**PREFACE**

**The trick to having good ideas is not to sit around in glorious isolation and try to think big thoughts. The trick is to get more parts on the table.**

*-* [Steven Johnson](http://www.goodreads.com/author/show/1563.Steven_Johnson)

If a picture is worth thousand words then a face to reality is priceless.

Project provides an engineer one such opportunity to explore the practical aspects of one’s technical knowledge apart from giving a firsthand experience to the professional work environment and opportunity to meet the strong technical work force.

We would like to thank everyone concerned for their time, enthusiasm and effort. Bhilai Steel Plant provided all the data needed for the project.

The project report focuses on the **Study of the Electrical system of the new Power and Blowing Station II** **(PBS-II)** and **the Emergency calculations for power requirements in case of power failure**.

Finally, we regret any inadvertent errors that might have crept in. We hope that reading these proceedings is joie-de-vivre.

**ACKNOWLEdgement**

In preparing these proceedings we have been fortunate to receive valuable guidance, kind support, suggestions, inspiration and assistance from our guide and his colleagues. We greatly appreciate their generosity in devoting their valuable time to help us in pursuing this project.

It is with feelings of profound thankfulness and deep sense of gratitude that we acknowledge the invaluable guidance and consistent encouragement rendered to us by**Mr. V. S. DEWANGAN (AGM, PP-I)** Bhilai Steel Plant (SAIL), India. He spared valuable time from his busy schedule for us and helped us by guiding for the project. Our sincere thanks to **Mr. Dewangan** for all the help and resources that were made available to us.

We are deeply indebted to our **PS Instructor Mr. Ashutosh Bhatia** for his constant assistance and help in facilitating and organising the various activities regarding the Summer Internship.

We would also like to thank our **Project Mentor** **Dr. G.R. Sabareesh** for his valuable input regarding the project.

We arealso thankful to **Mr. V.M. Rao, Pankaj Rathore** and all the respected individuals who were directly or indirectly involved inthe successful completion of our Technical project.

Mihir Kumar

Himanshu Gupta

Salil Jain

Anshul Dubey

**DECLARATION**

We hereby declare that project work entitled “**Study of the Electrical system of the new Power and Blowing Station II and Emergency calculations for power requirements in case of power failure.**” is an authentic record of our own work carried out at the Power and Blowing Station (PBS-2) of Bhilai Steel Plant under the supervision of **Mr. V.S. DEWANGAN** and the guidance of **Mr. Ashutosh Bhatia**, during 22nd May 2017 to 15th July 2017.

Mihir Kumar

Himanshu Gupta

Salil Jain

Anshul Dubey

**CERTIFICATE**

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**BHILAI STEEL PLANT**

This is to certify that report entitled “**Study of the Electrical system of the new Power and Blowing Station II and Emergency calculations for power requirements in case of power failure.**”, which is submitted by Himanshu Gupta, Mihir Kumar, Anshul Dubey and Salil Jain; pursuing B.E. (Hons.) at BITS Pilani Hyderabad Campus; is a record of candidates’ own work carried out by them under my supervision. The matter embodied in this project is original and has not been submitted for the award of any other degree.

Shri V.S. DEWANGAN

(Assistant General Manager)

Power and Blowing Station SAIL-BSP