



Kalyani Charitable Trust's  
**Late G. N. Sapkal College of Engineering**

Kalyani Hills, Anjaneri, Trimbakeshwar Road,  
Nashik – 422 213



Ref: KCT's / LGNSCOE/Civil/ 2022-23/

Date: 15/10/2022

**DEPARTMENT OF CIVIL ENGINEERING**

**NOTICE**

The Civil Engineering Students Association (CESA) is organizing an educational visit to D. B. Patil International Airport, Navi Mumbai. The purpose of this visit is to understand the basics of airports, and design runways, taxiways, and drainage systems.

For registration and more details, kindly contact the following resource person(s)

**Staff Coordinator**

Prof. K. M. Deore – 7249739924

Prof. Dr. D. P. Joshi - 7038487647


**Student Coordinator**


Shinde Avinash Atmaram – 8148996148

Kadam Mayuri Bhaskar - 7378926151

  
Prof. S. J. Pagar  
CESA  
Coordinator

  
Prof. K. M. Deore  
Visit  
Coordinator

  
Prof. R. M. Jadhav  
Head  
Department of Civil  
Engineering

  
Prof. Dr. S. B. Bagal  
Principal  
LGNSCOE  
Prof. (Dr.) Sahebrao B. Bagal  
Principal  
Late G. N. Sapkal College of Engineering  
Anjaneri, Nashik-422 213.





**KALYANI CHARITABLE TRUST'S**  
**LATE G. N. SAPKAL COLLEGE OF ENGINEERING**

Kalyani Hills, Anjaneri-Vadholi, Trim bakeshwar Road, Dist: Nashik - 422 212 (India)  
Tel.: +91 - 2594 - 220168/71, Fax: +91 - 2594 - 220174  
Website: [www.sapkalknowledgehub.org](http://www.sapkalknowledgehub.org) E-mail: [gns\\_engineering@sapkalknowledgehub.com](mailto:gns_engineering@sapkalknowledgehub.com)



Date: Nov. 18, 2022

**Industrial Visit Report**

**BE-Civil**

**A VISIT REPORT ON AIRPORT AND BRIDGE ENGINEERING**

**Department of Civil Engineering in association with CESA**

**Late G. N. Sapkal College of Engineering, Nashik.**



**D. B. Patil International Airport Site Visit Report**

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**Venue:** D. B. Patil International Airport, Navi Mumbai

**Date:** Nov. 13, 2022

**Class:** BE

**Number of Students:** 52

**No. of Teachers:** 02

**Mode of Transportation:** Bus

**Travelling Distance:** 220 km (One Side)



**Figure 1: While departing from Nashik New CBS towards D. B. Patil Airport**



## **Introduction**

The Civil Engineering Students Association with the Department of Civil Engineering of the late G. N. Sapkal College of Engineering, Nashik, organized a one-day visit to D. B. Patil International Airport in Navi Mumbai on November 13, 2022, for the students of final year Civil Engineering (BE) course. This visit was conducted with the prior approval and guidance of the eminent Principal Dr. S. B. Bagal and the Head of the Department of Civil Engineering Prof. R. M. Jadhav. Faculty members Dr. D. P. Joshi and Prof. Kiran Deore accompanied 50 students of the BE Civil Program on the industrial visit. D. B. Patil International Airport covers an area of approximately 1162 hectares and is located in the western part of the city. The total cost of this project is approximately 16,700 crore.

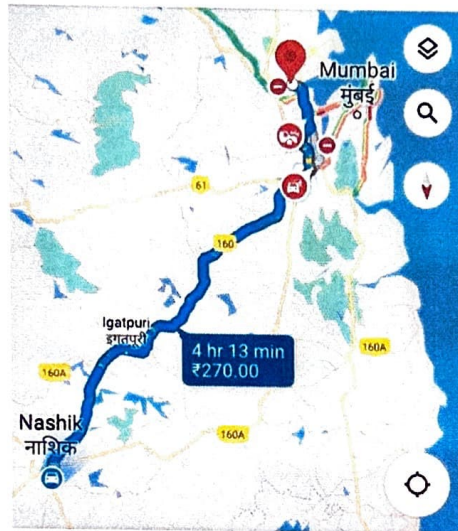
## **Objectives of the Airport Site Visit**

1. Understand the basics of airports.
2. Understand and design runways, taxiways, and drainage systems.
3. Introducing aspects of the airport system.
4. Review plans and specifications for airport planning and design.
5. Participate in the planning and design of new runways and terminal buildings.
6. Understand BIM, AR, and VR in airport planning and road design.
7. Plan lighting and signage for airports and helipads.
8. When inspecting the airport site, the engineers involved initially provided safety information.
9. Students were informed about the ongoing work at the airport site.
10. Students were informed about the ongoing work on the runway.
11. The students explained in detail about the materials needed for work at the airport, such as blasting equipment and geopolit.
12. We received information that a mountain airstrip was blown up.

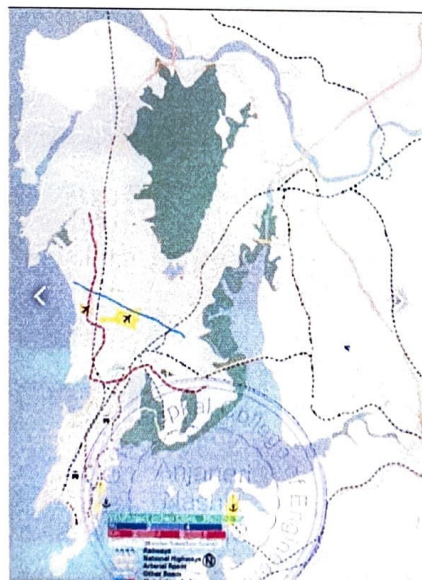


### **Permission for the Visit**

The college wrote a permission letter to Hemant Godse, MP from Nashik Lok Sabha constituency. The honorable member sought permission from the Director General of the Airports Authority of India. This process took approximately 7-8 days.



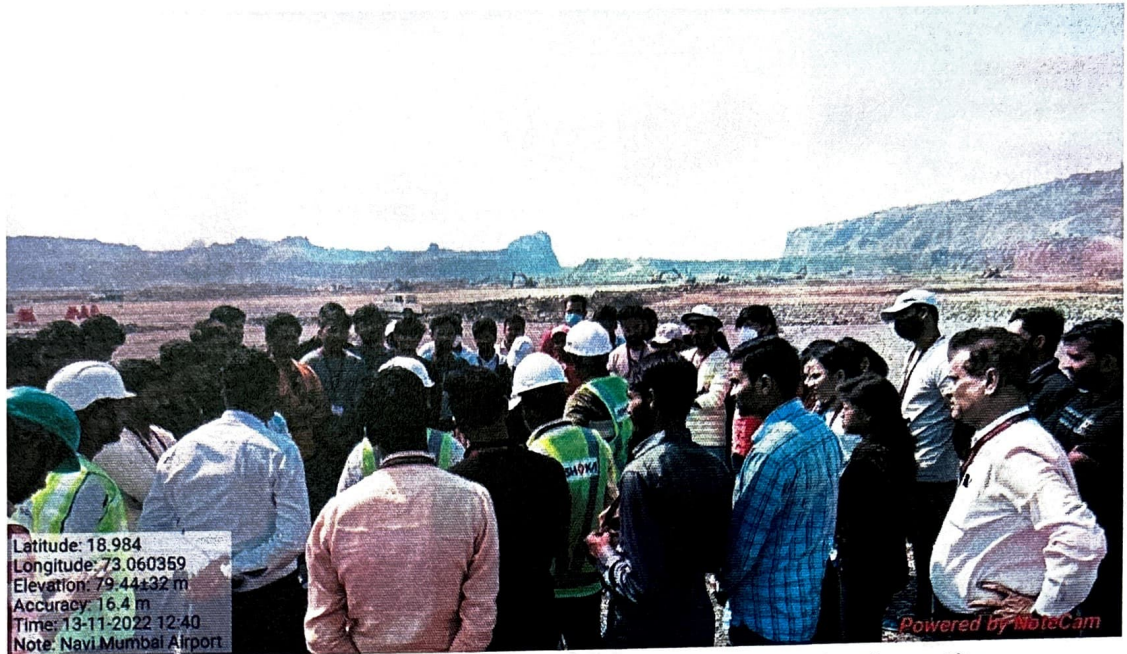
**Figure 2: College to Route Airport Site Bus**



**Figure 3: Satellite View of D. B. Patil Airport Site**

## D. B. Patil International Airport Site Visit Report

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**Figure 4: Students are learning about safety and precautions at the Airport Site**

1. Acknowledged students about the secure positions of power transmission towers and hangers on the taxiway.
2. The actual area of the airport site is approximately 1162 hectares.
3. Two runways and four taxiways will be constructed on this airport site.
4. According to the central government, the goal is that one runway and two taxiways could be built by 2025.
5. As it is an international airport, the actual length of the runway is 3.9km, which may allow large aircraft and cargo planes to land in the future.
6. A drainage system is installed in the scolder throughout the runway and taxiway.
7. The fixation of rock asphalt and all other materials used in the construction of the runway is carried out using the geopolisin method.
8. The runway has an inner layer approximately 10-12 meters deep for strong support and can support the weight of the aircraft.
9. D. B. Patil Airport runway width is approximately 75m.
10. There is a terminal building and control tower near the runway, which are currently under construction.
11. The rock file on the runway is about 500mm.
12. The runway consists of three levels.
  - i. Runway type A less than 300mm
  - ii. 900mm Type B material Bottom 125mm
  - iii. Flexible pavement
13. Runway RL is 9.5 m whereas, thickness is 925 mm





**Figure 5: Students are taking information on materials used for the construction of the Runway**

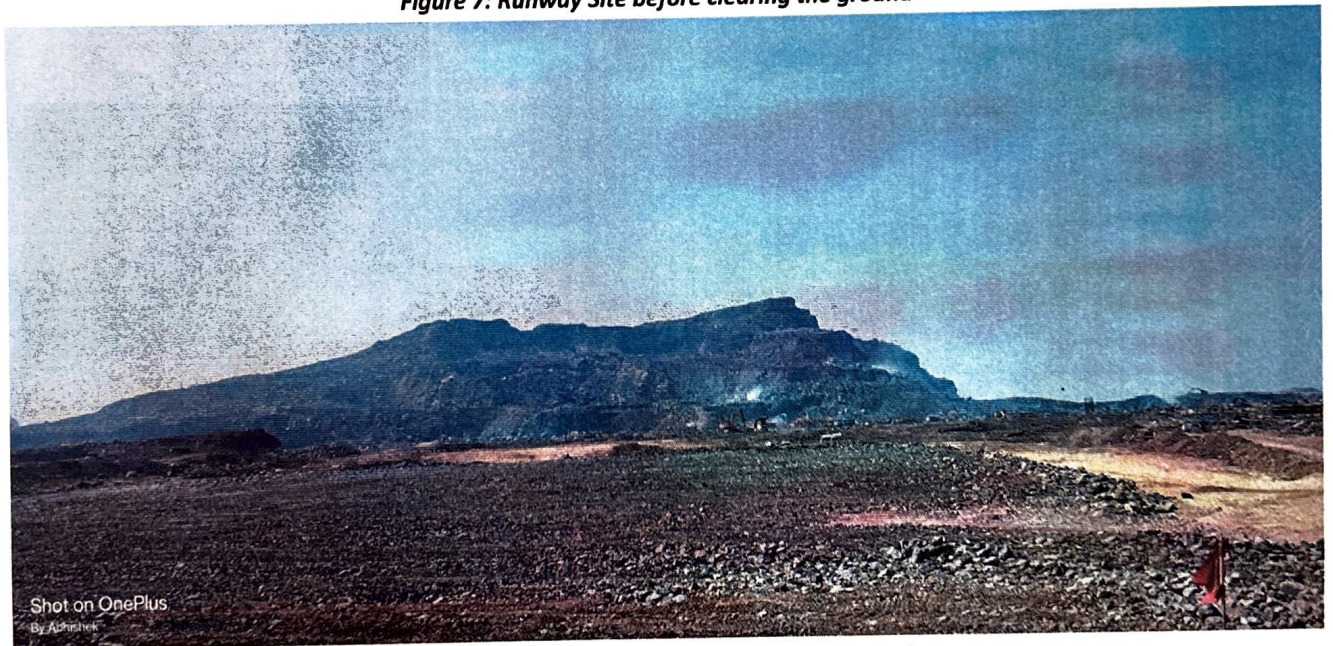


**Figure 6: Students are studying the different layers of the runway**





**Figure 7: Runway Site before clearing the ground**



**Figure 8: Runway site after clearing the ground**



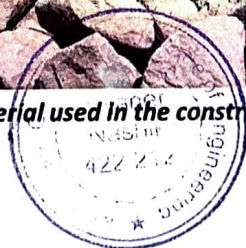




**Figure 9: Students are learning and studying the construction process of the Runway**




**Figure 10: Local material used in the construction of the runway**






*Figure 13: Along with the educational trip, the students also spent some time at the seashore and enjoyed some moments at Uran Beach*

  
Prof. S. J. Pagar


**CESA  
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Prof. K. M. Deore

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**Civil Engineering Students Association (CESA)**

In association with

**Department of Civil Engineering**

**Industrial Visit**

**Student Attendance Report**

**Date: 13/11/2022**

**Venue: D. B. Patil International Airport, Navi Mumbai**

Sr. No.	Name of Student	Class
1	Sajal Sandeep Navlakhe	BE - A
2	Shreepad Shankar Wagherkar	BE - A
3	Khairnar Piyush Vijay	BE - A
4	Lalit Shantaram Mulane	BE - A
5	Yogesh Vilas Chaudhari	BE - A
6	Khedulkar Puja Avinash	BE - A
7	Khambait Rohini Chintaman	BE - A
8	Aher Prashant Prabhakar	BE - A
9	Aher Rupali Sanjay	BE - A
10	Bagul Rahul Prabhu	BE - A
11	Nirmalkumar Mangaldas Baisane	BE - A
12	Bhalerao Akash Rajendra	BE - A
13	Bhaskar Mayur Pravin	BE - A
14	Bhavar Vijayshree Rambhau	BE - A
15	Yash Vinod Bhavsar	BE - A
16	Rohit Laxman Bodke	BE - A
17	Pratik Jalindar Borse	BE - A
18	Khairnar Digvijay Shravan	BE - A
19	Viraj Sunil Khande	BE - A
20	Ajay Ramnath Kharat	BE - A





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21	Mansi Ravindra Godge	BE - A
22	Rutuja Suryabhan Kharde	BE - A
23	Shreejeet Sudhakar Kothawade	BE - A
24	More Mahendra Ambu	BE - A
25	Narkhede Rajesh Dnyandeo	BE - A
26	Deshmukh Roshan Sanjay	BE - A
27	Gangode Sandip Jagdish	BE - A
28	Ahire Tanmay Sanjay	BE - B
29	Avhad Siddesh Sanjay	BE - B
30	Bharast Dyaneshwar Bharat	BE - B
31	Bhoye Rahul Nandram	BE - B
32	Borse Rahul Ramdas	BE - B
33	Chavanke Mohan Shivaji	BE - B
34	Dargude Manisha Sanjay	BE - B
35	Deokar Shivam Hanumanta	BE - B
36	Desale Aditya Rajendra	BE - B
37	Dhindale Aparna Amol	BE - B
38	Jadhav Akshay Tulshidas	BE - B
39	Jadhav Shivam Anil	BE - B
40	Kothawade Gaurav Govind	BE - B
41	Kumavat Lalit Anil	BE - B
42	Kumavatrohit Vijay	BE - B
43	Kuwar Deepika Subhash	BE - B
44	Mahale Nikita Jaywant	BE - B
45	Mohite Kawarsingh Suklal	BE - B
46	Mokal Rohit Sharad	BE - B
47	Padvi Mukesh Pandit	BE - B
48	Pagare Tushar Suresh	BE - B
49	Pandit Roshan Vasant	BE - B
50	Pardeshi Rushikesh Satish	BE - B





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51	Patil Prashant Bhagwan	BE - B
52	Patil Rahul Kalyan	BE - B

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