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## ANDHRA UNIVERSITY



Serial No. 2002

### PROVISIONAL CERTIFICATE

This is to Certify that Sri / Smt. / Kum. PENTA SHREENIVASA RAO.....  
has qualified himself/herself for the Award of Doctor of Philosophy Degree by  
Research for the Thesis submitted by him / her entitled "PREDICTIVE  
MODELLING OF THE EFFECT OF H<sub>3</sub>BO<sub>3</sub> (nm) AND TiO<sub>2</sub>  
(nm) MIXTURE ON MINIMUM QUANTITY LUBRICATION  
MACHINING OF THE EN24 STEEL".....

and that he / she has done all that is necessary for the formal presentation for the Degree of  
Doctor of Philosophy in MARINE ENGINEERING.....  
in the year 2019...

VISAKHAPATNAM

Dt. 03/01/..... 2020

Initials of the } Prepared : MT

Clerk who } Examined : [Signature]

M. Hemadri  
DEPUTY REGISTRAR (ACADEMIC)

P. C. V. S. R.  
13/07/2020