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(71)Name of Applicant :
1)Buddha institute of Technology
Address of Applicant :CL1, Sector 7, GIDA, Gorakhpur, Uttar Pradesh, India, 273209 Gorakhpur -----
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)SHWEKSHA TRIPATHI
Address of Applicant :CL1, Sector 7, GIDA, Gorakhpur, Uttar Pradesh, India, 273209 Gorakhpur -----
2)AMAN KUMAR CHAUBEY
Address of Applicant :CL1, Sector 7, GIDA, Gorakhpur, Uttar Pradesh, India, 273209 Gorakhpur -----
3)MANAK GUPTA
Address of Applicant :CL1, Sector 7, GIDA, Gorakhpur, Uttar Pradesh, India, 273209 Gorakhpur -----
4)ASHUTOSH SINGH
Address of Applicant :CL1, Sector 7, GIDA, Gorakhpur, Uttar Pradesh, India, 273209 Gorakhpur -----
5)MR. ANKUR KUMAR
Address of Applicant :CL1, Sector 7, GIDA, Gorakhpur, Uttar Pradesh, India, 273209 Gorakhpur -----

(57) Abstract :

Accordingly, embodiments herein disclose automated time saver traffic signal control system for controlling traffic signals, comprising of: a plurality of passenger car units (PCU) which is configured to provide the precision and accuracy in calculating traffic times. The signal is designed using the Indian road congress (IRC) process such that the IRC process is performed to: calculate pedestrian green time required for the major and minor roads based on walking speed of 1.2m/s and initial walking time of 7 seconds; increase the pedestrian green time required for vehicular traffic on the major road in proportion to the traffic on the two approach roads; calculate the cycle time after permitting amber time of 2 seconds each; determine the minimum green time required for clearing the arriving vehicles during one cycle for each lane of approach road; and calculate the optimum signal cycle time using Webster formula.

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