuj, GP- Bhuj, GP-Porbandar and 112 Students from respective college attended Orientation Program.

Vishwakarma Yojna is now in Second Phase to introduce Project and Scope of work of Students & nodal officers, GTU has planned to organize orientation program in different zone coordinated by Mrs. Jagruti Shah, Project Coordinator, Vishwakarma Yojana with support from GTU and participating institutes. Main objective of this program was to provide all the information of Vishwakarma Yojana, Details of Techno-Economic Survey and other necessary details of Project. Orientation program was organized for villages included in Rajkot, Junagadh, Amreli, Bhavnagar, Kutch, Porbandar and Jamnagar.

As our Indian Tradition says that for the success of program it was initiated with Prayer. Prof. Sagar Virani- Nodal Officer from respective Institute welcomed all invitees on behalf of VVP College of Engineering & Technology, Rajkot. Vishwakarma Yojna is challenging project for students to get live experience with study. He also mentioned that the Rural area covers the larger portion of our country but contributes less in GDP due to unemployment, lacuna of infrastructure facilities, less facilities for farming and less opportunities for Agro base activities. By this project student can help for better rural planning and management. He requested Dr Chirag Vibhakar, I/C Principal, VVP college to share his view on this occasion.

Dr Chirag Vibhakar addressed participants with the concept of hon'ble vice chancellor Dr Akshay Agrawal that providing all urban amenities that city may have but keeping the rural soul in it. He acknowledged efforts, support and motivation of Dr Akshay Agrawal, Hon'ble vice chancellor for making GTU innovative with such kind of live study projects. He encouraged students by saying that service to development of villages will be best contribution to country, community and culture. He mentioned that as young technocrat, it's our responsibility to build strong Nation.

Prayer by Students of
VVP College, Rajkot



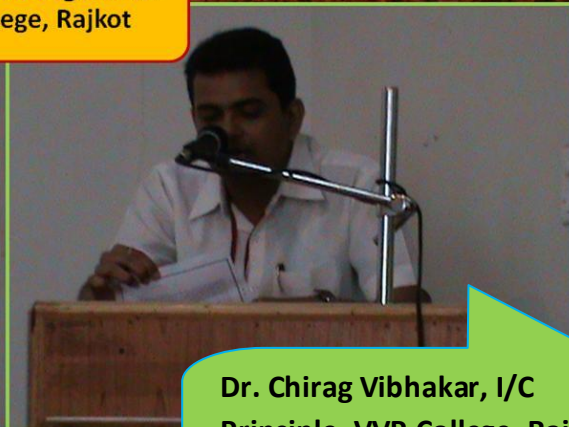
Session Chaired by
Dr. Chirag Vibhakar, I/C Principle
Mrs. Jagruti Shah, Project Coordinator
Prof. Raghuvaran Naidu, Nodal Officer



Orientation Program at
VVP College, Rajkot



Welcomed by
Prof. Sagar Virani, Nodal
Officer, VVP College, Rajkot



Dr. Chirag Vibhakar, I/C
Principle, VVP College, Rajkot
has shared his view on
Vishwakarma Yojana

Technical Session: Ms Jagruti took over for session and welcomed all the participants on behalf of GTU. She briefed students for concept of Rural and Urban. She shared broader view of Rural & Urban India:

Rural India

- Mass migration to urban India
- Malnutrition & starvation
- Illiteracy & widespread unemployment or under employment

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- Inadequate health facilities & basic infrastructure

Urban India:

- Growth rate: Expected to double by 2021
- Top heavy growth: Faster in Class I cities (> 1 million)
- Asymmetric distribution: > 70% in less than 10% towns
- Socio-economic status: 25.7% below poverty line
- Proliferation of slums in Urban Areas – limited low cost/ affordable housing options

She asked students about their concept for developed Villages. She gave some glimpse of ideal villages of Gujarat. She said as per National Sample Survey Organization (NSSO) defines 'rural' as follows: An area with a population density of up to 400 per square kilometer, Villages with clear surveyed boundaries but no municipal board, A minimum of 75% of male working population involved in agriculture and allied activities. She explained overall concept of Vishwakarma Yojana. She has also briefed for the work done in Phase-I by Students of respective Institutes. Aim of the project is to provide urban amenities in rural areas and 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.

She also described all the objectives to students such as developmental work in villages that could undertaken 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.

She explained in detail over all action plan and methodology of work by Degree & Diploma students. She also discussed all the issues faced by students in Phase-I and given

solution for the same. She said rural development can be richer and more meaningful only through the participation of clientele of development. Just as implementation is the touchstone for planning, people's participation is the centre-piece in rural development. People's participation is one of the foremost pre-requisites of development process both from procedural and philosophical perspectives. Mrs. Jagruti Shah explained roadmap of work to be done by students in each semester. She also explained work separately chapter wise.

Students participants of Respective Institutes in Orientation Program



Orientation Program at VVP College, Rajkot



Nodal Officers from Respective Institutes in Orientation Program

Technical Session by Mrs. Jagruti Shah, Project Coordinator, VY, GTU



Part-I (Odd Semester) Includes: (IDP-I)

Data Collection & Recommendation Phase

- I. Data Collection- Techno economic survey
- II. Data Presentation
- III. Visit of Ideal Village of Respective District
- IV. Gap Analysis
- V. Recommendation & Suggestions for Village Development

She gave guidance to all the participants for techno-economic survey work. She explicated Survey form for Phase-II and defined all the parameter of Survey which is uploaded on GTU website.

Part-II (Even Semester) Includes: (IDP-II)

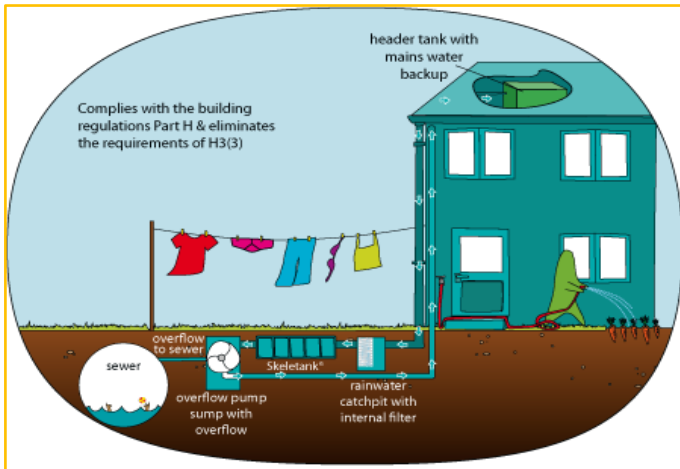
Planning & Designing Phase

- I. Design Proposals for overall development of Village includes Physical and Social Infrastructures
- II. Design Proposals for Sustainable Planning includes Non conventional energy Sources
- III. Conclusion

She shared various developments in villages of Gujarat with live case studies such as for the waste water network, model of village Khintla, Surendranagar for Low cost network and resource utilization. She gave brief details of Root Zone Technology for Liquid waste Management. For Solid waste management, TAPI-Model, adoption will be the best solution for economic boost up and clean village philosophy. She explained concept of village sustainable system with all these examples. She covered all the amenities from grass root level to developed town level for village development. She presented concept of Low cost Housing for better housing condition for village dwellers. She shared various guidelines and norms for physical as well as social infrastructure facilities. She also

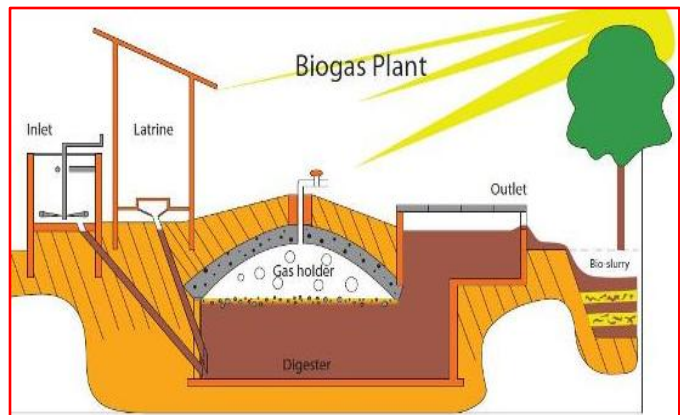
addressed students for different workshop and training Program will be planned to help students for all technical guidance by GTU.

She said that all the proposal are designed by keeping the following parameters in mind



like built and landscape into a cohesive whole, Water charging / reuse as integral part of the design process, Major thrust into local / regional species, Low energy intensive, Low maintenance , Creation of sustainable environments, In tune with Sun / wind / water / soil, Introduce alternate energy sources, Generate an effective reuse & recharging the water

basin, Introduce separate systems of distribution network for raw water and drinking water, Drainage to be treated with root zone technology and reuse the treated water for Sustainable Development. At the end of presentation, Students asked their various questions and solutions were



given for the same. Discussion was very much helpful to students and nodal officers to fill technical gap as well as to share their view.

Prof. Raghuvaran Naidu, Nodal Officer thanked Gujarat Technological University for providing them such a prestigious opportunity which will helpful to students for getting real world experience. He thanked Hon'ble VC for their efforts to make GTU more innovative. He thanked Mrs. Jagruti Shah for their guidance to Students.

At the end, Mrs. Jagruti Shah has highly indented to Gujarat Technological University, Ahemdabad for providing us such opportunity to work under Vishwakarma Yojna to get real work experience and applying our technical knowledge in the development of Villages. She expressed his deep sense of gratitude to Dr. Akshai Agrawal, Hon'ble Vice Chancellor, Gujarat Technological University-Ahemdabad, for his encouragement and support during project work, Registrar-GTU, all students, Nodal Officer, Principal and staff of VVP College of Enginerring & Technology, Rajkot and Team of GTU for making orientation program success for Vishwakarma Yojna.

Program was ended with National Anthem.

On behalf of Vishwakarma Yojna, G TU, Ahemdabad

Dr. Indrajit Patel

Mrs. Jagruti Shah

Ms Usha Banker

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