

**DEPARTMENT OF MECHANICAL ENGINEERING  
KONGU ENGINEERING COLLEGE**

**(Autonomous)**

**PERUNDURAI ERODE – 638 060**

**APRIL 2021**

**BONAFIDE CERTIFICATE**

This is to certify that the project Report entitled “**FLEXURAL AND CRASHWORTHINESS STUDIES ON FRICTION STIR WELDED ALUMINIUM ALLOY PIPES**” the bonafide record of project work done by

**ELANGO.P**

**17MER040**

**ELAYABHARATHI.M**

**17MER041**

**HARIPRASANTH.R**

**17MER059**

In partial fulfill of requirements for the award of Degree of Bachelor of Engineering in Mechanical Engineering of Anna University Chennai during the year 2020-2021.

  
**SUPERVISOR**

**Date:** 20.04.2021

  
**HEAD OF THE DEPARTMENT**

**(Signature with Seal)  
Professor & Head  
Dept of Mechanical Engg  
Kongu Engineering College  
Thoppupalayam (Po)  
Perundurai, Erode - 638 060**

Submitted for the end semester viva voce examination held on 20.04.2021

  
**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**