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**Report: Industrial/Educational Tour to Atal Tunnel (21st to 23rd October 2023)**

**Introduction**

The Electronics and Communication Engineering (ECE) department of Rajiv Gandhi Govt. Engineering College Kangra organized an educational tour for the 5th-semester students from October 21st to October 23rd, 2023. The primary goal of this tour was to offer students real-time exposure to major infrastructure projects, with a special focus on the Atal Tunnel and its related technologies.

**Itinerary**

**Day 1: October 21st, 2023**

- The tour commenced with a departure from RGGEC Kangra at Nagrota Bagwan in the morning.
- The students reached Manali in the evening, where they checked into their accommodations.

**Day 2: October 22nd, 2023**

- The highlight of the tour was the educational visit to the Atal Tunnel.
- Permission for the visit was obtained from the Border Roads Organization (BRO) after a fee of Rs. 5,000 was deposited for a 2.5-hour tour.
- The students had the opportunity to explore the model room within the Atal Tunnel.
- A comprehensive presentation was conducted by Mr. Javed, an engineer at the Atal Tunnel, covering various aspects of the tunnel, including its construction, sensor systems, ventilation mechanisms, emergency procedures, and the functioning of sensors.
- Charts and informational displays were used to facilitate understanding.
- The students were also informed about upcoming BRO projects in the Shipkila range, and a model representation of terrains up to Leh-Ladakh was presented.
- The tour continued with a visit to emergency exits, where students witnessed demonstrations of the public address (PA) systems and surveillance cameras that are crucial for traveler safety.
- The students were then taken to the evacuation tunnel located beneath the main tunnel, and the operation of the Detronics sensors was explained.

**Day 3: October 23rd, 2023**

- The return journey to Nagrota Bagwan commenced around 9:00 a.m..
- The students arrived back in Nagrota Bagwan at approximately 9:00 p.m.

**Recreational Activities**

In addition to the educational components, the tour also provided students with a chance to relax and explore the scenic surroundings. This included visits to attractions such as Hidimba Devi Temple in

Manali (a place of historical and spiritual significance, enhancing their cultural knowledge), Sisu Lake and Waterfall and International Dussehra Fair in Kullu, adding a recreational dimension to the tour.

## Conclusion

The educational tour was a resounding success, effectively blending academic enrichment with leisure activities and cultural exploration. It empowered the students with a profound understanding of the Atal Tunnel's significance and the role it plays in enhancing regional connectivity. The practical insights gained during this tour will undoubtedly contribute to their academic and professional growth. We express our sincere gratitude to the Border Roads Organization and the Atal Tunnel team for their cooperation and support throughout the tour. Such experiential learning opportunities are invaluable in shaping well-rounded engineers.

Attachments: Photographs of the tour.



A visit of Model Room of world's longest high-altitude road tunnel (Atal Tunnel) by the ECE students





Visiting 7th entry point of the evacuation route of the Atal Tunnel



Having insights into the various electronics sensors employed for measuring parametric changes in the inner environment of the tunnel



A snapshot inside of the Atal Tunnel where stopping is prohibited for general public



A group photo at the “Kash” style Hanogi Mata Temple