

# CERTIFICATE

---

This is to certify the students listed below are enrolled in the Chemical Engineering Department of HBTU, Kanpur.

- **Mr. Aditya Singh,**  
(Roll No. 1404551002)
- **Mr. Rohit Goswami**  
(Roll No. 1404551040)
- **Ms. Shaivya Anand**  
(Roll No. 1404551044)
- **Mr. Sunil Saroj**  
(Roll No. 1404551049)

They are in good standing and have completed their B.Tech project as per the requirements of obtaining their degree to the satisfaction of the undersigned.

**Prof. Ashwini Sood,**

*Project Guide*

**Prof. S.K. Gupta**

*HOD, ChemE*

# **ABSTRACT**

---

In this project we have studied and validated the analysis of a gas sweetening unit. We have delved into computational generalizations to extend our analysis and have also used model data and parameters from an existing plant.

The process control aspects have been shown with reference to standard flow sheets. Cost estimates and analysis is covered with the help of standard indexes and known profitability measures. Hazard management and process descriptions have also been indicated.

# ACKNOWLEDGEMENTS

---

We would like to thank our department HOD, Prof. Gupta, for inspiring us.

Our project guide, Prof. Sood was instrumental in both our project direction and our learning objectives.

We gratefully acknowledge the moral support from our family, friends and classmates.

We would also like to register our thanks to the department staff and the University facilities afforded to us, during our bachelor's degree.