**FINANCE AND PROJECT MANAGEMENT**

**Hardware**

Since it is a simulation based project a commercial PC with the following configuration is used.

Table 5.1: System Configuration and price

|  |  |  |
| --- | --- | --- |
| **Unit type** | **Unit model** | **Price (Rs.)** |
| CPU | Intel Core i5 | 42,500.00 |
| Clock | 2.67 GHz |
| RAM | 4GB |
| HDD | 500GB |

**Software**

The software used for this project is MATLAB R 2018a and 2019a with additional Toolboxes. The price of each of these Toolboxes along with the total cost is shown in Table 5.2.

Table 5.2: Software configuration and price

|  |  |
| --- | --- |
| **Module type** | **Price (Rs.)** |
| MATLAB 2019a version( Purchased by college including tool boxes) | 1109558/- |
| Power system and Power Electronics Toolbox |  |
| Total | 1109558/- |

**TIME MANAGEMENT AND SOCIETAL & ENVIRONMENTAL IMPACT**

**Time Management**

The total duration of the project work is 24 weeks with 36 hours spent each week. This entire duration can be divided in to two phases with each phase taking eighteen weeks. In phase 1 ,presentation 1, complete literature survey is done. In phase 1, presentation 2 , the problem in existing method is identified. Mathematical model of the proposed method is developed and identified the software version that are required to simulate the proposed algorithm i.e., MATLAB R2019a .

In phase 2, presentation1, gone through some books to acquaint myself to the Matlab software and some important tool boxes that are available in the Matlab. Simulink model for the basic model is simulated using Matlab. In phase 2, presentations 2, the limitations of the existing method in the base paper are recognized. Identified the new method by having a study on various papers to overcome the problems in base paper techniques. Developed the Mathematical model of the new method. The Simulink model is developed for the new method and simulated the project successfully. Finally project thesis were prepared and submitted.

**Societal and Environmental Impact**

Usually multilevel converters are used for power supply of grid. By using the controllers we can get the improved or error less output. This filtered output helps the society in

1. Uninterrupted power supply
2. High quality output

The most common application of multilevel converters include reactive power compensation, adjustable speed drives, back to back compensation.