

A REPORT ON
WORLD HABITAT DAY

5th October, 2020

Celebrated by

The Institution of Engineers (India)

Vallabh Vidyanagar Local Centre

Hosted by



Department of Civil Engineering
G H Patel College of Engineering & Technology
Vallabh Vidyanagar

World Habitat Day 2020

World Habitat Day is observed on the first Monday of October every year to raise awareness about our basic rights like shelter, food, and clothing and also about our responsibilities towards improving our neighbourhoods for a better future and well being. It was declared in 1985 by the United Nations General Assembly. This year, WHD 2020 theme is: 'Housing for all: A better urban future'. Housing is a basic human right. In the present scenario where social distancing and to remain at safe distance and maintaining good hygiene practice is just impossible without adequate housing. People living in slum areas in populated countries are going to be the victims of the pandemic COVID 19. In the present pandemic situation, WHD 2020 will share information to promote the idea of housing, shelter, and slum upgrading as most imperative functions of cities in meeting resident's needs. The pandemic has created an awareness that cities and local governments around the world can move towards eliminating inequalities and poverty levels and providing access to basic amenities like shelter, food water for all. The Institution of Engineers (India), Vallabh Vidyanagar Local Centre celebrated WHD 2020 on 5th October 2020 by organizing expert lectures and Poster making competition for students. The program was hosted by The Department of Civil Engineering of G H Patel College of Engineering and Technology, Vallabh Vidyanagar (A constituent college of Charutar Vidya Mandal University).

The program was inaugurated by Dr.Rakesh D Patel, (Hon. Chairman, IE(I), VVLC), Dr.Kaushik Nath, Professor & Head, Chemical Engineering Department GCET and Executive member, IE(I) VVLC, Ms.Rejeet Mathews, Director, Urban Development, World Resources Institute, India, Prof. Rajan Rawal, CRDF Professor, CEPT University, Ahmedabad, Dr. Khadeeja Priyan, Professor & Head, Civil Engineering Department GCET, Dr. Jatin Patel, Associate Professor, Electrical Engineering Department GCET and Executive member, IE(I) VVLC and Dr.Snehal Popli, Assistant Professor, Civil Engineering Department.

Dr.Kaushik Nath started the celebration of the day by welcoming the experts, participants and explained about the importance of the day.

Dr. Rakesh D Patel, Hon. Chairman IE(I) has given information about the establishment and working of The Institution of Engineers (India). He has highlighted various activities carried out by IE(I), VVLC.

Dr.Khadeeja Priyan highlighted the importance of WHD 2020 and gave the program details with the introduction of the speakers Ms. Rejeet Mathews and Prof. Rajan Rawal. World Habitat Day celebration of the previous years by IE(I) VVLC, were shown by a video to the participants.

The first speaker Ms.Rejeet Mathews delivered the talk on the Topic: Housing India's Urban Poor: Challenges, Opportunities & Way Forward. She has given a lot of insight about the importance of affordable homes and its relevance and housing policies available in India currently. She discussed the problems of common man in purchasing the house correlated with current pandemic scenario in India. Ms.Rejeet gave the information with facts and figures about PMAY (Pradhan Mantry Awas Yojana). She explained the relevance of the topic with few case studies. The lecture was very informative for all the participants.

Prof. Rajan Rawal delivered the talk on the topic: ECO Niwas Samhita and Thermal comfort in Affordable Housing. Prof. Rawal discussed about Indo-Swiss Building Energy Efficiency Project (BEEP). He shared the information about fast growth in building stock and electricity consumption. He explained various codes such as Prescriptive code, Trade-off code, Performance code, and outcome-based code. He discussed the key elements to be considered in modern building such as reducing heat gain, increasing natural ventilation and day light in residential buildings. Prof. Rawal demonstrated Residential Envelop Heat Transmittance (RETV) formula for calculating net heat gain.

Prof. Rajan explained the method of thermal comfort modelling and environment monitoring systems. Sir discussed various case studies to

compare the energy utilization in houses. The lecture was really beneficial and all the participants. Both the lectures were well appreciated by all the participants. It opened up new research areas in engineering as COVID 19 continues to spread and people have been told to stay at home where thermal comfort is essential. Dr. Snehal Popli gave the concluding remarks.

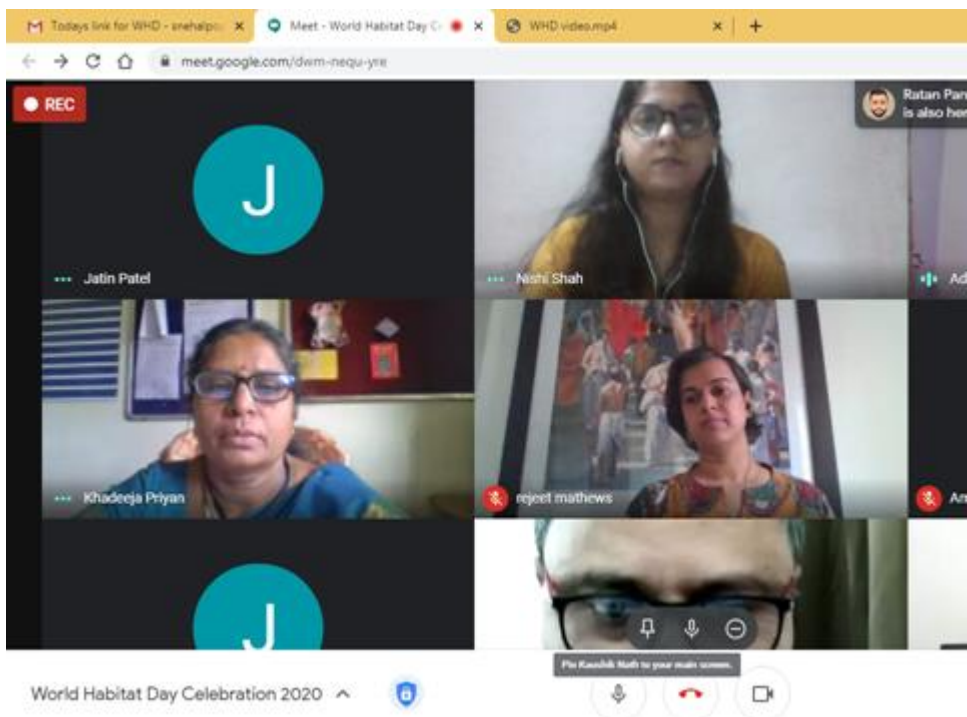
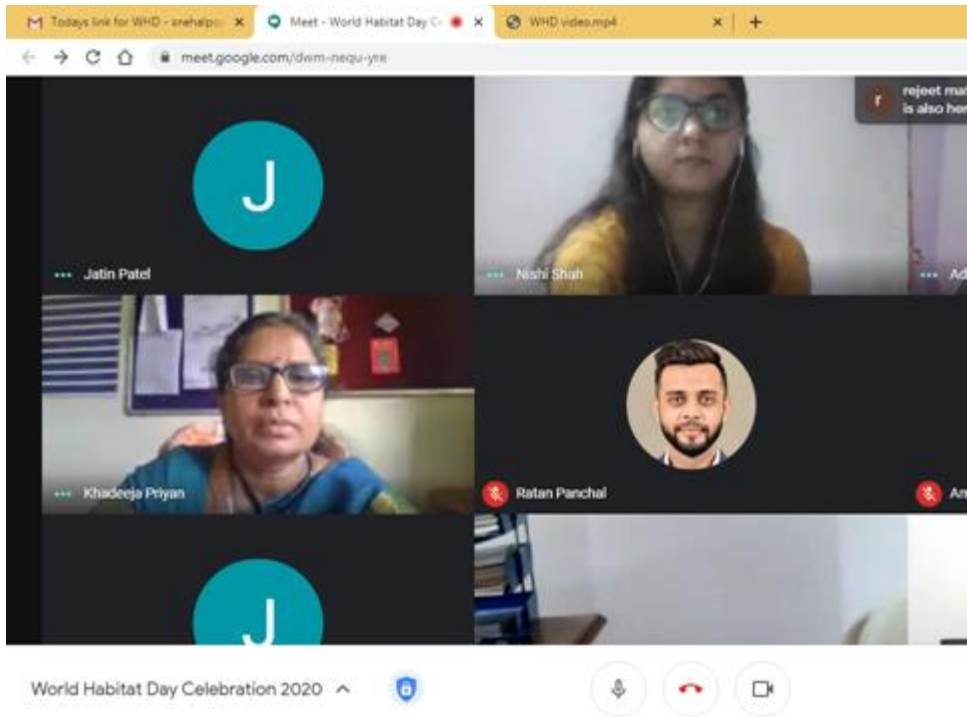
The topic of Poster making competition was “India towards sustainability – An approach for town planning”. More than 15 students submitted the poster on this theme, out of which 6 posters were selected for presentation. The winners were selected by keeping various points in to consideration such as creativity, aesthetics of display, visual impact, and originality of work and content of the poster.

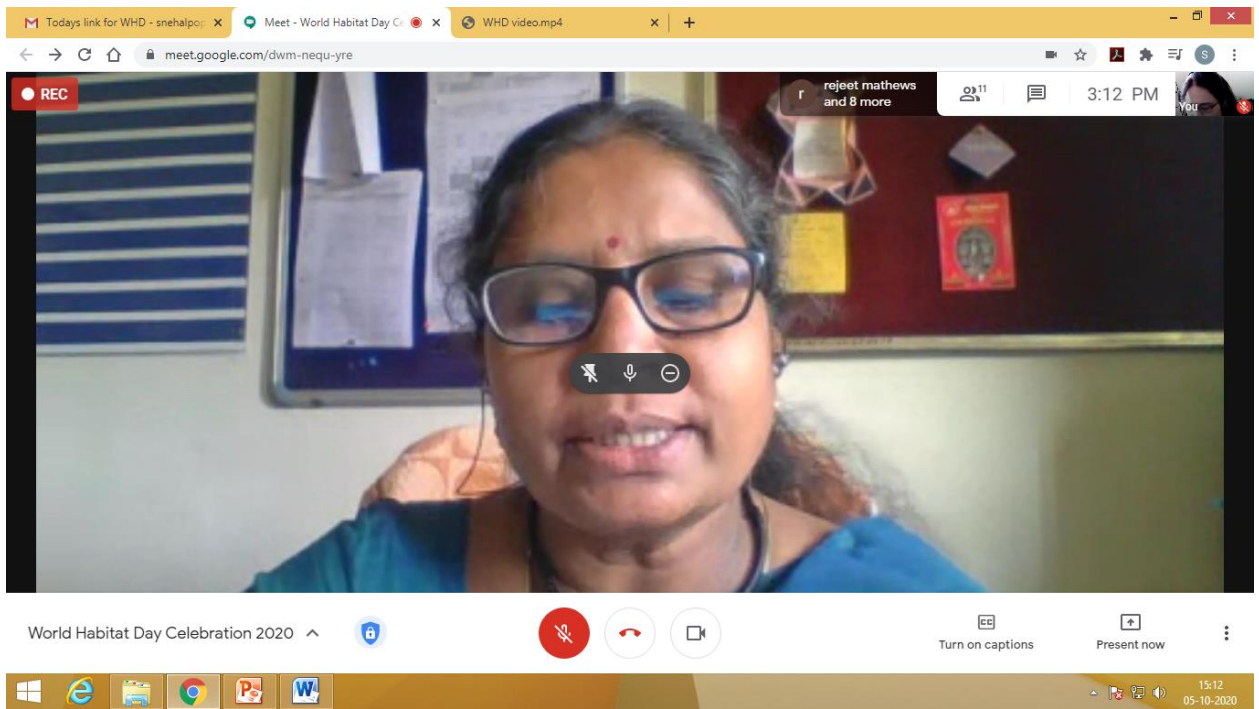
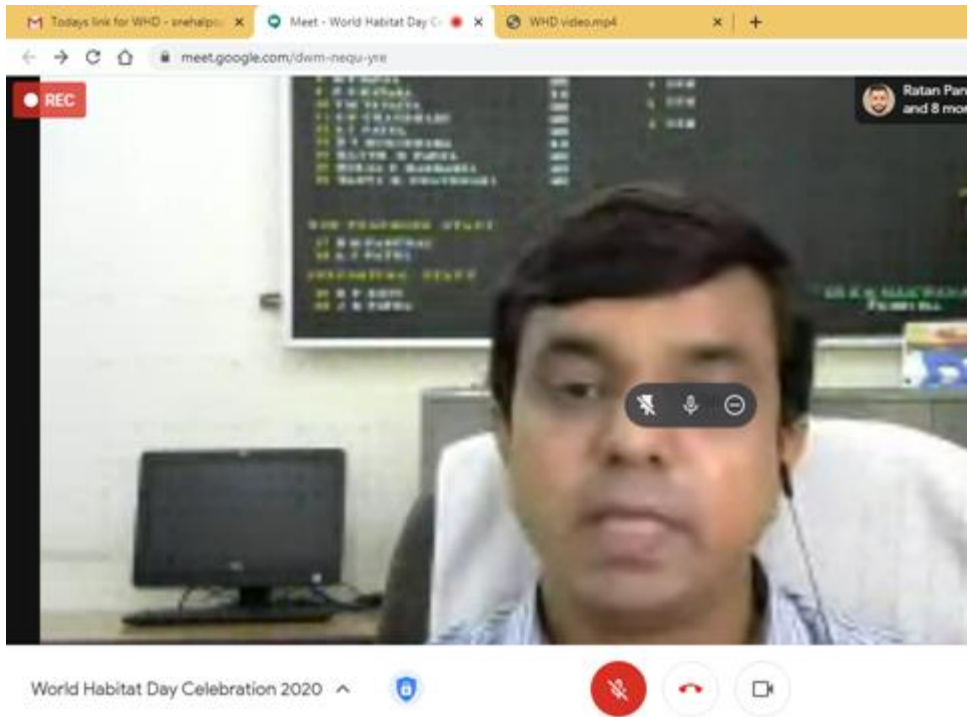
At the end, Dr. Jatin Patel, Associate Professor, Electrical Engineering Department, GCET delivered the vote of thanks.

SCHEDULE OF THE PROGRAMME	
WORLD HABITAT DAY,2020, 5th October, 2020	
Schedule of Events	
10:30am – 11:30 am	Poster Presentation Topic: India towards sustainability – An approach for town planning
Welcome Speech 3:00 PM (5 min)	Dr.KaushikNath Professor and Head, Chemical Engineering Department, GCET (Executive Committee Member, IE(I), VVLC)
About IE(I) VVLC 3:05 PM (5 min)	Dr. R. D. Patel (Hon. Chairman, IE(I), VVLC)

<p>About World Habitat Day 3:10 PM (5 min)</p>	<p>Dr. Khadeeja Priyan Professor & Head, Civil Engineering Department, GCET (Fellow, IE(I))</p>
<p>Speaker – 1 3:15 PM (45 min)</p>	<p>Ms. Rejeet Mathews Director, Urban Development, World Resources Institute, India (Topic: Housing India’s Urban Poor: Challenges, Opportunities & Way Forward)</p>
<p>Speaker – 2 4:00 PM (45 min)</p>	<p>Prof. RajanRawal CRDF Professor, CEPT University, Ahmedabad (Topic: ECO NiwasSamhita and Thermal comfort in Affordable Housing)</p>
<p>Concluding the Sessions 4:45 PM (5 min)</p>	<p>Dr. SnehalPopli Assistant Professor, Civil Engineering Department, GCET (Member, IE(I))</p>
<p>Vote of Thanks 4:50 PM (3 min)</p>	<p>Dr. J. J. Patel Associate Professor, Electrical Engineering Department, GCET (Executive Committee Member, IE(I), VVLC)</p>

Some Moments of World Habitat Day 2020





Todays link for WHD - snehalpo: x Meet - World Habitat Day Ce WHD video.mp4

meet.google.com/dwm-nequ-yre

REC rejeet mathews is presenting

Amit Raval and 9 more 3:26 PM

World Habitat Day Celebration 2020

Turn on captions rejeet mathews is presenting

Windows taskbar: e, Chrome, P, W, 15:26 05-10-2020

Todays link for WHD - snehalpo: x Meet - World Habitat Day Ce

meet.google.com/dwm-nequ-yre

REC rejeet mathews is presenting

Ratan Panchal is also here 3:35 PM

The Ground Situation

Lack of individual water and sanitation facilities, small size of self-made tenements and absence of public spaces and parks often driving adults and children to the road to gather and play

rejeet mathews, Khadeeja Priyan, Jatin Patel, Kaushik Nath, Nishi Shah, Dr. Rakesh D. Patel, Amit Raval, Aditya Dalwadi

World Habitat Day Celebration 2020

Turn on captions rejeet mathews is presenting

Windows taskbar: e, Chrome, P, W, 15:35 05-10-2020


Today's link for WHD - snehalpo... Meet - World Habitat Day Ce... x +

meet.google.com/dwm-nequ-yre

REC

Ratan Panchal and 9 more

12 4:02 PM You



World Habitat Day Celebration 2020 ^

Turn on captions Present now

16:02 05-10-2020


Today's link for WHD - snehalpo... Meet - World Habitat Day Ce... x +

meet.google.com/dwm-nequ-yre

REC

Ratan Panchal and 1 more

12 4:02 PM You



Khadeeja Priyan Aditya Dalwadi rejeet mathews

Rajan Rawal Jatin Patel Nishi Shah

World Habitat Day Celebration 2020 ^

Turn on captions Present now

16:02 05-10-2020

Today's link for WHD - snehalpo... Meet - World Habitat Day Cr... +

meet.google.com/dwm-nequ-yre

REC Rajan Rawal is presenting Ratan Panchal and 1 more 13 4:07 PM You

ECO Niwas Samhita and Thermal comfort in Affordable Housing

5th October 2020

Rajan Rawal Khadeeja Priyan Jatin Patel Aditya Dalwadi rejeet mathews Nishi Shah Kaushik Nath Dr. Rakesh D. Patel

World Habitat Day Celebration 2020 Turn on captions Rajan Rawal is presenting 16:07 05-10-2020

Registration For World Habitat D... Meet - World Habitat Day Cr... +

meet.google.com/dwm-nequ-yre

REC Ratan Panchal is also here 11 4:54 PM You

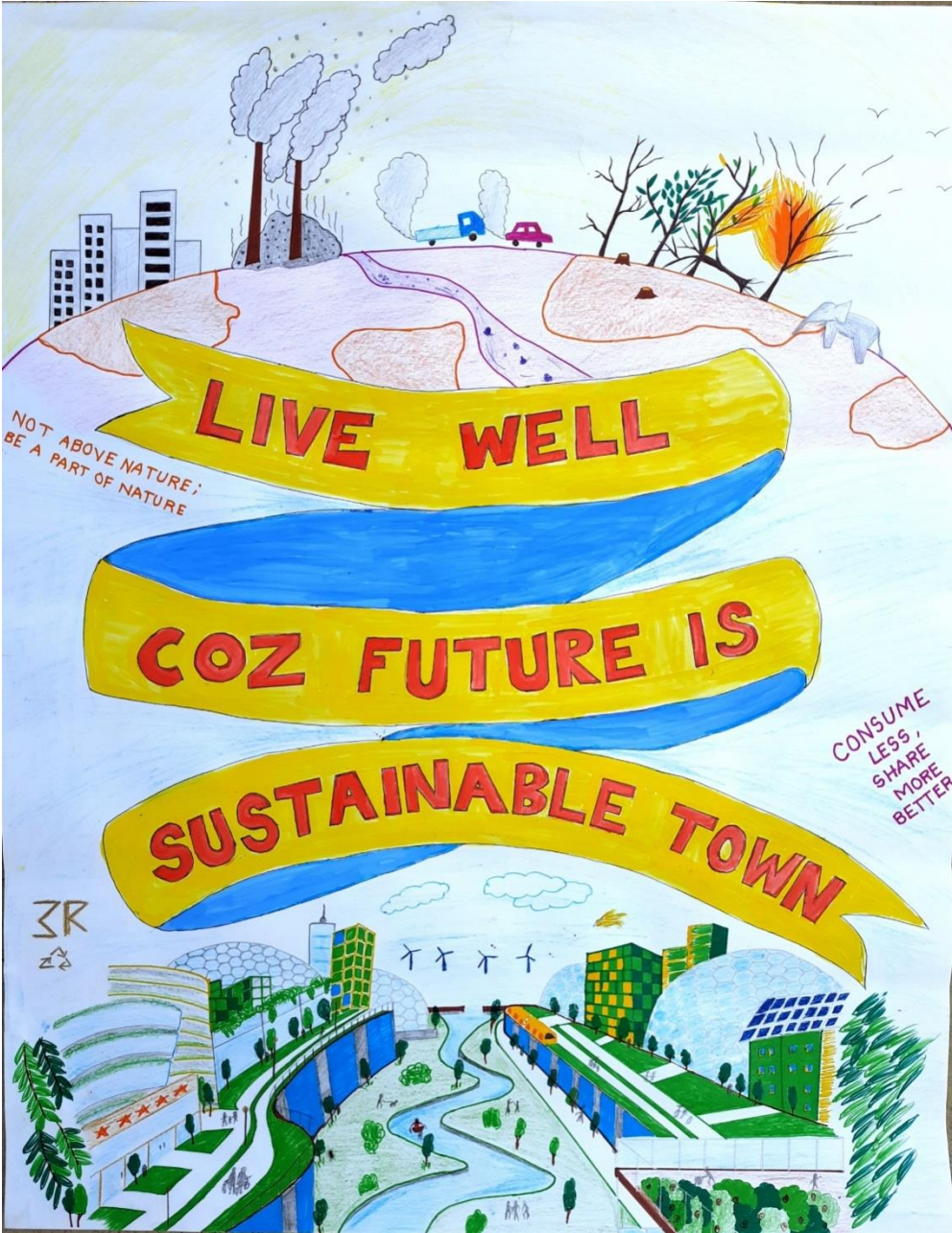
Nishi Shah Khadeeja Priyan Kaushik Nath rejeet mathews Dr. Rakesh D. Patel Jatin Patel

World Habitat Day Celebration 2020 Turn on captions Present now 16:54 05-10-2020

Winning posters of WHD 2020

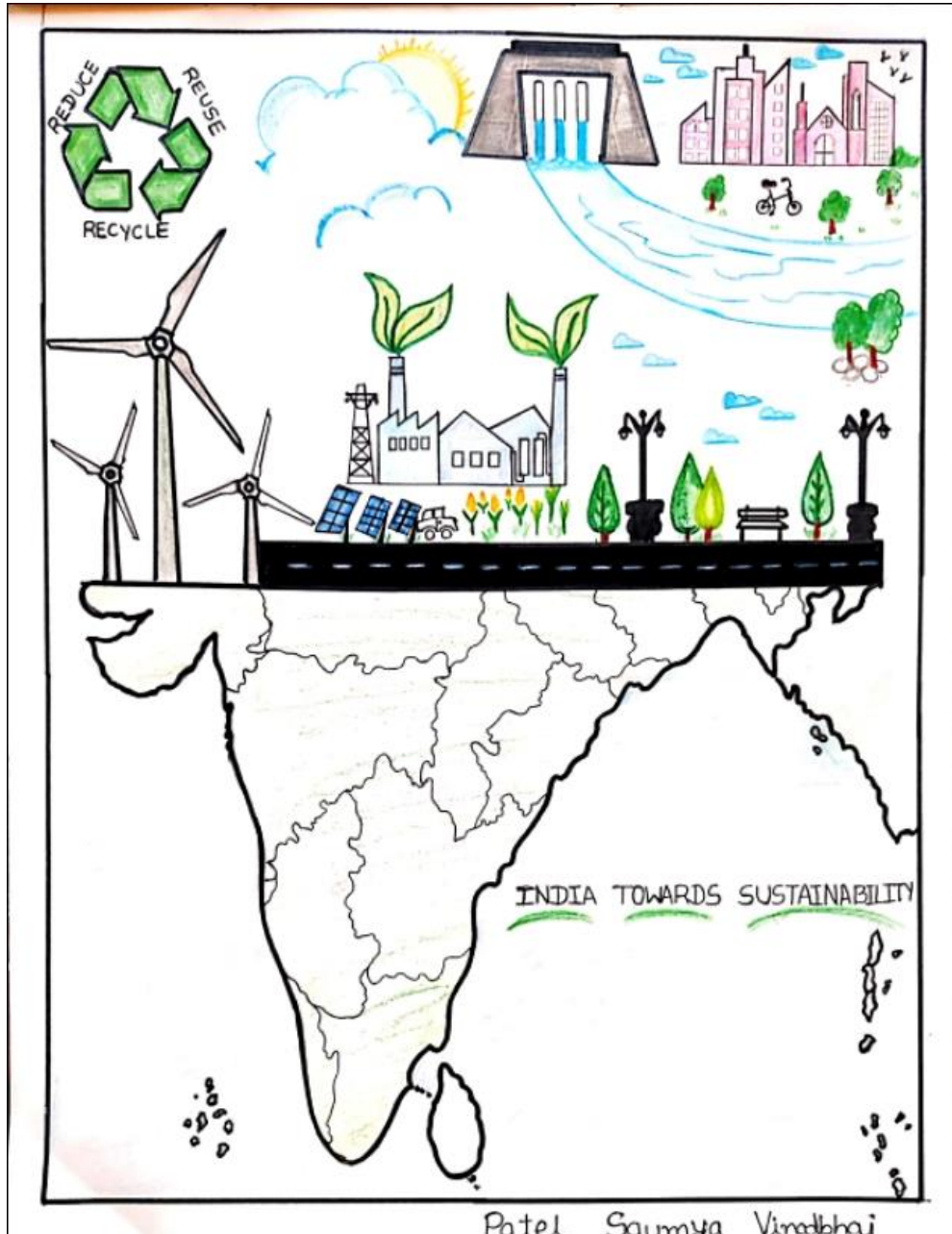
First winner

Ms.HellyJadeja



Second Winner

Ms.Saumya Patel



Brochure of WHD 2020

<p>Registration Link for Program https://forms.gle/3hNYrwAJg7DBDUpWA (Open till: 10 am 3rd October, 2020)</p> <p>Poster Making Competition Topic: India towards sustainability – An approach for town planning</p> <p>Student Coordinators Nishi Shah M: 7600052375 Aditya Dalwadi M: 9904478054</p> <p>Faculty Coordinators Dr. Khadeeja Priyan Fellow, IE (I) Professor & Head, Civil Engineering Department Email- khadeejapriyan@gcet.ac.in M:- 9428488108 Dr. Snehal Popli Member, IE (I) Assistant Professor, Civil Engineering Department, Email- snehalpopli@gcet.ac.in M:- 9825162015 Dr. Jatin J. Patel Fellow, IE (I) & Executive Comm. Member, IE (I) Associate Professor, Electrical Engineering Department, Email- jatinpatel@gcet.ac.in M:- 9586647501</p> <p>Platform Google Meet</p> <p>Institute Contact Details Phone: (02692) 231651, Fax: (02692) 236896 principal@gcet.ac.in</p>	<p style="text-align: center;">Program Schedule</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Items</th> <th style="text-align: left;">Executor</th> </tr> </thead> <tbody> <tr> <td> Welcome Speech 3:00 PM (5 min) </td> <td> Dr. I. N. Patel Principal, BVM Engineering College (Executive Committee Member, IE(I), VVLC) </td> </tr> <tr> <td> About IE(I) VVLC 3:05 PM (5 min) </td> <td> Dr. R. D. Patel (Hon. Chairman, IE(I), VVLC) </td> </tr> <tr> <td> About World Habitat Day 3:10 PM (5 min) </td> <td> Dr. Khadeeja Priyan Professor & Head, Civil Engineering Department, GCET (Fellow, IE(I)) </td> </tr> <tr> <td> Speaker – 1 3:15 PM (45 min) </td> <td> Ms. Rejeet Mathews Director, Urban Development, World Resources Institute, India (Topic: Housing India's Urban Poor: Challenges, Opportunities & Way Forward) </td> </tr> <tr> <td> Speaker – 2 4:00 PM (45 min) </td> <td> Prof. Rajan Rawal CRDF Professor, CEPT University, Ahmedabad (Topic: ECO Niwas Samhita and Thermal comfort in Affordable Housing) </td> </tr> <tr> <td> Concluding the Sessions 4:45 PM (5 min) </td> <td> Dr. Snehal Popli Assistant Professor, Civil Engineering Department, GCET (Member, IE(I)) </td> </tr> <tr> <td> Vote of Thanks 4:50 PM (3 min) </td> <td> Dr. J. J. Patel Associate Professor, Electrical Engineering Department, GCET (Executive Committee Member, IE(I), VVLC) </td> </tr> </tbody> </table>	Items	Executor	Welcome Speech 3:00 PM (5 min)	Dr. I. N. Patel Principal, BVM Engineering College (Executive Committee Member, IE(I), VVLC)	About IE(I) VVLC 3:05 PM (5 min)	Dr. R. D. Patel (Hon. Chairman, IE(I), VVLC)	About World Habitat Day 3:10 PM (5 min)	Dr. Khadeeja Priyan Professor & Head, Civil Engineering Department, GCET (Fellow, IE(I))	Speaker – 1 3:15 PM (45 min)	Ms. Rejeet Mathews Director, Urban Development, World Resources Institute, India (Topic: Housing India's Urban Poor: Challenges, Opportunities & Way Forward)	Speaker – 2 4:00 PM (45 min)	Prof. Rajan Rawal CRDF Professor, CEPT University, Ahmedabad (Topic: ECO Niwas Samhita and Thermal comfort in Affordable Housing)	Concluding the Sessions 4:45 PM (5 min)	Dr. Snehal Popli Assistant Professor, Civil Engineering Department, GCET (Member, IE(I))	Vote of Thanks 4:50 PM (3 min)	Dr. J. J. Patel Associate Professor, Electrical Engineering Department, GCET (Executive Committee Member, IE(I), VVLC)	<div style="text-align: center;"> </div> <p style="text-align: center;">The Institution of Engineers (India) Vallabh Vidyanagar Local Center Gujarat</p> <p style="text-align: center;"><i>Invites You to Celebrate</i></p> <p style="text-align: center;">World Habitat Day on 5th October, 2020</p> <p style="text-align: center;"><i>Themed</i></p> <p style="text-align: center;">Housing For All: A Better Urban Future</p> <p style="text-align: center;">Sponsored by <i>The Institution of Engineers (India)</i> Vallabh Vidyanagar Local Center</p> <p style="text-align: center;">Host :Dr. C. C. Patel & Mrs. Sushilaben Patel DEPARTMENT OF CIVIL ENGINEERING G H Patel College of Engineering & Technology Vallabh Vidyanagar – 388 120, Gujarat, India (Constituent College of CVM University)</p>
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❖ **Preamble**

World Habitat Day is observed on the first Monday of October every year to raise awareness about our basic rights like shelter, food, and clothing and also about our responsibilities towards improving our neighbourhoods for a better future and well being. It was declared in 1985 by the United Nations General Assembly. The day is celebrated in many countries and various activities are organised to examine the problems of rapid urbanisation and its impact on the environment and human poverty. Each year, World Habitat Day takes on a new theme chosen by the United Nations based on current issues. This year, WHD 2020 theme is: 'Housing For All: A Better Urban Future'. Housing is a basic human right. In the present scenario where social distancing and to remain at safe distance and maintaining good hygiene practice is just impossible without adequate housing. People living in slum areas in populated countries are going to be the victims of the pandemic COVID 19. In the present pandemic situation, WHD 2020 will share information to promote the idea of housing, shelter, and slum upgrading as most imperative functions of cities in meeting resident's needs. The pandemic has created an awareness that cities and local governments around the world can move towards eliminating inequalities and poverty levels and providing access to basic amenities like shelter, food water for all

❖ **About The Institution of Engineers (India)**

The Institution of Engineers India (IEI) is the national organization of engineers in India, established in 1920 in Kolkata, West Bengal. It has more than one million members in its 15 engineering disciplines across 125 centres and chapters located in India and around the world. It is the world's largest multi-disciplinary engineering professional society in the world. The Institution of Engineers India was incorporated by Royal Charter in 1935. The Institution of Engineers, Vallabh Vidyanagar local centre is organizing various activities such as expert talks, industrial visits and celebrating important days to protect the environment and society.

❖ **About Vallabh Vidyanagar**

Vallabh Vidyanagar, named after Sardar Vallabhbhai Patel, The Iron Man of India, is 6 kilometers from Anand, The Milk Capital of India. Over the years it has emerged to be an active Educational Hub in the western part of India. The town is the synthesis of varied cultures, which enable it to evolve and expand the quality life, as well as to foster the environment of creativity amongst the student citizens.

❖ **About Speakers:**



❖ **Ms. Rejeet Mathews**
(Director, Urban Development,
World Resources Institute, India)

She has a bachelor's in Architecture from M S Ramaiah Institute of Technology, Bangalore and a master's in Urban Design from CEPT University, Ahmedabad. Her current work is around spatio-economic planning, the integration of land use and transport, city-region master planning, affordable housing, alternative mechanisms to acquire, plan and service land, revision of town and country planning acts and capacity building. She has provided technical inputs to various committees, reports and policies anchored by city, state and national governments in India.



❖ **Prof. Rajan Rawal**
CRDF Professor,
CEPT University, Ahmedabad

Rajan Rawal holds the position of Coordinator for the Post Graduate Programs Office. He is a member of faculty at Faculty of Design, CEPT U. He is a registered architect, graduated from School of Architecture, Institute of Environmental Design, Vallabh Vidyanagar. Rajan Rawal is a member of the technical core committee for Benchmarking of buildings, Window Labeling Program committee at Bureau of Energy Efficiency, Govt. of India]

❖ **PATRONS**

- Er. Bhikhubhai B. Patel, Chairman, CVM
- Shri. Manishbhai S. Patel, VP, CVM
- Dr. S. G. Patel, Hon. Secretary, CVM
- Shri. B. P. Patel, Hon. Jt. Secretary, CVM
- Shri. M. D. Patel, Hon. Jt. Secretary, CVM
- Shri. R. C. Talati, Hon. Jt. Secretary, CVM
- Shri. V. H. Patel, Hon. Jt. Secretary, CVM

❖ **ADVISORY TEAM**

- Dr. R. D. Patel –Chairman, IE(I) VVLC
- Prof. H. C. Badrikia –Secretary, IE(I) VVLC
- Dr. I. N. Patel- Principal (BVM)
- Dr. Himanshu Soni- Principal (GCET)
- Dr. Vishal Singh-Principal (ADIT)
- Dr. Archana Nanoty- Principal(MBIT)
- Dr. R.K Yadav (Ex-officeo Member, Gujarat State)
- Dr. S. V. Vaishnav (Executive Member, IE (I), VVLC)
- Prof. J. H. Patel (Executive Member, IE (I), VVLC)
- Dr. R. K. Jain (Executive Member, IE (I), VVLC)
- Dr. K. M. Makwana (Exec. Member, IE (I), VVLC)
- Dr. Kausliik Nath (Executive Member, IE (I), VVLC)
- Dr. Rajiv B. Bhatt (Executive Member, IE (I), VVLC)
- Dr. Jatin J. Patel (Executive Member, IE (I), VVLC)
- Dr. Kauslika R. Patel (Exec. Member, IE (I), VVLC)
- Shri Vinit K. Modi (Executive Member, IE (I), VVLC)
- Dr. S. K. Dave (Executive Member, IE (I), VVLC)
- Prof. Amit D. Raval (Exec. Member, IE (I), VVLC)
- Prof. Sunil S. Shah (Executive Member, IE (I), VVLC)
- Shri Mihir T. Patel (Executive Member, IE (I), VVLC)

Poster of WHD 2020

**The Institution of Engineers (India), Vallabh Vidyanagar Local Centre, Gujarat
Invites You to Celebrate**

World Habitat Day

(Theme: Housing For All: A Better Urban Future)

Ms. Rejeet Mathews
Director, Urban Development,
World Resources Institute, India

🕒 3:15 pm

Topic : Housing India's Urban Poor:
Challenges, Opportunities & Way Forward

Prof. Rajan Rawal
CRDF Professor,
CEPT University, Ahmedabad

🕒 4:00 pm

Topic : ECO Nivesa Samble and Thermal
comfort in Affordable Housing

Poster Making Competition
Topic: India towards sustainability –
An approach for town planning

<https://forms.gle/3k3kwa1a7h18unWA>
(Open till: 10 am 3rd October, 2020)

Nishi Shah (+91-7600052375)
Aditya Dalwadi (+91-9904478054)

📍 Platform: Google meet

5th October, 2020

Sponsored by
The Institution of Engineers (India) Vallabh Vidyanagar Local Center
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