

DESIGN AND FABRICATION OF HYDRAULIC TRACTION
BEAM

A PROJECT REPORT

Submitted by

S.AKASH (112818114003)

S.BALAMURUGAN (112818114006)

~~S.SUBASH~~ (112818114304)

S.RAHUL (112818114702)

in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

in

MECHANICAL ENGINEERING



T.J.S ENGINEERING COLLEGE



PRINCIPAL

T.J.S. ENGINEERING COLLEGE

Peruvoyal, Kavaraipeetai,
Gummidipoondi Taluk,
Thiruvallur Dist - 601 206.

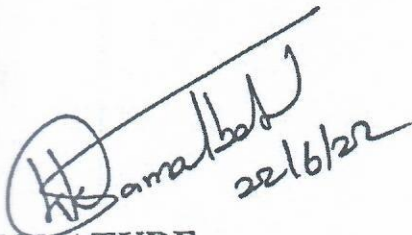
ANNA UNIVERSITY: CHENNAI 600 025

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BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND FABRICATION OF HYDRAULIC TRACTION BEAM" is the bonafide work of "S.AKASH(112818114003,S.BALAMURUGAN(112818114006), S.SUBASH(1128114304) ,S RAHUL(11281811702)", who carried out the project work under my supervision


22/6/22


22/6/22

SIGNATURE

SIGNATURE

D.K.KAMAL BABU , Ph.D.(NIT-T)

Mr. M.PRAKASH. M.E.,

HEAD OF THE DEPARTMENT

SUPERVISOR

ASSOCIATE PROFESSOR

ASSISTANT PROFESSOR

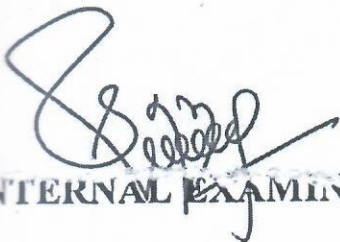
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Submitted for project viva - voce examination held on 22/6/22




EXTERNAL EXAMINER

22/6/22





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ABSTRACT

Here we are introducing the hydraulic traction beam which supports the bogged tire where the traction produced by the tire is not adequate to move the vehicle by itself but needed an additional traction support to move. It is designed ~~for the purpose of providing additional traction support to the bogged tire~~ controller. This device is a semiautomatic electric controlled system, since it uses the mechanical transmission power the vehicle to operate where the engine power is transmitted to the traction beam to eject out from the casing attached in the axel casing.

The ejection is done with the assist of ball screw for linear ejection and recovery. After the ejection of the beam from the casing the second stage process is taken over which is ejection of actual traction beam from the hydraulics. Here the traction beam is ejected from the hydraulic housing by hydraulic pressure the assist pushes



A handwritten signature in green ink, appearing to read "J. S. S.", written over the printed name of the Principal.

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Gummidipoondi Taluk,
Thiruvallur Dist - 601 206.