

**DESIGN AND FABRICATION OF IOT VALVE
FOR PROCESSING PLANTS AND CROP FIELDS**
A Project Report

Submitted by

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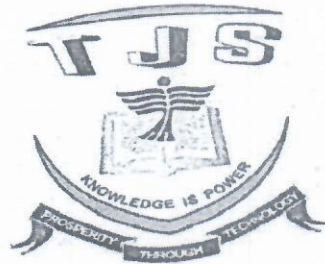
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In partial fulfillment for the award of the degree
of

**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

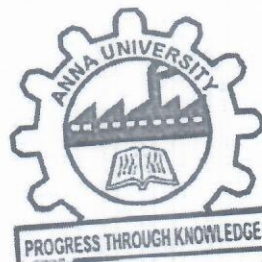


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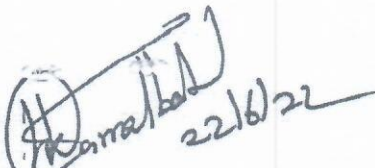
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JUNE 2022

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BONAFIDE CERTIFICATE

Certified that the project report " DESIGN AND FABRICATION OF IOT VALVE FOR PROCESSING PLANTS AND CROP FIELDS " is the bonafide work of " P.DINESH (112818114010), K.HAYATH BASHA (112818114013), S. JANARTHAN (112818114014), G.KUMARA GURU (112818114023) " who Carried out the project work under my supervision.


SIGNATURE

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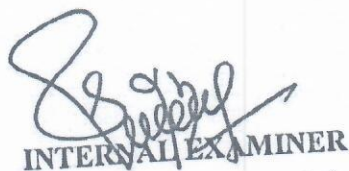
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Submitted for project viva voice held on 22/6/22


INTERNAL EXAMINER


EXTERNAL EXAMINER




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ABSTRACT

Here we are introducing the IOT Valve. Biggest benefits of IOT will be improved operational efficiency of control valves. In a typical processing plant, media or fluids flow through processing equipment. Control valves perform the critical function of regulating process variables such as pressure, temperature, and flow rate.

Our project consists of Brass valve, ESP 32S, 4 channel Relay Module Lm2596 DC-DC Buck Converter, Power Supply, Customized Shaft, Limit Switches, Connecting Wires and Wiper Motor. The model is fixed in the base frame. The Brass Valve is fixed with the Shaft. Wiper Motor is connected to the Shaft, Thus the motor and valve are connected.

When the power supply is given, the Motor starts to rotate, the Shaft connected to the motor rotates and simultaneously the Valve gets rotated by the main shaft. Thus the valve is operated.



A handwritten signature in green ink, appearing to read "J. S. S.", located above the principal's name and address.

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