A REPORT ON TRAINING AT ALFA TRANSFORMERS CO. HIMATNAGAR SUBMITTED BY:

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<th>SR. NO.</th>
<th>ENROLMENT NO.</th>
<th>NAME OF STUDENT</th>
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<td>1</td>
<td>120560109002</td>
<td>JOSHI BRIJESH R.</td>
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<td>120560109028</td>
<td>NANDANIYA BHAVEST V.</td>
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<td>120560109054</td>
<td>BHATT AKASH R.</td>
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<td>120560109059</td>
<td>SUTHAR UPENDRA I.</td>
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DEPARTMENT OF ELECTRICAL ENGINEERING
GROW MORE FACULTY OF ENGINEERING
It is always a pleasure to remind the fine people in the Engineering Industry for their sincere guidance we have received to provide us practical as well as theoretical skills in engineering.

An industrial training was undergone for a week from 5th January 2015 to 9th January 2015 at Alfa Transformers Co., 107 – GIDC Estate, N.H. - 8, Motipura, Himatnagar. Firstly we would like our Department of Electrical Engineering for giving us the platform to undergo such a wonderful training. Secondly we would like to thank Prof. Hirak Shah for his continuous efforts and guidance provided to us regarding industrial training.

We would also like to thank Prof. Bharat Suthar, Dr. Samir Patel & Prof. Ronak Patel for the continuous motivation and support and giving us the permission to undergo such training. Last but not the least we would like to thank all the staff of Alfa Transformers Co for all the explanation and answering our queries regarding transformers. Finally we apologise all other unnamed who helped us in various ways to have a good training.

The training started on 5th January 2015 with the welcome address by Engineer of Alfa Transformer. He gave brief introduction about Industries. He also explains Principle of Transformers & also introduces other engineers and technical staff to us.

ALFA TRANSFORMER REPAIRING AND MANUFACTURING COMPANY is a small company in Himatnagar in Gujarat. It manufactures and repairs almost all types of distribution Transformer. This company is the second largest manufacturer of Distribution Transformers in Himatnagar. It is spread across a sprawling area, their production unit boasts of world class machinery, empowering ALFATEK transformers with the capability to meet the exact demands of even the most discerning clientele.
This training covered the theory, operation, maintenance and testing of power transformers and auxiliary equipment. It also includes transformer fundamentals, transformer ratings, transformer cooling, nitrogen gas systems and insulation systems. The source concludes with in-depth discussions on transformer testing techniques. This training is applicable to technicians and engineers who need a sound understanding of power transformer operation and maintenance.

We learnt safe and proper maintenance and testing procedures on pad-mounted, power transformers. The training covers transformers used in commercial and industrial power distribution systems, including oil and dry-type units. Larger power transformers used in utility applications are also covered. Load & no-load tap changer maintenance, ac and dc testing, routine inspections and oil sampling and testing are covered in detail. We learn how to perform routine oil tests, and understand how to perform the major tests that are required. A variety of electrical test equipment from various manufacturers will be discussed.
COURSE OUTLINE:

1. Transformer Basic Principle & Operating Principles
2. Classification
3. Magnetizing Circuits
4. Cooling of Transformers
5. Transformer Loading
6. Transformer Tap Changers
7. Insulation Testing
8. Transformer Faults
9. Differential Relaying

At last we shared our experiences during training with managerial staff. We heartily thank Grow More Faculty of Engineering and Alfa Transformer Company, Himatnagar for giving us opportunity to attend such an informative training. Educational training in Transformer and High Voltage Distribution system organized by Department of Electrical Engineering was very informative. The Alfa Transformer's Repairing and Manufacturing plant we visited is one of Himatnagar's major repairing and manufacturing company. The guiding staff both college staff as well as company staff was very supportive to us. We hope that this training will help us in our future practical life and bring a positive change in our thinking and practical behaviour in our future Engineering career.

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