



Management System  
ISO 9001:2015



www.tuv.rv.net  
ID 0106653506

Republic of the Philippines  
**CAMARINES NORTE STATE COLLEGE**  
F. Pimentel Avenue, Brgy. 2, Daet, Camarines Norte – 4600, Philippines

## OFFICE OF THE BAC CHAIRPERSON

November 14, 2023


### ADDENDUM NO. 1 Series of 2023

This Addendum No. 1 for the project, **SUPPLY AND DELIVERY OF EQUIPMENT FOR BSCE PROGRAM OF THE COLLEGE OF ENGINEERING, DAET, CAMARINES NORTE.**

It is being issued in accordance with the Revised IRR of R.A. 9184 specifically Section 22.5.2. and 22.5.3.

Please be informed of the change of schedule of the Opening of Bids from November 27, 2023 to November 28, 2023 at 10:00 o'clock in the morning. Deadline for the submission of bids will be on November 28, 2023 at 9:30 in the morning.

This Addendum shall form integral part of the Bid Documents.

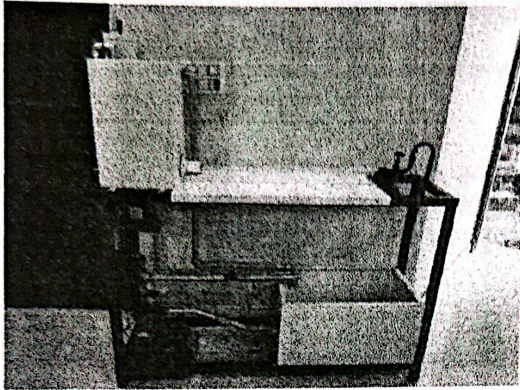
  
MARIA CRISTINA C. AZUELO, Ph.D.  
BAC CHAIRPERSON

Bidders:

Name and Signature \_\_\_\_\_

## 1. Reynold's Apparatus

The apparatus will be used to determine, through an experiment, the Reynold's number and hence the type of flow either laminar or turbulent. The apparatus consists of a glass tube with one end having bell mouth entrance; connected to a constant headwater tank, at the other end a valve is provided to vary the flow rate. The tank is of sufficient capacity to store water; A capillary tube is introduced centrally in the bell mouth for feeding dye from a small container placed at the top of tank, through polythene tubing. Required set-up is a self-contained water re-circulating unit, provided with a sump tank and a centrifugal pump etc. Flow control valve and by-pass valve are fitted in water line. Flow rate of water is measured with the help of a measuring cylinder and stopwatch, both are included in the delivery of the apparatus. The instructional manual shall consist of experimental procedure, block diagram, etc.

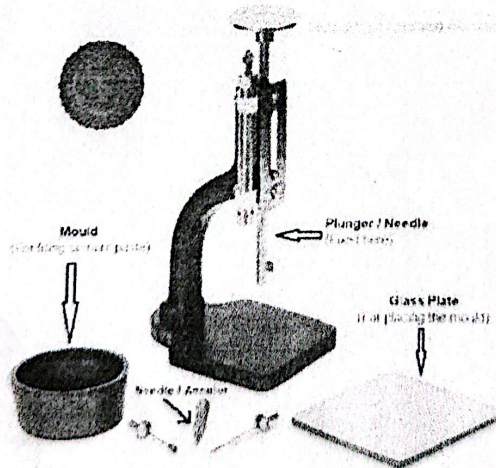


Picture details are for reference only

## 2. Vicat Apparatus

The instrument consists of a metal frame, graduated scale with index, 300 g sliding probe,  $\text{Ø}$  10 mm consistency piston, and glass base plate. Needle and mold must be according to the Standard of EN 13279-2 (GYPSUM), EN 480-2, ASTM C191, and AASHTO T131, with the following specifications:

- Needle, hardened  $\text{Ø}$  1.13 mm EN 196-3: 2005
- Needle, hardened  $\text{Ø}$  1 mm ASTM – AASHTO
- Conical plastic mold  $\text{Ø}$  70/80 h 40 mm (EN – NF)
- Conical plastic mold  $\text{Ø}$  60/70 h 40 mm (ASTM – AASHTO)



Picture details are for reference only