Appendix E

Softwares:

1. Energy calculator: It is a simple software to calculate the energy consumption, its cost and saving due to use of star marked appliances can be found out quickly and efficiently.

   It is a software developed using VB and SQL, where by inserting the number of appliances and their marked Watts e.g. 40W tube light, 60W Fan, 15 W LED etc. and their numbers and hours of use the total energy cost per day/month/year may be found instantaneously. Moreover by clicking the number of star mark of the appliances like Airconditioners, Refrigerators, Geysers etc. the saving can be calculated.

   It is

2. Refrigerant Indicator: It is the most important software to indicate the amount of refrigerant inside an airconditioner without actually measuring it.

   It is based on detail experiments conducted using energy star-marked split airconditioner (1.0 ton) and measuring the outlet temperature of the compressor by putting a thermometer connected to the outlet tube. The temperatures noted down after every 15/30 minutes (about 10/12 readings) can be put in the software which will indicate the amount of refrigerant inside the airconditioner. It is found that the indication is about ± 2% accurate.