

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**  
"JNANA SANGAMA", MACHHE, BELAGAVI - 590018, KARNATAKA



2021-2022

**Project Report**

on

**"DESIGN OF ROTARY INTERSECTION"**

Submitted in partial fulfillment of the requirement for the award of degree

BACHELOR OF ENGINEERING  
IN  
CIVIL ENGINEERING

Submitted by:

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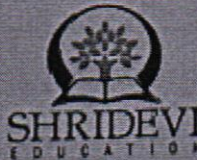
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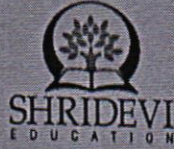


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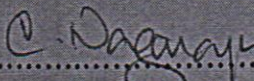
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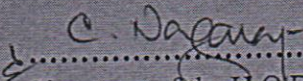


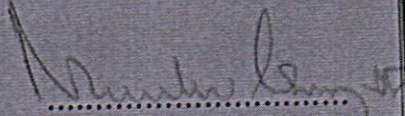
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CERTIFICATE

Certified that a project report on entitled "DESIGN OF ROTARY INTERSECTION" has been successfully carried out by GAYATHRI K B (ISV18CV404), SANDHYARANI B R (ISV18CV413), SIMRAN KARANI (ISV18CV415), students of Shridevi Institute of Engineering and Technology, Tumakuru -572106, in partial fulfillment of project for the award of Bachelor of Engineering in Civil Engineering of the Visvesvaraya Technological University, Jnana Sangama, Belagavi -590018 during the academic year 2021-2022. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the Department library. The report has been approved as it satisfies the academic requirement in respect of project on current topic prescribed for B.E Degree.

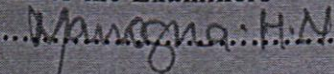
  
Signature of the Project Guide  
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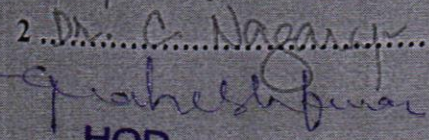
  
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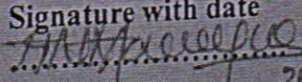
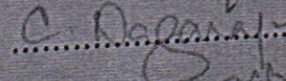
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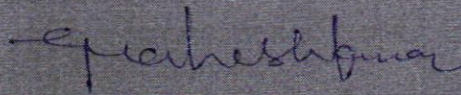
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## ABSTRACT

Traffic Rotary at road intersections is special form of grade change of lanes to channelize movement of vehicles in one direction around a central traffic island. With rapid growth of traffic it is experienced that widening of roads and providing flyovers have become imperative to overcome major conflicts at intersections such as collision between through and right- turn movements.

In this way, major conflicts are converted into milder conflicts like merging and diverging. The vehicles entering the rotary are gently forced to move in a clockwise direction. They then weave out of the rotary to the desired direction. The crossing of vehicles is avoided by allowing all vehicles to merge into a stream around the rotary and then to diverge out to the desired radiating road.

Thus the crossing conflicts eliminate and convert into weaving manoeuvre or a merging operation from right and a diverging operation to the left. In this paper, designing rotaries at road intersections is discussed and a software package is developed to be used in road works.



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