

## **Best Practice Documentation of Energy Savings in CMC Ramanagar Municipality.**

### **1. Situation Before: -**

In Ramanagar CMC Unit the City Centre Railway Board Road Pertaining to Ward No. 11 was Considered for pilot Project regarding Energy Conservation in street light Circuit System.

Before Implementation of pilot project the load details are as follows:

- a) 250 watts M.H fixtures – 16Nos.
- b) 250 watts M.H Flood light fixtures – 8 Nos.
- c) Total load – 6 KW
- d) Average Daily Consumption – 72 Units/day
- e) Illumination level -24 lux at the bottom of luminary

### **2. Description of Initiative:-**

The Proposal was submitted by REI – Electronics Private Limited Mysore regarding Conservation of Energy through ESCO Model (Energy Saving Companies) as per the Directions of Deputy Commissioner and Council body Initially Approval was accorded for a pilot project for street light circuit in railway bridge road pertaining to ward no.11 Conventional Street light were replaced by low energy Consumption LED Street lights.

After Implementation of pilot project the following improvements regarding energy conservation is observed.

- a) 75 watts L.E.D Fixtures-16 Nos.
- b) 50 watts L.E.D Fixtures-10 Nos.
- c) Total Load- 1.7 kv
- d) Average Daily Consumption – 20.60 Units
- e) Illumination Level – 24 lux at the bottom
- f) Energy saved after Implementation-72 % Energy Saved

### **3. Challenges Encouraged**

- a)As the Bescom Bill appears to be random daily reading were Monitored Everyday.

b) Initially lux level was not Uniform so again proper design was made to Eliminate the problems

c) Council Members approval regarding reliability of the Project

#### **4. Learning**

By replacing Conventional Street with low Energy Consumption street lights Like LED, Induction, CFL

Lamps the Energy can be saved and their & a huge opportunity for Conservation of Energy in Street light system and reducing the financial burden to the urban local body and the maintenance burden is reduced the better serve can be provided for the public.

#### **5. Achievements:**

Through this pilot project about 72% of the energy is saved and the good response from elected representatives and public and there low maintenance risk involved.

#### **6. Sustainability**

As the project has huge potential for Conservation of Energy and their is no financial burden for urban local bodies, project is highly sustainable

#### **7. Transferability:**

As the technology adopted is user friendly all urban local body can implement the same without any technical difficulty.

#### **8. Recognition;**

After the pilot project it is highly appreciated by the elected members and public and recognised by media and proposal is submitted for implementation of the project through out the city.