

DESIGN OF COST EFFICIENT SMART TOLL GATE BILLING FOR INTELLIGENT TRANSPORT SYSTEMS

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In India, the existing toll assortment system uses manual money transactions. Exponential growth in traffic is discovered in past years. These electronic booths mechanically collect toll from user account corresponding to the RFID tag glued on the windscreen of the automobile. The toll is subtracted is the amount from the user account on every occasion it passes through a parcel of land. Associate degree RFID reader with high power and high directional property is placed overhead for detection the passive tags glued on the windscreen. On the spot displays details regarding the toll subtracted and remaining account balance. After the prospering dealings, the barricade is opened. Recharge facility for accounts having depleted balance is provided on toll booths. This technique addresses all problems like time wastage, fuel consumption and assortment errors etc. An electronic system will bring transparency in toll tax collection and stop corruption and non-payment problems. Automatic Toll Tax systems have extremely helped a great deal in reducing the serious congestion caused in the metropolitan cities of nowadays. It's one amongst the simplest strategies accustomed organize the serious flow of traffic. Once the automobile moves through the toll gate on any road, it's indicated on the RFID reader that it's crossed the clearing. The requirement for manual toll primarily based systems is totally reduced during his strategies and therefore the tolling system works through RFID. The system so put in is kind of expedient reducing the time and value of travellers since the tag may be deciphered from a distance.