



Sri Rama Sadhana Bombay Trust's
COLLEGE OF ENGINEERING AND TECHNOLOGY

BAMBHORI, POST BOX NO. 94, JALGAON - 425001 (M.S.)
Included under section 2 (f) & 12 (B) of the U.G.C Act, 1956
Grade B++ (2.91) NAAC Accredited

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Civil Engineering Department

news letter

July - Dec 2020

Programme Educational Objectives (PEOs)

- To carryout effective teaching (theory + experiment) fulfilling the syllabus requirements as well as covering relevant content beyond syllabus; to undertake good projects meeting demands of private/cooperative industrial sector, Governmental organization etc; and to arrange site visits for students to correlate the theoretical knowledge with real world.
 - To arrange remedial classes for weaker students; to organize expert lectures by eminent persons from academics, industry and other diversified field; to organize and motivate students for participation in co-curricular, extracurricular activities for overall personality development.
- To give a role model to the students for being good engineer, good citizen and good human being; and to enhance mass awareness regarding environmental friendly technology and life style.
- To provide opportunities for the staff for career development within and off the institute; to enhance research facilities in the department; to extend consultancy services to various government and private organizations.

Program Outcomes (Pos)

- **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

- **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Programme Specific Outcomes (PSOs)

- **Ability to apply theoretical knowledge for specific field applications:** a civil engineering graduate must be able to identify the constraints of a real world problem and must be able to decide appropriate combination of technology to resolve the problem. S/he must be able to implement the solution.
- **Ability to work with advanced equipment:** a civil engineering graduate must be able to deal with advanced equipments used for various civil engineering applications for faster and precise observations.
- **Awareness about alternative and blended construction materials:** natural materials are getting scarce and their over exploitation is causing environmental damages. A civil engineering graduate must be aware about the applications of alternative and blended construction materials which are more sustainable.

The Pandemic

November 2019, a new virus called as Covid 19 was transmitted from bat to mankind in China. The virus was extremely contagious. Hence the disease soon took the magnitude of a pandemic. Though the disease is a mild disease, a minor proportion of people affected by this become serious and need intense care. Some of them loose their lives.

The Covid pandemic changed the way we live. Because of this pandemic the words like lock down were emerged. It badly damaged the economy globally and lead to the confinement of people. It created social distancing leading to psychological problem and related issues. The worse affected sector is the education sector and the worst affected community is the student community. The students lost their social contacts. Their natural psychological growth in hindered.

Our great scientists are fighting with the problem. The vaccines have come up. It is hoped that by the grace of almighty the disease will also go away.

During this pandemic era, the education system has become online. Digital technology has proved to be a boon.

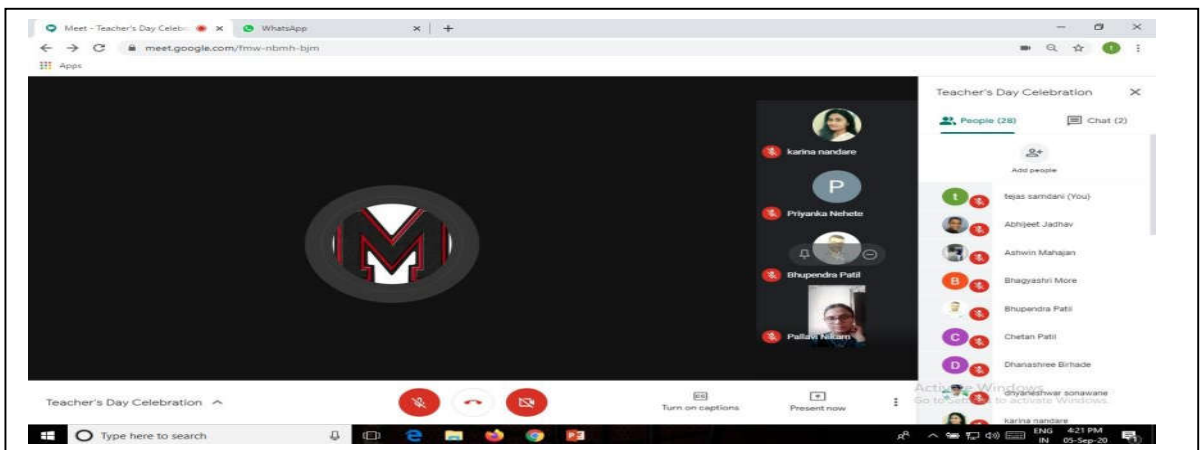
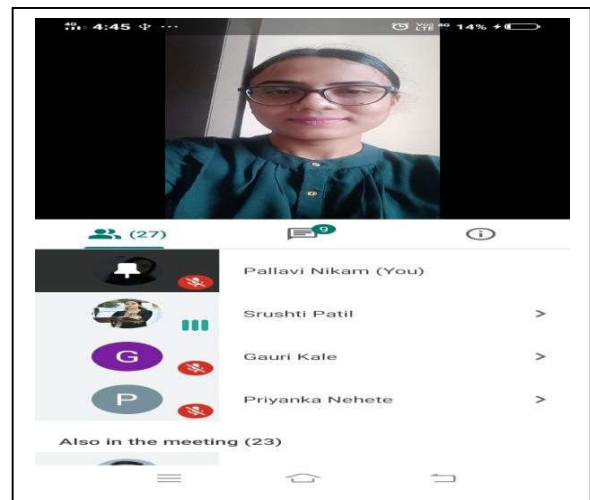
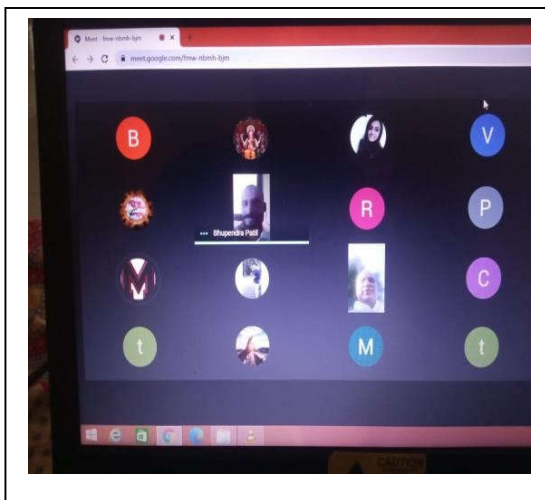
A wise man is one who has ability to convert crises into opportunity. This is the high time when the students must introspect and do SWOT analysis of themselves. They must take all possible to steps to eradicate their weaknesses. They must in particular focus on personality development and developing communication skills.

In spite of all this, we must note that such divine tragedies give an opportunity to the society to introspect and update its societal values and Principals and join hand in hand to cope up.

Teachers' Day Celebration

Teachers' day celebration is done on September 5TH every year, in the memory of Shri Radhkrishnana ji. In fact teachers' day is an occasion to give tribute to teachers. Respect to teachers is a traditional practice in India, centuries old.

The department of Civil Engineering had been following the tradition since long. This year, 2020, being Covid pandemic prevailing, the celebration of this event was done online. Students arranged the program using zoon platform. HoD Dr M Husain delivered a motivational lecture to students. Few other teachers also delivered the lectures. Students also expressed their views. There were games based on puzzles for teachers.



GATE Qualified Student

GATE 2020 Scorecard

Name
BHUSHAN VILAS SANAP

Registration Number
CE20872034061

Examination Paper
Civil Engineering (CE)

Marks out of 100* 36.03

All India Rank in this paper 14199

GATE Score 384

Qualifying Marks**

(A) General	(B) SC/ST	(C) PwD
32.9	29.6	21.9

Number of Candidates appeared in this paper 126974

Valid from March 18, 2020 to March 17, 2023

Qualified
March 18, 2020

Prof. S. R. Chahar
Organizing Chairman, GATE 2020
(on behalf of IITM - GATE, to IIT Bombay)

Qualifying marks for GATE 2020 are subject to change without any prior notice. Admitting Institute may conduct further tests or interviews for final selection.

In the GATE 2020, the qualifying marks for a general category candidate in each paper is 10% (out of 100) or higher in general, where in the latter case it is the standard deviation of marks of all the candidates who appeared in the paper. The qualifying marks for OBC (N-1) and SC/ST (PwD) candidates are 50% and two-third of a general category candidate in the paper respectively.

The GATE 2020 score was calculated using the formula:

$$\text{GATE Score} = S_1 + (S_2 - S_1) \left(\frac{M - M_3}{M_2 - M_3} \right)$$

where

- M is marks out of 100 obtained by the candidate in the paper
- M_2 is the qualifying marks for general category candidate in the paper
- M_3 is the mean of marks of top 0.1% or top 10 candidates in general) of the candidates who appeared in the paper (in case of multi-session papers including all sessions)
- $S_1 = 350$ is the score assigned to M_2
- $S_2 = 884$ is the score assigned to M_3

In multi-session (Civil Engineering and Mechanical Engineering) papers, the accumulated mark of i^{th} session M_{i1} was computed using the formula:

$$M_{i1} = \frac{M_i^* - M_3^*}{M_2^* - M_3^*} (M_{i0} - M_{i3}) + M_{i0}^*$$

where

- M_{i1} is the actual marks obtained by the i^{th} candidate in i^{th} session
- M_i^* is the average marks of the top 0.1% of the candidates considering all sessions
- M_3^* is the sum of mean and standard deviation marks of the candidates in the paper considering all sessions
- M_{i0} is the average marks of the top 0.1% of the candidates in the i^{th} session
- M_{i0}^* is the sum of the mean marks and standard deviation of the i^{th} session

Graduate Aptitude Test in Engineering (GATE) 2020 was organized by Indian Institute of Technology Delhi on behalf of the National Coordination Board (NCB) - GATE for the Department of Higher Education, Ministry of Human Resource Development, (MHRD), Government of India.

GATE is a prestigious national level examination of engineering. Basically the examination serves as an entry certificate for the post graduation. However more often it serves as a bench mark for comparing performance between variety of colleges in the country.

The department feels proud that this year Mr Bhushan Sanap has qualified the GATE Examination. The department conveys best wishes to him.



Result May 2020

The May 2020 examination was held online due to Covid pandemic. The exam patten was of MCQ type. The list of top ten students is given as follows, the department feels proud of them:

Khan Zaiyyan Nurullah

Gavli Poonam Kedu

Shinde Kunal G

Deshmukh Dhawan K

Patil Yogita A

Lawne Shreyas N

Samrit Rushabh V

Mohammad Ishak R

Durge Kedar P

Patil Rituja C

Kothawade Shrya S

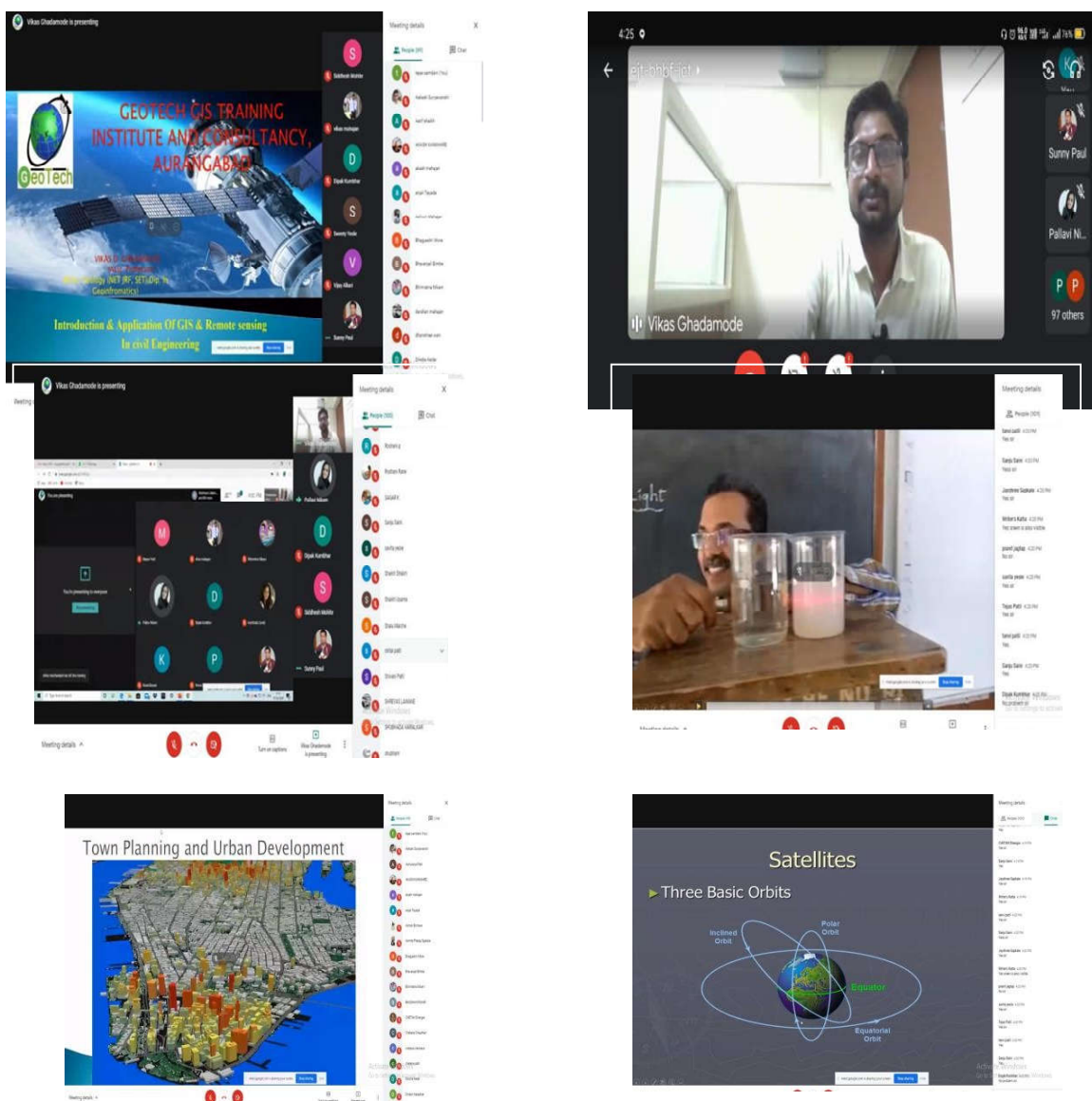
Mahajan Laxmi M



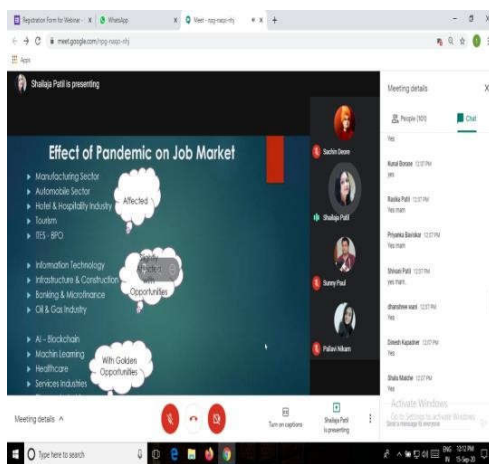
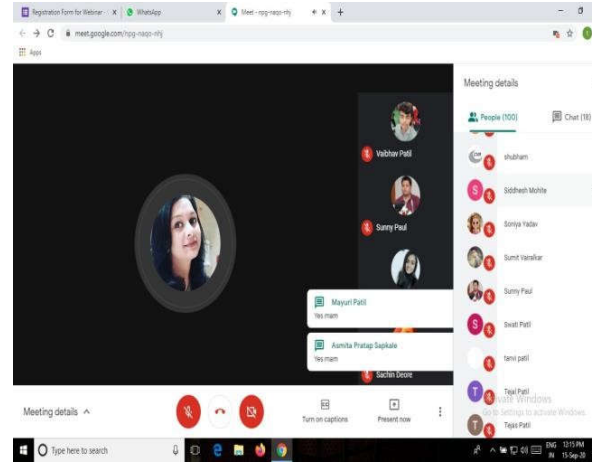
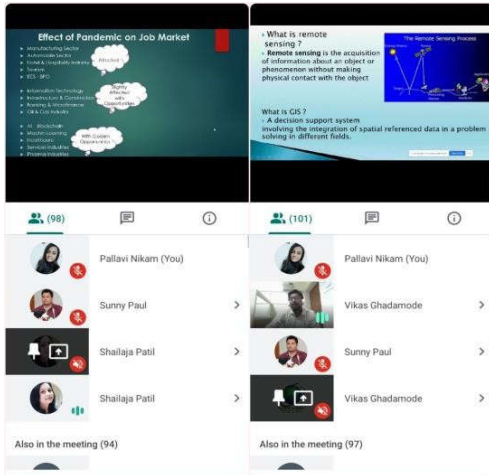
Engineers' day celebration

Engineers' day is celebrated every year on September 15TH on the auspicious occasion of birthday of Sir M Vishveshraiyya.

On September 15TH, 2020, the engineers' day was celebrated online. On this occasion two webinars were organized. The first webinar was taken by Eminent Speaker: Mr. Vikas Ghadamode, Assistant Professor, Geotech GIS Institute and Consultancy Services, Aurangabad. He spoke on Applications of QGIS in Civil Engineering.



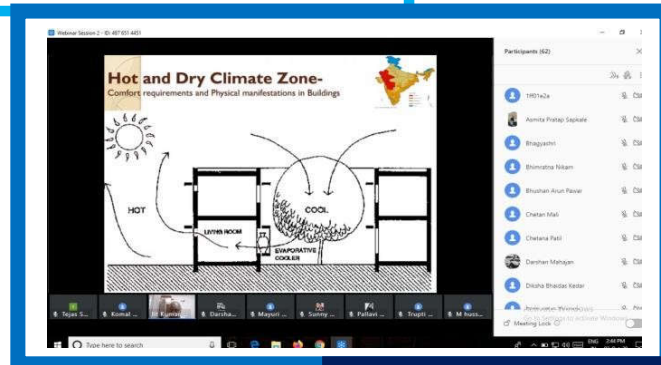
The second webinar was on Challenges for Civil Engineers after COVID 19: Impact and Solutions, by eminent speaker: Ms. Shailja Patil, director of Motion Institute of Management.

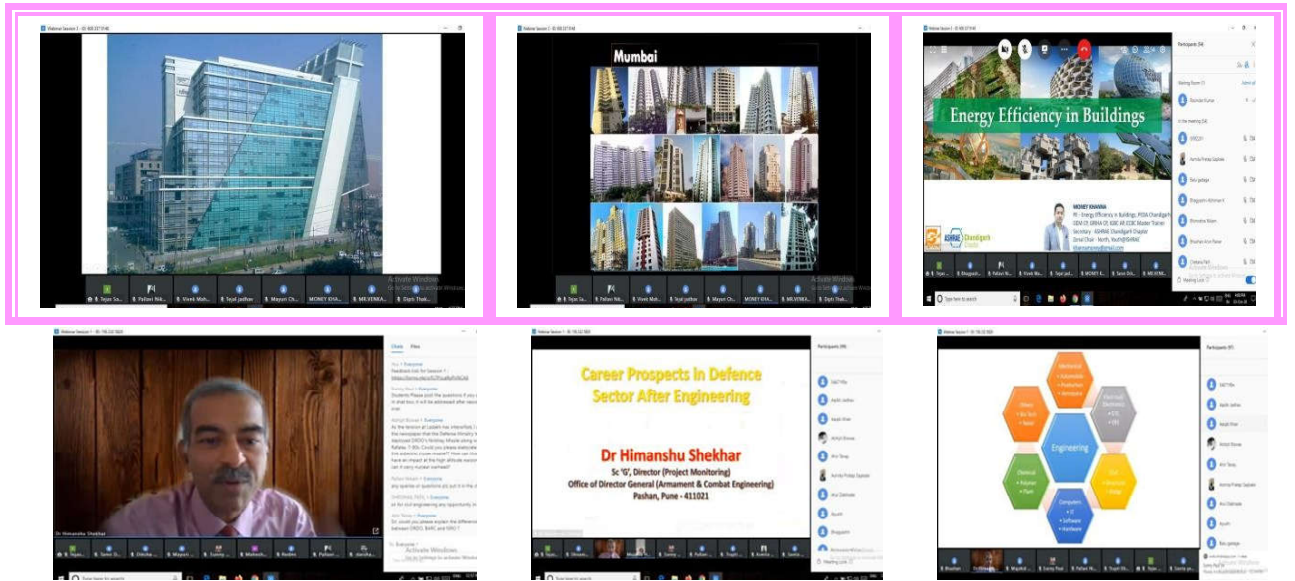


Guest Lecture

On the occasion of Gandhi Jayanti and Shastri Jayanti (October 2, 2020) the department organized Guest Lectures of following eminent persons:

1. Mr Money Khanna, Secretary, ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers), Chandigarh Chapter delivered a talk on Energy Efficiency in Buildings.
2. Mr Jit Kumar Gupta ,Chairman of Indian Green Building Council delivered a lecture on Green Buildings. He shared he vast experience with simple examples.
3. Dr Himanshu Shekhar Scientist G, Director (Project Monitoring), Office of Director General, Armament and Combat Engineering, talked about career opportunities in Engineering.





Prospects in Civil Engineering



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Infrastructure Sector in India

Last updated on Jun, 14 2023

INFRASTRUCTURE SECTOR IN INDIA

EXPLORE OTHER INDUSTRIES

Infrastructure

GOI allocated Rs. 111 lakh crore (US\$1.4 trillion) under the NIP for FY2019-25. Sectors such as energy, roads, urban and railways amount to ~71% of the projected infrastructure investments in India.

ADVANTAGE INDIA

Robust Demand

- India is expected to become the world's third largest construction market by 2022.
- India will require investment worth Rs. 50 trillion (US\$ 777.73 billion) across infrastructure by 2022 for a sustainable development in the country.

Attractive Opportunities

- Favourable valuations make the sector an attractive opportunity.
- Only 24% of the National Highway network in India is four-lane, therefore presents an immense scope for improvement.
- The Regional Connectivity Scheme (RCS) gives opportunity for development of airports.

Policy Support

- In Union Budget 2021, to support initiatives such as 'Housing for All' and 'Smart Cities Mission', the government allocated Rs. 13,750 crore (US\$ 1.89 billion) to AMRUT and Smart Cities Mission.
- In March 2021, the Parliament passed a bill to set up the National Bank for Financing Infrastructure and Development (NBFID) to fund infrastructure projects in India.

Increasing Investments

- Huge investments in infrastructure (e.g., Reliance Digital Fibre Infrastructure Trust Investment of US\$ 1 billion) have provided momentum to overall PE/VC investments in India.
- The construction development and infrastructure activity sectors received FDI inflows amounting to US\$ 25.93 billion and US\$ 23.99 billion, respectively, between April 2000 and December 2020.

DASHBOARD