Smart Street Lighting Solutions

- GPRS, GPS With Cloud Connectivity
- Individual Light Dimming
- Multi Parameter Metering
- Cloud Based Software

Key benefits:

- **Saving up to 50% of Energy Bill**
  - Reduce power consumption due to improved control of each individual street light.
  - Reduce CO₂ emission & light pollution.
- **Quality of Lighting Provision on Street**
  - Right light at the right time
  - Increases safety and security
- **Centralised remote control, monitoring & Analysis**
- **Lighting Performance status**

- **Ease of maintenance & reduce maintenance cost**
  - Automatic Identification of failure - failure warnings
  - Real time control of individual lamp
  - Increase Lamp Life
  - Reduce the cost of maintenance on site
  - Remove Night Patrols
  - Automatic generation of alarms and notifications to optimise maintenance schedules
Lighting Solutions
Motwane, with vast experience in Electrical Test and Measurement equipment, now offers specialized lighting solutions with Automatic control of Street lights covering Astronomical Time based Switch ON/OFF as well as dimming and other rich featured control with Google Maps integration. We can also implement DALI solutions as well as special designs required for Ballasts.

CCMS units remotely configured for:
- Setting new ON/OFF timings
- RTC time of Automation unit
- Current status of any particular switching point
- Reset the unit
- Minimum interval for update of data
- 15 minute but programmable up to 1 minute
- Auto synchronization of controller with server timing with standard GPS clock timing.

Operational Features:
- Time based scheduling and ON / OFF control with day light intensity
- Almanac timer (Sunrise / sunset) based scheduling for summer / winter season
- GPRS technology for remote street light monitoring system
- Requisite digital Input/output to fetch data.

Energy management & Communication Features:
- Individual and/or networked switching points recording & offering at different time intervals for Voltages, Current, Power Factor, Active Power (kW), Apparent Power (kVA), metering (kWh cumulative), metering (kVAh cumulative)
- Recording of LED luminaries glowing & non-glowing hours
- Power supply unavailable hours
- Special emergency on/off facility with wireless control
- Bench marking capacity so as to generate alert SMS.

Web Based Application:
- Web-server to receive and record all data from the CCMS controller.
- Communication with any individual or networked switching points for control and monitoring
- Displays the power failure details of a particular switching point
- Registers all fault conditions like excess voltage/current drawn, lamps failure, no-power supply, etc through the instantaneous alert messages sent by the CCMS unit
- Reports such as energy saving report, lamp failure report, actual hours of operation, uptime (%), etc. are generated on a daily basis from the data/readings received from the CCMS units
- Tracking the failure of lamps in a particular switching point
- Different user authorization levels set table and capable of handling high traffic
- GIS Mapping covering all switching points and the details of each switch point viewable in the application software through a Google-map interface or web based digital map.

“This is a standard solution. Customization in solution will be at extra cost as mutually agreed.”

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