Estd:1985

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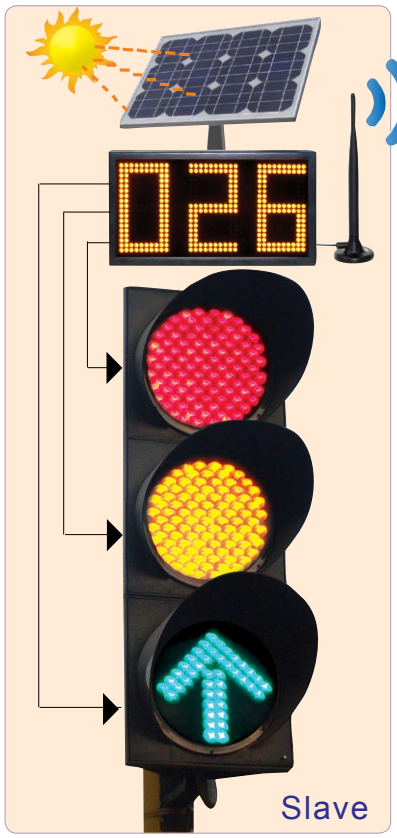
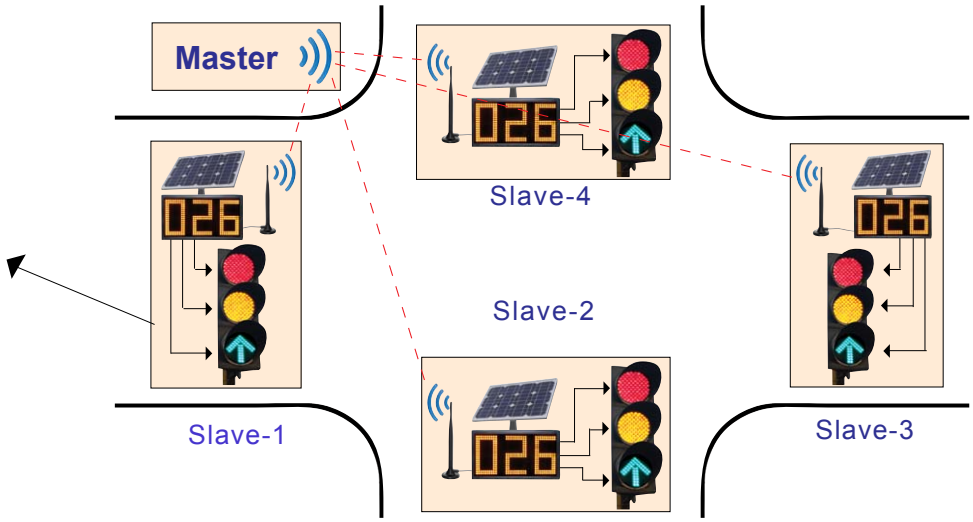
WIRELESS ROAD TRAFFIC SIGNAL SYSTEM



This new **"Wireless Road Traffic Signal System"** is built with latest Technologies to **Eliminate** and **Overcome** difficulties faced in the earlier versions like

- *Physical cabling between the Poles.*
- *Signal Failure during Power Supply failure.*
- *Central Monitoring and controlling of all Junctions*
- *Non-standard Time and Duration in a Sequence.*
- *More number of sequences to suite the traffic variations.*
- *Road Trenching.*
- *Synchronization between the junctions.*
- *Difficult to relocate in case of rearrangement.*
- *High Power Consumption.*



KEY ASSETS IN THE SYSTEM:

- ❖ Master Control Unit.
- ❖ Slave Unit with Count Down Timers.
- ❖ Red, Yellow & Green Arrow Lamps / 3 in 1 Lamp.
- ❖ Solar Panels & Battery Backup for Master and Slaves.

UNIQUE FEATURES:

1. Eliminates Physical Cabling between all the poles and Road Trenching in a junction

- ❖ Uses Zigbee Wireless Communication between all the poles to eliminate communication wiring
- ❖ Solar Power Supply at each pole eliminates power supply wiring from one source (State Electricity Board).
- ❖ No other cables / wires required to be laid across the junction. Hence eliminates the Road Trenching.

2. Easy to relocate in case of rearrangement.

- ❖ Each pole uses Solar Power and Wireless Communication for Lamp Controlling. It is easy to relocate or rearrange them in case of road widening etc

3. Works even during the Power Supply Failures.

- ❖ Battery Backup for required number of hours, makes the system to work independent of Power Supply Failures.

4. Maintains Standard Time and Duration in a Sequence.

- ❖ Time synchronization with GPS clock to maintain International & Standard Time & Time Duration in a Sequence.

5. Reduced Power Consumption

- ❖ High Bright LEDs in lamps and Count Down timer for more reliability, longer view and low power consumption.

6. Synchronization between the junctions.

- ❖ Possibility to maintain the Synchronized Sequences in a series of Junctions for a given speed between the junctions.
- ❖ This helps to maintain the synchronization between the junctions for Free Flow of Traffic.

7. Hourly and daywise sequences.

- ❖ Provision to program hourly in a day and daywise in a week to suite the Traffic Variations in a junction.
- ❖ Provision to program 20 Holiday Sequences.

8. Central Monitoring and controlling (optional)

- ❖ GPRS / GSM connectivity to monitor the signal status from Central place.
- ❖ Each junction reports all the failures to the central place. i.e.
  - Any Lamp permanent ON or OFF.
  - Power Supply Failures
  - Communication Failures etc
- ❖ Mimic showing the functioning of Junctions Offline to understand the synchronization and sequence operations.

9. 3 in 1 Lamp

- ❖ "Red, Yellow & Green Arrow" all arranged in single retrofit.
- ❖ Cost effective.

WIRELESS ROAD TRAFFIC SIGNAL

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Wireless Master Control Unit

Three in One Lamp

Slave with Count Down Timer

SPECIFICATIONS OF LAMPS & TIMER

Specifications are subjected to change from time to time

SPECIFICATIONS	RED LAMP	AMBER LAMP	GREEN ARROW LAMP	COUNT DOWN TIMER
LED Lens	Water clear	Water clear	Cyan with water clear	Amber / Red SMD water clear
Intensity	260cd	380cd	150cd	300cd
Number of LEDs	97	97	42	108 per digit
Retrofit make	Aluminium	Aluminium	Aluminium	MS
Operating Voltage range	18-36V DC supply	18-36V DC supply	18-36V DC supply	18-36V DC supply
Power consumption	<5W	<5W	<5W	<8W
Operating Temperature	-10°C to +70°C	-10°C to +70°C	-10°C to +70°C	-10°C to +70°C
Protection	IP54	IP54	IP54	IP54
Lamp diameter	12"	12"	12"	9" Digit

An ISO 9001 : 2008 Company

'R & D' Recognised by DSIR Govt. of INDIA

Approved by **RDSO** Govt. of INDIA Ministry of Railways

CRISIL RESEARCH **Rating - BB+**

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