

SGTU/FEAT/CE- 167

Dated: 10 December 2022

To

The DEAN  
Faculty of Engineering and Technology  
SGT University, Gurugram

**Subject:** Permission to organize an **Expert Talk on "Design of Bridges" on 24 December 2022.**

Respected Sir,

On behalf of the Department of Civil Engineering, SGT University, we would like to request you permit us for organizing an **Expert Talk on "Design of Bridges" on 24 December 2022**, via Online Mode, under the aegis of Torque Club, for the students of the Department of Civil Engineering, Faculty of Engineering & Technology, SGTU. This expert talk will familiarize the students with the concept of designing culverts and bridges. Kindly consider the request and give valuable permission for the same. No financial commitments are involved in this session.


Date: 24 December 2022

Timing: 10.00-11.00 AM

Speaker: Mr. Rohit Prasad  
Assistant Structure Engineer  
Feedback Infra Pvt. Ltd., Gurugram

With Best Regards

  
Dr. Kiran Devi (AP-CE)

  
Dr. Neeraj Saini (HOD CE)

DEAN (FEAT)



# SGT UNIVERSITY

SHREE GURU GOBIND SINGH TRICENTENARY UNIVERSITY  
(UGC Approved University) GURGAON, Delhi-NCR

**Department of Civil Engineering, FEAT**

**'Design of Bridges'**

**Type of event: Alumni cum Expert Talk**

**Date: 24/12/2022**

**Time: 10:00 AM to 11:00 AM**

**Venue: Online Mode**

**(Google Meet: [meet.google.com/yko-tstm-imw](https://meet.google.com/yko-tstm-imw))**

**Organizer:**

Dr. Neeraj Saini, HOD & Assistant Professor, Department of Civil Engineering, FEAT.

Dr. Kiran Devi, Assistant Professor, Department of Civil Engineering, FEAT.

**Objectives:**

Bridges have a special place in transportation infrastructure due to their direct relationship with other places. The prime objective of a bridge design in the civil domain is to produce a safe bridge that is elegant and satisfies all functionality requirements, at a cost that is acceptable to the constructor. In the session, the students will learn about the basic concepts involved in the designing of bridges, with reference to IRC codes. Also, four basic types of bridges in detail, such as Beam bridges, Arch bridges, Cantilever bridges, and Suspension bridges will be demonstrated in the session.

## CURRICULUM VITAE

Rohit Prasad  
Mobile No. 8383801751  
Email: rohite94@gmail.com

Name of Firm : Feedback Infra Pvt. Ltd.  
Date of Birth : 5<sup>th</sup> October, 1998  
Nationality : Indian

### Key Qualifications:

M.Tech (Structure) – from SGT University, Gurugram, 2022

### Education:

- M.Tech (Structure) from SGT University, Gurugram, 2022
- B.Tech (Civil) from Jawaharlal Nehru Technological University, Hyderabad, 2019
- 12<sup>th</sup> from CBSE, 2015
- 10<sup>th</sup> from CBSE, 2013
- Completed Internship in Voyants Pvt. Ltd.

### Employment Record:

Jun2022 to Till Date      Asst. Structure Engineer      Feedback Infra Pvt. Ltd.  
Description of Duties:

As Asst. Structure Engineer, responsible for the following:

- Structural Design of National and State Highway Bridges
- Analysis and design of RCC bridges.
- Preparation of Technical Schedules as per NH Act, 1956.
- Provide technical input to assigned projects assisting in the development of conceptual design
- Ensure conformance with all applicable codes, standards, and client requirements
- Involved in preparation of calculations and drawings
- Perform calculations for analysis
- Proof Checking of Design & Drawings
- Preparation of Pre Bid reports including collection of preliminary data from site

### Project Work:

1. Development and upgradation up to four lane access control Expressway from Design chainage Km.528.300 to Km.545.300(Sidhara to Ban village Section of NH-44) on EPC Mode under Bharatmal Pariyojana in the UT of J&K.(Phase II-Package XVIII).

Oct 2021 to Jun 2022      Asst. Structure Engineer      SPS Technocrats Pvt. Ltd.

### Description of Duties:

As Asst. Structure Engineer, responsible for the following:

- Structural Design of National and State Highway Bridges
- Analysis and design of RCC bridges.

## CURRICULUM VITAE

Rohit Prasad  
Mobile No. 8383801751  
Email: rohite94@gmail.com

- Preparation of Technical Schedules as per NH Act, 1956.
- Provide technical input to assigned projects assisting in the development of conceptual design
- Ensure conformance with all applicable codes, standards, and client requirements
- Involved in preparation of calculations and drawings
- Perform calculations for analysis
- Proof Checking of Design & Drawings
- Preparation of Pre Bid reports including collection of preliminary data from site

### Project Work:

2. Construction and upgradation of existing road of 2-lane with paved shoulder from km. 20.340(Rongali Bazaar) to Km.26.588(Rongali Bypass End) and upgradation of existing road at km.20.600 & Km.26+400 for length of 0.520km & 0.554Km of Rehnok – Menla Spur (NH-717B) package-II A.
3. Widening of existing road of 2 lane NH standards along with improvement and realignment from Potin to Pangin Aalong (Package – 5,6 ).
4. Up – gradation of two lane with paved shoulder from Km12+850 to Km. 20+300 of 7.450Km. length on Goha – Khelanai section and a link road of Goha village of 2.016 Km on NH-244 in Union Territory of Jammu & Kashmir.

Jul 2019 to Oct 2021

Structure Engineer

Ecstatic Engineering Consultants Pvt. Ltd.

Description of Duties

As Structure Engineer, responsible for the following:

- Structural Design of National and State Highway Bridges
- Analysis and design of RCC bridges.
- Preparation of Technical Schedules as per NH Act, 1956.
- Provide technical input to assigned projects assisting in the development of conceptual design
- Ensure conformance with all applicable codes, standards, and client requirements
- Involved in preparation of calculations and drawings
- Perform calculations for analysis
- Proof Checking of Design & Drawings
- Preparation of Pre Bid reports including collection of preliminary data from site

### Project Work:

No. of Project : 12

1. Construction of 8 lane carriageway starting near Junction with NH-11 from Chainage 183+000 to 214+260 section of Delhi – Vadodara Green Field Alignment (NH-148N) on EPC mode under Bharatmala Pariyojna in the state of Rajasthan for Gawar Highway Pvt. Ltd.
2. Construction of 6 lane access controlled highway (NH-152 D) starting from Junction with NH-352 (Jind – Gohana) near Julana to junction with NH-9 Rohtak Section near Kharkara (chainage 108+000 to 131+000) on EPC mode under Bharatmala Pariyojna in the state of Haryana for Gawar Highway Pvt. Ltd.
3. 4 Laning Jhanjhi to Demoh section of NH-37 from the existing chainage Km. 491+050 to Km. 535+250 in the State of Assam under EPC mode for Gannon Dunkerley & Co. Ltd.

## CURRICULUM VITAE

**Rohit Prasad**  
**Mobile No. 8383801751**  
**Email: rohite94@gmail.com**

4. 6 Laning Narnul Bypass crossing to Paniyala more (NH-148 B) at (NH-48 Junction)= 31 Km., Nizampur Link road= 2.76 Km and Namul Bypass crossing to Pacheri Kalan=11.3 Km ( NH-11) in the state of Haryana under Bharatmala Pariyojna on Hybrid Annuity Mode for Gawar Highway Pvt. Ltd.
5. Construction of six – Lane access controlled highway (NH-152D) Starting from Junction with Jind – Safidon road(SH-14) near Kheri village to Junction with NH – 352(Jind-Gohana section) near Julana(Ch-80+000 to 108+000,Length 28Km) on EPC Mode under Bharatmala Pariyojana in the State of Haryana for Shiv Build India Pvt. Ltd..
6. Widening & Reconstruction of Madhya Pradesh Major District Roads Upgradation Project (MPMDRUP) – Package – P4 (A)(NDB): Padora – Gora – Pichhore Road (MP-MDR-07-09) & Pichhore-Basai road (MP-MDR-07-03),under Gwalior Division(M.P).
7. Construction of Four Lane ROB at Km.30.00 on NH-162E(Pali-Nadol section)Crossing the Falna-Marawar railway Section At L/C No.C-67 Near Somesar in the state of Rajasthan.
8. Four Laning of Rajauli-Bakhtiyarpur section of new NH-20 (Old NH-31) From Design Chainage 54+405 to 101+630(Design Length 47.225km) in the State of Bihar on Hybrid Annuity Mode.
9. Construction of Four Lane Elevated Road for an Exclusive Connectivity from PMCH to construction Ganga Path at Ch. 7+400 Km. at Patna in the state of Bihar on EPC Mode.
10. Four Laning of Rajauli-Bakhtiyarpur section of new NH-20 (Old NH-31) From Design Chainage 101+630 to 152+000 in the State of Bihar on Hybrid Annuity Mode.
11. 4-Laning of Dewas Ujjain section of old SH.18 from Design Ch. 0+000 to 19+733, Construction of 4-Lane Ujjain Bypass from Design Ch.19+733 to 26+900(Part-1) and construction of 4-lane Dewas Bypass from Design Ch.0+000 to 14+520(Part-2) having total Design Length:41042km in the state of Madhya Pradesh on HAM Mode.
12. Construction of Flyover at Mandi Gobindgarh at (Existing Km260+800) including resurfacing of existing service road at location of flyover at Km.260+800 on Jalandhar Panipat Section of NH-44(old NH-01) in the state of Punjab on EPC Basis.

**No. of Highway and Bridge projects Designed:** 12 (As above).

**Familiarities with Design Software:** AutoCAD, Stadd Pro, Midas, AutoCAD Civil 3D, MS-Office

### Hobbies:

- Reading, Sports

### Languages:

Language	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent
Hindi	Excellent	Excellent	Excellent

### Undertaking:

I, the undersigned certify that to the best of my knowledge and belief, this data correctly describe me, my qualifications and my experience.

\_\_\_\_\_  
(Signature)

Date: \_\_\_\_\_  
Day / Month / Year

### **About the Speaker/Guest:**

Mr. Rohit Prasad, an alumnus of the Department of Civil Engineering, was the speaker at the event. He is currently working as Assistant Structure Engineer, at Feedback Infra Pvt. Ltd., Gurugram.

### **Audience:**

16 attendees from the department of civil engineering participated in this Expert Cum Alumni Talk.

### **Brief Report:**

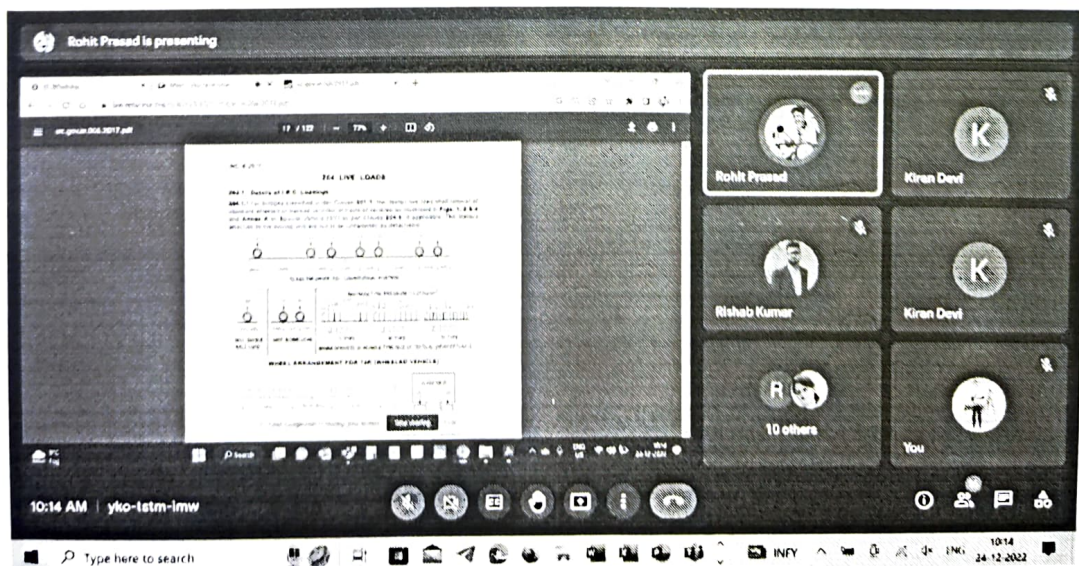
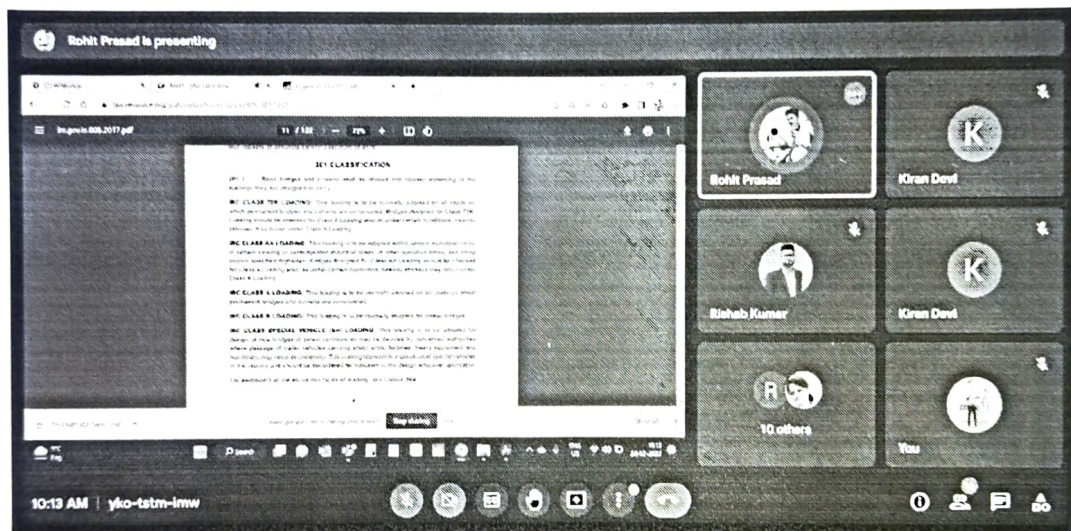
A bridge is a structure built to span a physical obstacle (such as a body of water, valley, road, or rail) without blocking the way underneath. Bridges have a special place in transportation infrastructure due to their direct relationship with other places. The prime objective of a bridge design in the civil domain is to produce a safe bridge that is elegant and satisfies all functionality requirements, at a cost that is acceptable to the constructor. To familiarize the students with the basic concept of the design of bridges, the Department of Civil Engineering (FEAT) organized an **Expert cum Alumni talk titled 'Design of Bridges' on 24 December 2022 at 10 AM in online mode (Google Meet)**. Mr. Rohit Prasad, Assistant Structure Engineer, Feedback Infra Pvt. Ltd., an Alumnus of the Department of Civil Engineering, was the speaker at the event. The speaker focussed on the four basic stages involved in designing bridges: conceptual design, preliminary design, detailed design, and construction design. Also, the speaker elaborated on the concept of designing culverts. He deciphered the IRC codes involved in designing bridges. Students raised queries during the session and the speaker addressed all of them.

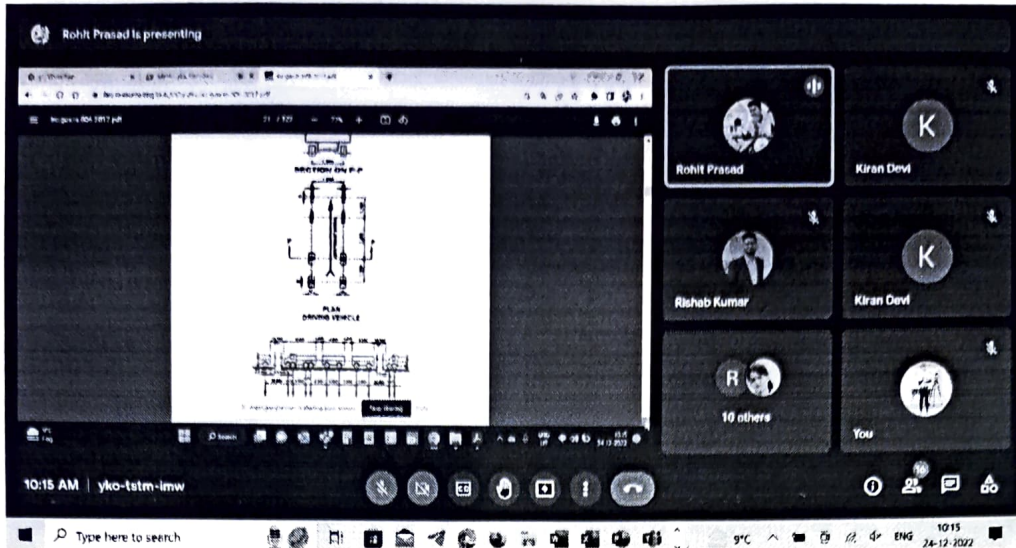
### **Learning Outcomes:**

Students learned about the designing principles involved, with reference to IRC, in culverts and bridges. In addition to this, students learned about the four basic types of bridges in detail, such as, Beam bridges, Arch bridges, Cantilever bridges, and Suspension bridges.

Faculty of Engineering & Technology  
SGT University  
Gurgaon (Haryana)

## Event Photographs:





### Demonstration of Specifications of Bridges

#### List of Participants:

Reg. No.	Name
1. 221301002	KUNAL
2. 221301003	KHAGESH
3. 221301004	RISHABH
4. 221301005	RAHUL
5. 221301006	SUMIT
6. 221316003	SRINIVASARAO VASKURI
7. 221316004	S PRADEEP KUMAR GADIPUDI
8. 221316005	KALYANCHOWDARY CH
9. 221316006	APARNA G ASOK
10. 221316011	ANIL
11. 221316018	AJAY YADAV
12. 221316014	KHUSH PAL
13. 221316015	URMILA

#### Faculty Members:

1. DR. NEERAJ SAINI
2. DR. KIRAN DEVI
3. DR. ADITYA KAPOOR



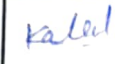




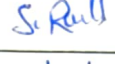
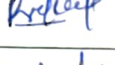
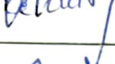
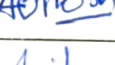
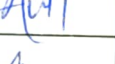


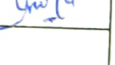
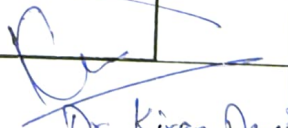
# Shree Guru Gobind Singh Tricentenary University Haryana

## Faculty of Engineering and Technology

Department: Civil Engineering

Event Title: Design of Bridges

Date: 24/12/2022

S.No	Enrollment no.	Name	Course/Semester	Signature
1	221301002	Kunal	B.Tech	
2	221301003	Icha gesh	"	
3	221301004	Rishabh	"	
4	221301005	Rahul	"	
5	221301006	Sumit	"	
6	221316003	Srinivasarao	M.Tech	
7	221316004	S. Pardeep kumar	"	
8	221316005	Kalyan chowdary	"	
9	221316006	Apurva G. Asok	"	
10	221316011	Anil	"	
11	221316018	Ajay Yadav	"	
12	221316014	Khusb Pal	"	
13	221316015	Vermida	"	
14				
15				
Coordinator(s) (Name, Department and signature)				 Dr. Kiran Devi

Dept. of Civil Engg.

Department of Civil Engineering  
Faculty of Engineering & Technology  
SGT University  
Gurgaon (Haryana)

Dean  
Faculty of Engineering & Technology  
SGT University  
Gurgaon (Haryana)