

DESIGN OF A COMPRESSED AIR SUPPLY SYSTEM

Project report submitted by

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in part satisfaction of the award of the Diploma of
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Type of Project: Individual.

HIGHER TECHNICAL INSTITUTE	PROJECT NO 1561
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ABSTRACT

This project deals with the design of compressed air system.

The design was done based on air requirements for the Mercedes Garage. It is a study of air requirements calculations for the piping internal diameter needed. Selection of the compressor air dryer and air receiver size. Also a cost analysis was performed to figure the money spent for such a plant.

This project was not only concerned with actual design but it also concerned with theory which discuss briefly the following:

Methods and types of compression and also compressor types. Also discuss the duty of compressor ancillary equipment.

Guide line of how to construct and install compressor room. Also gives guides which must be for followed for the calculations of the air consumption of the plant.

Finally guides lines and suggestions are given how to construct the distribution systems to suit such cases as Mercedes Garage.

At the appendices there are tables of pressure drop in pipes and some other informations as to help anyone who want to avoid calculation.

At the end of the book construction drawings are given based on the design

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