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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041050702 A

(19) INDIA

(22) Date of filing of Application :21/11/2020

(43) Publication Date : 04/12/2020

(54) Title of the invention : AUTONOMOUS DYNAMIC TRAFFIC SIGNAL POSTS

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| (32) Priority Date | :NA | Main Campus, Maisammaguda, Dhulapally, Kompally, |
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| Filing Date | :NA | |
| (62) Divisional to Application Number | :NA | |
| Filing Date | :NA | |

(57) Abstract :

Roadway is the most used mode of transportation of goods, people and machinery. In most of the busy roads in major cities, the traffic congestion, especially near the traffic signals, is severe. The non-dynamic nature of green signal duration leads to increase in congestion, which ultimately results in increased waiting time for the vehicles. Adaptive timing of green signal based on the traffic density can be a potential solution. The proposed Autonomous Dynamic Traffic Signal Post (ADTSP) will determine the traffic density in an intersection in real-time. It will calculate the optimized green signal duration for a direction and thus will regulate the traffic in all the roads that are connected. The installation and implementation of ADTSP will obviously lead to reduction in pollution level and fuel consumption. Thus this technique can be treated as a techno-economical and eco-friendly feasible solution to the grave problem of traffic congestion.

No. of Pages : 4 No. of Claims : 5