



GLOBAL BEST PRACTICES

SUBMISSION DATE

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FIRST NAME

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MIDDLE INITIAL

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LAST NAME

NANDYAL

ORGANIZATION

SITARA Technologies Pvt. Ltd.

CATEGORY

Transportation Route

Introduction

This proposal is being made to de-risk and protect the chaotic traffic conditions around traffic signal lights.

Existing Status

None. The proposed improvement is NOT found in practice. It can be piloted on an experimental basis and if results are found to be beneficial, large-scale implementation of the recommendations may be attempted.

Proposed Improvement

The purpose of a traffic signal is to "regulate" and "control" traffic in an orderly and a disciplined manner. But, when discipline cannot be enforced or is difficult to administer, a "self-regulating" mechanism is the only practical solution. The implementation strategy explores such a "self-regulating" mechanism at very minimal cost.



Brief Implementation Strategy

The perceived problem is that – when the signal transitions from Green to Yellow and Yellow to Red, instead of coming to a gradual halt, speedsters and vehicle users are found to accelerate just to get by with the traffic signal transition. As a consequence one often finds “jamming” of the intersection by those having the right of way and those who force the right of way upon them selves.

The simple, cost-effective solution to this problem is to construct “rippled speed breakers” at about 200-250 feet ahead of the signal light. Since most of the traffic beyond the 200-250 feet distance is free of obstruction, it facilitates easy passage to those who are “ahead” of the speed breakers. But, those who need to get to the signal light passing over the speed breakers will however see an arresting of their speed limited by the speed breakers. The natural effect is to slow them down and enforce the necessary control and restraint on the speed to within the signal light transition.

Support Requirements

- Automated signal lights must be in working condition.
- Police to regulate and monitor the effectiveness of the pilots.
- Road repair personnel to ensure that the ripple speed breakers are of good quality to sustain large traffic movement.

Case Studies

- None

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