

### Republic of the Philippines EASTERN VISAYAS STATE UNIVERSITY Tacloban City



### **BIDS AND AWARDS COMMITTEE**

### SUPPLEMENTAL/BID BULLETIN NO. 1

September 24, 2025 Date:

IB-2025-09-18 SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, AND TESTING OF LABORATORY EQUIPMENT Title:

12422193 **Reference No.:** 

This bulletin is being issued to revise/clarify certain portions of the bidding documents. This shall form an integral part of the bidding document for the above-mentioned procurement project.

REFERENCE						AMMEN	DMEN	ITS		
Section II. Instructions to Bidders					Section II. Instructions to Bidders					
19. Deta	ailed Evaluation ar	nd Coi	mpariso	on of Bids	19. De	tailed Evaluation ar	nd Co	mpariso	on of Bids	
19.4. The Project shall be awarded as one (1) Project having several items, which shall be awarded as separate contracts per item. In case more than one (1) item is awarded to the same bidder, one (1) contract may be entered into containing all the items awarded.					19.4. The Project shall be awarded as one (1) lot Project with several items, that shall be awarded as one (1) contract.					
Section	III. Bid Data Sheet				Section	III. Bid Data Sheet	t			
ITB Clau	ıse 9				ITB Cla	use 9				
Prospective bidders may submit their written request for clarification on and/or interpretation of any part of the Bidding Documents, either to EVSU BAC Secretariat Office or through electronic mail at evsu.bacsecretariat@evsu.edu.ph not later than October 09, 2025, 5:00PM. Clarifications made and submitted beyond the abovementioned date shall not be accepted and/or entertained further.			Prospective bidders may submit their written request for clarification on and/or interpretation of any part of the Bidding Documents, either to EVSU BAC Secretariat Office or through electronic mail at evsu.bacsecretariat@evsu.edu.ph not later than October 06, 2025, 5:00PM. Clarifications made and submitted beyond the abovementioned date shall not be accepted and/or entertained further.							
Section	III. Bid Data Sheet				Section III. Bid Data Sheet					
ITB Clause 19.2				ITB Clause 19.2						
Partial bid is allowed. All Goods are grouped in items listed below.			Partial bid is <b>NOT</b> allowed. All Goods are grouped in one (1) lot as listed below.							
ITEM NO.	PARTICULARS	QTY	UNIT	TOTAL AMOUNT	ITEM PARTICULARS QTY UNIT TOTAL AMOUNT					
1 2	07-0655-25 COE 07-0655-25 COE	1	Unit Unit	1,250,000.00 550,000.00	1	07-0655-25 COE	1	Lot	1,800,000.00	
Section VI. Schedule of Requirements				Please see Annex "A" for the amended Schedule of Requirements.						
Section VII. Technical Specifications			Please see Annex "B" for the amended Technical Specifications.							





# Republic of the Philippines EASTERN VISAYAS STATE UNIVERSITY Tacloban City



#### **BIDS AND AWARDS COMMITTEE**

All statements and formats referring to this clause should be amended/corrected accordingly.

For guidance and information of all concerned.

For further information, please refer to:

(SGD) VINCENT B. CABANTOC

Head, BAC Secretariat CP No. 0953-355-7046 - TM

Email Add: evsu.bacsecretariat@evsu.edu.ph

Noted:

(SGD) LYDIA M. MORANTE, DA

Vice President for Administration, Finance, & Auxiliary Services Chairperson, Bids and Awards Committee



## **Schedule of Requirements**

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date, which is the date of delivery to the project site.

	IB-2025-09-18 SUPPLY, DELIVERY, INSTALLATION, COMMISSI LABORATORY EQUIPMENT	ONING,	AND TE	STING OF
Lot No.	Description	QTY	UNIT	Delivered, Weeks/Months
1	PR No. 07-0655-25 COE	1	LOT	
	TRAY DRYER WITH DAQ (DATA ACQUISITION) SOFTWARE			
	Technical Data Specification:			
	Drying channel			
	<ul> <li>Length: 2000mm approx.</li> <li>Internal dimensions: 350×350mm</li> <li>4 drying trays: 300×300mm each</li> </ul>			
	Fan			
	• Power: 33W			
	<ul> <li>Max. output: 700 m³/h</li> <li>Max. speed: 950 min<sup>-1</sup></li> </ul>			
	Heater			
	Power: 0–3500W with adjustable temperature limiter  Release	4	l lm:t	
	Balance     Measuring range: 0–10000g	1	Unit	
	Resolution: 0.1g			
	Application temperature: 0–75°C			
	Measuring ranges  • Humidity: 0–100% rel.			
	Temperature: -100–400°C  Temperature: -100–400°C			
	Air velocity: 0–2.5 m/s			
	<ul> <li>Continuation Specification:</li> <li>Drier for investigating convection drying of solids.</li> <li>Drying on 4 corrosion-resistant trays in a drying channel with an air flow.</li> </ul>			
	<ul><li>Adjustment of air velocity via the speed of the fan.</li><li>Air heating with a controlled heater.</li></ul>			
	<ul> <li>Digital balance for measuring the change of weight during drying.</li> </ul>			
	<ul> <li>1 combined sensor for measurement of</li> <li>humidity and temperature before and after the solid sample.</li> </ul>			
	1 air velocity sensor.			
	Digital stopwatch, battery-operated.  Software for data population via LICE under Windows 7 and			
	<ul> <li>Software for data acquisition via USB under Windows 7 or latest. (Preferred if with a complete desktop computer)</li> </ul>			
	Must be applicable to the following experiment:			
	<ul> <li>Influence of air temperature and humidity on drying</li> </ul>			
	<ul><li>intensity.</li><li>Plotting of drying curves with constant external conditions.</li></ul>			
<u> </u>	- I lotting of drying our voo with constant external conditions.		<u> </u>	l

Determination of drying rate with different air parameters			
and different solid properties			
<ul> <li>Evaluation of drying processes using energy and mass balances.</li> </ul>			
GASEOUS DIFFUSION APPARATUS WITH DAQ (DATA			
ACQUISITION) SOFTWARE			
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N. A. S.			
Tachnical Data Specification			
Technical Data Specification:  • Water bath: approx. 2L approx.			
Water battl. approx. 2L approx.     Diffusion tube for solvent			
diameter: 4mm			
length: 100mm			
Heater			
Power: 300W approx.			
• Fan: 120–320L/h			
Microscope  Microscope apple divisions 0.1mm			
Microscope scale division: 0.1mm  • Stirrer			
Type: Blade			
Drive: Motorized			
Speed: 500rpm	1	Unit	
Measuring ranges			
• Temperature: 100–400°C			
Specification:			
<ul><li>Investigation of the diffusion of gases</li><li>Evaporation of a highly volatile solvent with a diffusion</li></ul>			
tube in a heated water bath for investigating diffusion in			
gases			
<ul> <li>Removal of gaseous solvent at the upper end of the</li> </ul>			
diffusion tube with a fan			
Heater with controller and sensor for adjusting the			
<ul><li>temperature in the water bath</li><li>Height-adjustable microscope for monitoring and</li></ul>			
Height-adjustable microscope for monitoring and determining the solvent volume in the diffusion tube			
Digital display and control unit contains a temperature			
controller and fan			
Must be applicable to the following experiment:			
Fundamentals of diffusion: Fick's law			
Derivation of the calculation formula for the diffusion  and finishts for the given experimental conditions.			
coefficients for the given experimental conditions  • Determination of the diffusion coefficient for the mass			
transport in gas			
transport in gas			
Note: The above equipment should have an instructional/			
operational manual and an experiment manual for different			
experiments. Fittings and other relevant materials/accessories			
upon installation and turnover training should be included and			
shouldered by the supplier. Installation and turnover training			
should be conducted by the supplier's technical team.  Certification of calibration should be included.			
Certification of calibration should be included.		İ	<u> </u>

## **Technical Specifications**

Lot No.  Description  Description  Technical Data Specification: Drying channel Length: 2000mm approx. Length: 2000mm approx. Length: 2000mm approx. Length: 2000mm approx. Length: 3000x300mm each Fan Power: 33W Max. output: 700 m³/h Max. output: 700 m³/h Max. speed: 950 min⁻¹ Heater Power: 0–3500W with adjustable temperature limiter Balance Measuring range: 0–10000g Resolution: 0.1g Application temperature: 0–75°C Measuring range: Humidity: 0–100% ral. Temperature: 100–400°C Air valicity: 0–2.5 m/s Continuation Specification: Direl for investigating convection drying of solids. Drying on 4 corresion-resistant trays in a drying channel with an air flow. Adjustment of air velocity via the speed of the fan. Air heating with a controlled heater. Digital balance for measuring the change of weight during drying. 1 combined sensor for measurement of humidity and temperature before and after the solid sample. 1 air velocity sensor. Digital stopwatch, battery-operated. Soltware for data acquisition via USB under Windows 7 or latests. (Frefered if with a complete desktop computer) Must be applicable to the following experiment: Influence of air temperature and humidity on drying intensity. Plotting of drying curves with constant external conditions.	IB-2025-09-18 SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, AND TESTING OF LABORATORY EQUIPMENT					
Technical Data Specification: Drying channel  • Length: 2000mm approx. • Internal dimensions: 350x350mm • 4 drying trays: 300x300mm each Fan  • Power: 33W • Max. output: 700 m³/h • Max. speed: 950 min¹  Heater • Power: 0–3500W with adjustable temperature limiter Balance • Measuring range: 0–10000g • Resolution: 0.1g • Application temperature: 0–75°C Measuring range: 0 • Humidity: 0–100% rel. • Temperature: 100–400°C • Air velocity: 0–2.5 m/s Continuation Specification: • Drier for investigating convection drying of solids. • Drying on 4 corrosion-resistant trays in a drying channel with an air flow. • Adjustment of air velocity via the speed of the fan. • Air heating with a controlled heater. • Digital balance for measuring the change of weight during drying. • 1 combined sensor for measurement of • humidity and temperature before and after the solid sample. • 1 air velocity sensor. • Digital stopwatch, battery-operated. • Software for data acquisition via USB under Windows 7 or latest. (Preferred if with a compilee desktop computer) Must be applicable to the following experiment: • Influence of air temperature and humidity on drying intensity.			QTY	UNIT	COMPLIANCE COMPLY/ NOT	
Technical Data Specification:  Drying channel  Length: 2000mm approx. Internal dimensions: 350x350mm  4 drying trays: 300x300mm each Fan  Power: 33W  Max. output: 700 m³/h  Max. output: 700 m³/h  Max. output: 700 m³/h  Max. output: 700 m³/h  Measuring range: 0–10000g  Resolution: 0.1g  Application temperature: 0–75°C  Measuring ranges  Hurnidity: 0–100% rel.  Temperature: 400–400°C  Air velocity: 0–2.5 m/s  Continuation Specification:  Driger for investigating convection drying of solids.  Drying on 4 corrosion-resistant trays in a drying channel with an air flow.  Air heating with a controlled heater.  Digital balance for measurement of humidity and temperature before and after the solid sample.  1 air velocity sensor.  Digital stopwatch, battery-operated.  Software for data acquisition via USB under Windows 7 or latest. (Preferred if with a complete desktop computer)  Must be applicable to the following experiment:  Influence of air temperature and humidity on drying intensity.	1	PR No. 07-0655-25 COE	1	LOT		
		Technical Data Specification: Drying channel  Length: 2000mm approx. Internal dimensions: 350×350mm 4 drying trays: 300×300mm each Fan  Power: 33W Max. output: 700 m³/h Max. speed: 950 min⁻¹ Heater Power: 0–3500W with adjustable temperature limiter Balance Measuring range: 0–10000g Resolution: 0.1g Application temperature: 0–75°C Measuring ranges Humidity: 0–100% rel. Temperature: -100-400°C Air velocity: 0–2.5 m/s Continuation Specification: Drier for investigating convection drying of solids. Drying on 4 corrosion-resistant trays in a drying channel with an air flow. Adjustment of air velocity via the speed of the fan. Air heating with a controlled heater. Digital balance for measuring the change of weight during drying. 1 combined sensor for measurement of humidity and temperature before and after the solid sample. 1 air velocity sensor. Digital stopwatch, battery-operated. Software for data acquisition via USB under Windows 7 or latest. (Preferred if with a complete desktop computer) Must be applicable to the following experiment: Influence of air temperature and humidity on drying intensity.	1	Unit		

Determination of drying rate with different air parameters and different solid properties  Evaluation of drying processes using energy and mass balances.  GASEOUS DIFFUSION APPARATUS WITH DAQ (DATA ACQUISITION) SOFTWARE  Technical Data Specification:  Water bath: approx. 2L approx.  Diffusion tube for solvent diameter: 4mm length: 100mm length: 100mm Heater Power: 300W approx.  Fan: 120-320L/h Microscope Microscope scale division: 0.1mm Stirrer Type: Blade Drive: Motorized Speed: 500pmm Measuring ranges  Temperature: 100-400°C Specification:  Investigation of the diffusion of gases Evaporation of a highly volatile solvent with a diffusion in gases Removal of gaseous solvent at the upper end of the diffusion tube with a fan Heater with controller and sensor for adjusting the temperature in the water bath Height-adjustable microscope for monitoring and determining the solvent volume in the diffusion tube determining the solvent volume in the diffusion tube of Digital display and control unit contains a temperature controller and fan  Must be applicable to the following experiment: Fundamentals of diffusion: Fick's law Derivation of the calculation formulal for the diffusion coefficients for the given experimental conditions Determination of the diffusion coefficient for the mass transport in gas  Note: The above equipment should have an instructional/operational manual and an experiment materials/accessories				
Pechnical Data Specification:  Water bath: approx. 2L approx.  Diffusion tube for solvent diameter: 4mm length: 100mm  Heater  Power: 300W approx.  Fan: 120-320L/h  Microscope Microscope scale division: 0.1mm  Stirrer  Type: Blade Drive: Motorized Speed: 500tpm  Measuring ranges  Temperature: 100-400°C Specification:  Investigation of the diffusion of gases  Evaporation of a highly volatile solvent with a diffusion tube in a heated water bath for investigating diffusion in gases  Removal of gaseous solvent at the upper end of the diffusion tube with a fan  Heater with controller and sensor for adjusting the temperature in the water bath Height-adjustable microscope for monitoring and determining the solvent volume in the diffusion tube be Digital display and control unit contains a temperature controller and fan  Must be applicable to the following experiment:  Fundamentals of diffusion: Fick's law  Derivation of the calculation formula for the diffusion coefficients for the given experiment:  Fundamentals of diffusion: Fick's law  Derivation of the calculation formula for the diffusion coefficients for the given experiment:  Pundamentals of diffusion coefficient for the mass transport in gas  Note: The above equipment should have an instructional/operational manual and an experiment manual for different experiments. Fittings and other relevant materials/saccessories	<ul> <li>Determination of drying rate with different air parameters</li> </ul>			
Perhical Data Specification:  GASEOUS DIFFUSION APPARATUS WITH DAQ (DATA ACQUISITION) SOFTWARE  Water bath: approx. 2L approx.  Diffusion tube for solvent diameter: 4mm length: 100mm  Heater Power: 300W approx.  Fan: 120-320L/h  Microscope Microscope scale division: 0.1mm  Stirrer Type: Blade Drive: Motorized Speed: 500rpm  Measuring ranges  Temperature: 100-400°C Specification:  Investigation of the diffusion of gases Evaporation of a highly volatile solvent with a diffusion tube in a heated water bath for investigating diffusion in gases Removal of gaseous solvent at the upper end of the diffusion tube with a tan Heater with controller and sensor for adjusting the temperature in the water bath Height-adjustable microscope for monitoring and determining the solvent volume in the diffusion tube Digital display and control unit contains a temperature controller and fan  Must be applicable to the following experiment: Fundamentals of diffusion: Fick's law Derivation of the calculation formula for the diffusion coefficients for the given experiments.  Purdamentals of diffusion: coefficient for the mass transport in gas Note: The above equipment should have an instructional/operational manual and an experiment manual for different experiments. Fittings and other relevant materials/secessories				
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GASEOUS DIFFUSION APPARATUS WITH DAQ (DATA ACQUISITION) SOFTWARE  Technical Data Specification:  • Water bath: approx. 2L approx.  • Diffusion tube for solvent diameter: 4mm length: 100mm  • Heater Power: 300W approx.  • Fan: 120–320L/h  • Microscope Microscope Microscope scale division: 0.1mm  • Stirrer Type: Blade Drive: Motorized Speed: 500rpm  Measuring ranges  • Temperature: 100–400°C Specification:  • Investigation of the diffusion of gases  • Temperature: 100–400°C Specification:  • Investigation of the diffusion of gases  • Evaporation of a highly volatile solvent with a diffusion tube in a heated water bath for investigating diffusion in gases  • Removal of gaseous solvent at the upper end of the diffusion tube in a heated water bath for investigating diffusion in gases  • Removal of gaseous solvent at the upper end of the diffusion tube with a fan  • Heater with controller and sensor for adjusting the temperature in the water bath  • Height-adjustable microscope for monitoring and determining the solvent volume in the diffusion tube  • Digital display and control unit contains a temperature controller and fan  Must be applicable to the following experiment:  • Fundamentals of diffusion: Fick's law  • Derivation of the calculation formula for the diffusion coefficients for the given experimental conditions  • Determination of the diffusion coefficient for the mass transport in gas  Note: The above equipment should have an instructional/ operational manual and an experiment manual for different experiments.	,			
Technical Data Specification:  • Water bath: approx. 2L. approx. • Diffusion tube for solvent diameter. 4mm length: 100mm • Heater Power: 300W approx. • Fan: 120–320Lh • Microscope Microscope Microscope scale division: 0.1mm • Stirrer • Type: Blade Drive: Motorized Speed: 500rpm  Massuring ranges • Temperature: 100–400°C Specification: • Investigation of the diffusion of gases • Evaporation of a highly volatile solvent with a diffusion tube in a heated water bath for investigating diffusion in gases • Removal of gaseous solvent at the upper end of the diffusion tube with a fan • Heater with controller and sensor for adjusting the temperature in the water bath • Height-adjustable microscope for monitoring and determining the solvent volume in the diffusion tube • Digital display and control unit contains a temperature controller and fan  Must be applicable to the following experiment: • Fundamentals of diffusion: Fick's law • Derivation of the calculation formula for the diffusion coefficients for the given experimental conditions • Determination of the diffusion coefficient for the mass transport in gas  Note: The above equipment should have an instructional/operational manual and an experiment manual for different experiments.	GASEOUS DIFFUSION APPARATUS WITH DAQ (DATA			
Technical Data Specification:  Water bath: approx. 2L approx.  Diffusion tube for solvent diameter: 4mm length: 100mm  Heater Power: 300W approx.  Fan: 120-320L/h  Microscope Microscope scale division: 0.1mm  Stirrer  Type: Blade Drive: Motorized Specet: 500rpm  Measuring ranges  Temperature: 100-400°C Specification:  Investigation of the diffusion of gases  Evaporation of a highly volatile solvent with a diffusion tube in a heated water bath for investigating diffusion in gases  Removal of gaseous solvent at the upper end of the diffusion tube in a heated water bath for investigating the temperature in the water bath Height-adjustable microscope for monitoring and determining the solvent volume in the diffusion tube Digital display and control unit contains a temperature controller and fan Must be applicable to the following experiment: Fundamentals of diffusion: Fick's law Derivation of the calculation formula for the diffusion coefficients for the given experimental conditions Determination of the diffusion coefficient for the mass transport in gas  Note: The above equipment should have an instructional/operational manual and an experiment manual for different experiments.	•			
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