

ILLINOIS CENTRAL COLLEGE
One College Drive
East Peoria, Illinois 61635

PURCHASING DEPARTMENT
(309) 694-5438

INVITATION TO BID

BIDDER'S QUOTATION REFERENCE: **Puritan Bennett™ 980 Ventilator System**

BID OPENING DATE: Tuesday, May 7, 2019
8:30 A.M., C.D.S.T.

RETURN BID TO: ILLINOIS CENTRAL COLLEGE
PURCHASING DEPARTMENT – L120
ONE COLLEGE DRIVE
EAST PEORIA IL 61635

Bids must be received in the Purchasing Department, 4th floor of the Administration Building, Illinois Central College, East Peoria, Illinois prior to the date and time shown above when they will be publicly opened and read. Bids are to be submitted on this form or a photocopy thereof and in the envelope provided. Failure to comply with these requirements may result in your bid being disqualified.

Company

Address

City, State, and Zip

Telephone Number

Fax Number

INSTRUCTIONS TO BIDDER

1. General

The Board of Trustees of Illinois Central College invites you to submit a bid proposal for a **Puritan Bennett™ 980 Ventilator System**. Bid proposals will be due at the Purchasing Department, Illinois Central College, East Peoria, Illinois at 8:30 A.M., Tuesday, May 7, 2019.

Two sets of bid forms are included for your convenience. One copy is for your files. The other copy must be signed, sealed, and submitted in the enclosed green envelope labeled **Puritan Bennett™ 980 Ventilator System**. Unsigned or late bids will not be considered. Proposals will be available for inspection in the Purchasing Department following the bid opening as stated on the cover sheet of this document.

2. Submitting your Bid

Bids are to be submitted on the bid document furnished by Illinois Central College and must be sealed in the bid envelope provided by Illinois Central College, or alternatively in a sealed container. The following information must be clearly shown on the outside of the sealed bid envelope or sealed container or your bid will not be accepted: vendor name and address, bid title, bid opening date and bid opening time. Only one bid will be accepted in each envelope or container.

When bids are submitted through a courier service, each bid must be sealed in the bid envelope or other envelope or container, with all required information identified above, and placed inside the courier envelope.

Bids submitted to the College through a facsimile machine or by telegram or mailgram will not be accepted.

Compliance with the above conditions, will be at the sole discretion of the Purchasing Department, Illinois Central College.

3. Specifications

These specifications as prepared by Illinois Central College are attached and complete. Bidder's must, in compliance with these specifications:

- a) clearly identify the manufacturer and model of all equipment called out in the specifications,
- b) provide catalog sheets of all equipment being bid, with sufficient data to determine compliance with specifications,
- c) identify all exceptions to the specifications as written necessary for any item of equipment being bid.
- d) bid only new equipment.

Questions or concerns regarding these specifications should be addressed to the attention of the Purchasing Coordinator, Illinois Central College.

4. Public Information

All materials submitted by bidder(s) will be made available for public inspection. This information will be available for public inspection during normal business hours at the Purchasing Department, Illinois Central College, East Peoria, Illinois. Every bidder is hereby

warned that no part of his proposal or any other material submitted may be marked as confidential information, and that any material so designated by the bidder will be made public information by its inclusion in this proposal.

5. Clarification of Bids

Illinois Central College reserves the right to obtain clarification of any point in a firm's bid or to obtain additional information. Failure of a bidder to respond to such a request for additional information or clarification could result in rejection of the bidder's proposal.

6. Errors and Omissions

All documents shall be completed as requested by the College. No claim for errors or omissions in the bidding will be considered. Should a bidder find during examination of specifications or other contract documents, discrepancies, omissions, ambiguities or conflict among contract documents or be in doubt as to their meaning, it is the responsibility of the bidder to notify the Purchasing Coordinator who will issue the necessary clarifications to all prospective bidders by means of addenda.

If an error in pricing is found, the bidder will be released from obligation if: 1) such error is realized prior to recommendation for award to the College Board of Trustees and 2) the bidder requests in writing to withdraw his price which resulted in the error, prior to recommendation for award to the College Board of Trustees. Any bidder submitting a request to withdraw a price after recommendations have been made to the College Board of Trustees will be advised that withdrawal at this point would be cause for and result in disqualification of entire bid document. All inquiries concerning the above should be addressed to the Purchasing Coordinator.

7. Warranty and Guarantee

The bidder warrants and guarantees to the College that all materials and equipment will be new. All items shall have 100% warranty against defects in material and workmanship for a period of 1 year which shall start when the equipment is assembled, tested and accepted. When the manufacturer's normal warranty period is greater than one year, such longer period shall apply. Any exceptions shall be clearly specified in writing and furnished with the bids.

8. Tax Exempt Status

Illinois Central College is exempt from paying sales tax under the statutes of the State of Illinois. Our tax exemption identification number is E9993-0293-06.

9. Tie Bids

In the event of a tie bid between an in-district vendor and an out-of-district vendor, all other factors remaining equal, the in-district vendor shall be favored with the award. Tie bids between two in-district vendors shall be decided by the earliest received stamp.

10. Firm Prices

All prices will be considered firm for a period of forty-five (45) days from date of bid opening or until award is made, whichever comes first.

11. Award

The award of the contract, if it's awarded, will be to the lowest responsible bidder. This contract will be awarded in the best interest of the parties involved. Illinois Central College reserves the right to reject any or all proposals and to waive minor informalities in any quotation in order to make this award.

The owner may negotiate only with the apparent successful bidders, and then only to change or delete equipment with the associated contractual price to meet budget requirements. The owner will contact the bidders as needed for clarification during the period between the bid opening and the time of award. Upon recommendation for award, the owner will forward in writing to each participating vendor, a recapitulation of the competitive prices received concerning this project.

12. Payment

Payment will be made in accordance with the policies and procedures of the Illinois Community College Act and the Board of Trustees of Illinois Central College. Payment will be made in approximately forty-five (45) days following receipt and acceptance of equipment by the College.

13. Acknowledgment of Addenda

Signature of company official on original bid document shall be construed as acknowledgment of receipt of any and all addenda pertaining to this specific bid. Identification of addenda by number, should be noted on the contract proposal form, as provided.

14. Affirmative Action

It is the policy of Illinois Central College that no person shall, on the grounds of race, color, religion, sex, age, national origin, ancestry, disability or veteran status, be excluded from consideration for employment, denied employment with or be subject to discrimination of any kind by the College.

In accordance with this policy, we support and encourage minority and female participation in all aspects of our institution, as well as with those individuals who interact with us.

15. Bid Proposal Form

The Bid Proposal Form is included in the contract documents. Bid Proposal Forms must be completed in ink or by typewriter. The bid price of each item on the form must be stated in words and numerals; in case of a conflict, words will take precedence.

All bids must be signed. Unsigned bids will not be considered. All names must be typed or printed below the signature to ensure legibility.

16. Disclaimers

Any Invitation to Bid issued may or may not result in an award of contract(s). However, Illinois Central College reserves the right to cancel any Invitation to Bid at any time and for any reason and to reject all bids. Receipt of bid materials from Illinois Central College or submission of a bid proposal to Illinois Central College confers no rights upon the vendor nor obligates Illinois Central College in any manner.

The determination of whether any bid by a vendor does or does not conform to the conditions and specifications of this Invitation to Bid is the responsibility of Illinois Central College.

Any contract resulting in an award from this Invitation to Bid is invalid until properly approved and executed by Illinois Central College.

A contract resulting from the Invitation to Bid shall not preclude Illinois Central College from obtaining equipment from other vendors if the successful vendor for this Invitation to Bid is unable to satisfy the project needs in an acceptable manner.

BID SPECIFICATIONS

Illinois Central College is requesting bids for a Puritan Bennett™ 980 Ventilator System for use in the Respiratory Therapist program. The simulator should be a fully functional Puritan Bennett 980 Ventilator System with the options as specified in the bid specifications. Equivalent items of another brand are NOT acceptable as the intent of the purchase is to provide a Puritan Bennett™ 980 Ventilator System for students to learn on and gain sufficient experience to be prepared to start their hospital clinical time experienced in the Puritan Bennett™ 980 Ventilator System used at their clinical sites.

Qty. Description

- 1 Puritan Bennett™ 980 Ventilator System – Universal (980U1ENDIUUS) –ships with 1 Ped/Adult exhalation Filter, 2 EVQs, 1 EVQ seals kit, flex arm, gold standard circuit, Op Man on CD, power cord and software options PAV+, Leak Sync, BiLevel 2.0, Neomode, Prox Flow (plus standard software features including VV+, Respiratory Mechanics, Trending, Tube Compensation)

To Include:

- Ped/Adult exhalation Filter (1)
- EVQs (2) (exhalation valve flow sensor)
- EVQ seals kit (1)
- Flex Arm (1)
- Gold Standard Test Circuit (1)
- Electronic Operation Manual on CD
- power cord
- software options PAV+ with most up to date version of software/upgrades as of ship date
- Leak Sync
- BiLevel 2.0
- Neomode
- Prox Flow (plus standard software features including VV+
- Respiratory Mechanics
- Trending
- Tube Compensation
- 120 V~, 50–60 Hz, 6.0 A ready

BID SPECIFICATIONS (Continued)

Capabilities:

Sound Level	48 dBA at 5 L/min and at a distance of 1 meter
Weight display	Kilograms (kg) or pounds (lb) — user selectable
Length display	Centimeters (cm) or inches (in) — user selectable
Pressure display	Hectopascal (hPa) or centimeters of water (cmH ₂ O) — user selectable

PNEUMATIC SPECIFICATIONS

Oxygen and air inlet supplies	Pressure: 241 to 600 kPa (35 psi to 87 psi) Flow: Maximum of 200 L/min
Gas mixing system	Up to 80 L/min for pediatric circuit type Up to 150 L/min for adult patients. Additional flow is available (peak flow to 200 L/min) for compliance compensation
Maximum limited pressure (PLIM max)	Limits circuit pressure to < 125 cmH ₂ O (123 hPa) at the patient wye
Maximum working pressure (PW max)	PW max is ensured by the high pressure limit when PI is 90 cmH ₂ O (88.26 hPa)

Measuring Devices

Pressure measurements	Type: Solid-state differential pressure transducer Sensing position: Inspiratory module, expiratory module
Flow and volume measurements	Type: Hot film anemometer Sensing position: Inspiratory module, expiratory module Type: Proximal flow sensor option utilizes differential pressure Sensing position: Patient wye
Oxygen measurement	Type: Galvanic cell Sensing position: Inspiratory module
Oxygen sensor life	Up to one year; operating life varies depending on oxygen usage and ambient temperature

Filtration Capabilities

Internal inspiratory filter bacterial/viral filtration efficiency	> 99.999%
Internal inspiratory filter particle filtration efficiency	>99.97% retention of particles 0.3 µm nominal at 100 L/min flow
Exhalation filter resistance (adult/pediatric, disposable)	<0.7 cmH ₂ O at 30 L/min (new) <0.35 cmH ₂ O at 15 L/min
Expiratory filter bacterial/viral filtration efficiency	> 99.999%
Exhalation filter particle filtration efficiency, pediatric/adult, disposable	Maximum of 0.03% penetration of particles 0.3 µm nominal at 30 L/min flow

Circuit Compliance and Resistance

Circuit compliance	Pediatric: 1.05 mL/cm H ₂ O to 9 mL/cm H ₂ O Adult: 1.05 mL/cm H ₂ O to 12 mL/cm H ₂ O
Inspiratory limb circuit resistance	Pediatric: 0.2 cm H ₂ O/L/s to 7.5 cm H ₂ O/L/s at 30 L/min Adult: 0.2 cm H ₂ O/L/s to 12.5 cm H ₂ O/L/s at 60 L/min
Expiratory limb circuit resistance	Pediatric: 0.2 cmH ₂ O to 7.5 cmH ₂ O at 30 L/min Adult: 0.2 cmH ₂ O to 12.5 cmH ₂ O at 60 L/min

ELECTRICAL SPECIFICATIONS

Electrical ratings without compressor	100 V ~, 50–60 Hz, 2.25 A 120 V ~, 50–60 Hz 1.5 A 220–240 V ~, 50–60 Hz, 0.75 A
Mains overcurrent release	CB1: 4 A CB2: 6 A
Earth leakage current	300 mA
Touch current	100 mA
Patient leakage current	100 mA maximum
Electrical ratings with DC compressor	100 V~, 50–60 Hz, 8.25 A 120 V~, 50–60 Hz, 6.0 A 220–240 V~, 50–60 Hz, 3.0 A

ENVIRONMENTAL SPECIFICATIONS

Temperature	Operation: 10°C to 40°C (50°F to 104°F) Storage: -20°C to 70°C (-68°F to 158°F)
Atmospheric pressure	Operation: 70 kPa to 106 kPa (10.15 psi to 15.37 psi) Storage: 50 kPa to 106 kPa (7.25 psi to 15.37 psi)
Altitude	Operation: -411.5 m to 3048 m (-1,350 ft to 10,000 ft) Storage: 6,096 m max (20,000 ft max)
Relative humidity	Operation: 10% to 95% non-condensing Storage: 10% to 95% non-condensing

Parameter	Range
Predicted body weight (PBW)	3.5 kg (7.7 lb) to 150 kg (330 lb)
Modes	Assist Control (A/C), Synchronized Intermittent Mandatory Ventilation (SIMV), Spontaneous (SPONT), BiLevel, Continuous Positive Airway Pressure (CPAP)
Mandatory breath types	Volume Control (VC), Pressure Control (PC), Volume Control Plus (VC+)
Spontaneous breath types	Pressure Support (PS), Volume Support (VS), Tube Compensation (TC), Proportional Assist™* Ventilation PAV™*+ software
Ventilation type	Invasive and Noninvasive (NIV)
Pressure support (PSUPP)	0 cmH ₂ O to 70 cm H ₂ O
Rise time %	1% to 100%
Expiratory sensitivity (ESENS)	1% to 80%; 1 L/min to 10 L/min with PAV™*+
Tidal volume (VT)	25 mL to 2,500 mL Resolution: 0.1 mL for values <5 mL; 1 mL for values 5 mL to 100 mL;

	5 mL for values 100 mL to 395 mL; 10 mL for values ≥ 400 mL
Respiratory rate (<i>f</i>)	1.0 1/min to 150 1/min with Puritan Bennett™ 980 Universal ventilator
Peak inspiratory flow (VMAX)	3 L/min to 150 L/min
Plateau time (TPL)	0.0 to 2.0 seconds
Inspiratory pressure (PI)	5 to 90 cmH2O
Inspiratory time (TI)	0.2 to 8.0 seconds
I:E ratio	1:299 to 149:1
Expiratory time (TE)	≥ 0.20 seconds Resolution: 0.01 s
Trigger type	Pressure-triggering (P-TRIG) or flow-triggering (V- TRIG)
Pressure sensitivity (PSENS)	0.1 cmH2O to 20 cmH2O
Flow sensitivity (VSENS)	0.2 L/min to 20 L/min
O2%	21% to 100%
Positive end expiratory pressure (PEEP)	0 cmH2O to 45 cmH2O
Apnea ventilation mandatory type	PC, VC
Apnea peak inspiratory flow (VMAX)	3.0 L/min to 150 L/min
Apnea tidal volume (VT)	25 mL to 2,500 mL
Apnea inspiratory pressure (PI)	5 cmH2O to 90-PEEP cmH2O
Apnea interval (TA)	Apnea interval (TA) 10 to 60 seconds or Off in CPAP
Apnea respiratory rate (<i>fA</i>)	2.0 1/min to 40 1/min and ≥ 60 /TA
Apnea O2%	21% to 100% O2
Apnea I:E ratio	$\leq 1.00:1$
Apnea inspiratory time (TI)	0.20 to 8 seconds
Apnea expiratory time (TE)	0.20 to 59.8 seconds
Disconnect sensitivity (DSENS)	20% to 95% or Off (when Puritan Bennett™ ventilator with Leak Sync software is disabled); 1 L/min to 65 L/min (when Puritan Bennett™ ventilator with Leak Sync software is enabled)
Humidification type	Heat-moisture exchanged (HME), non-heated expiratory tube, heated expiratory tube
Humidifier volume	100 mL to 1,000 mL
Patient circuit type	Pediatric and adult

ALARMS

Exhaled tidal volume	Low/high
Exhaled minute volume	Low/high
Inspired tidal volume	High
Respiratory rate	High
Circuit pressure	Low/high
Apnea interval	10 to 60 seconds or Off in CPAP

RESPIRATORY MANEUVERS

Negative inspiratory force (NIF)	≤ 0 cmH2O to ≥ -50 cmH2O
P0.1	≥ -20 cmH2O to 0 cmH2O

Vital capacity (VC)	0 mL to 6,000 mL
ADVANCED DISPLAYED PATIENT DATA	
% Leak	0% to 100%
Inspiratory leak volume (VLeak)	0 mL to 9,000 mL
Leak	0 L/min to 200 L/min
Spontaneous rapid shallow breathing index (f/VT)	0.1 1/min-L to 600 1/min-L
Dynamic resistance (RDYN)	0 cmH2O/L/s to 100 cmH2O/L/s
Dynamic compliance (CDYN)	0 mL/cmH2O to 200 mL/cmH2O
Inspiratory compliance (C20/C)	0 to 1.00

In all cases, when bidding an “Equivalent” to brand specified, it is mandatory that bidder furnish with the bid detailed literature and/or specifications to be used in evaluation of product that ensure standard of quality, performance, and characteristics desired are met. Failure to submit said information will be cause for bid not to be considered. Illinois Central College will be the sole judge of whether an article will be deemed to be equal. A bidder’s failure to meet the minimum specifications as listed will result in disqualification of the bid. **FOR THIS BID, EQUIVALENT PRODUCTS WILL NOT BE CONSIDERED.**

Warranty: Three-year warranty
Installation: On-site Installation
Training: On-site Training

BID PROPOSAL FORM

BID TO: ILLINOIS CENTRAL COLLEGE

BID FROM: _____
for " **Puritan Bennett™ 980 Ventilator System** "

The undersigned:

1. Acknowledges receipt of:
 - A. Bid documents for "**Puritan Bennett™ 980 Ventilator System**"
 - B. Addenda No. _____ through No. _____.
2. Has received and examined bid documents and submits the following costs based on the specifications as written by Illinois Central College.
3. Agrees:
 - A. To hold this bid open until 45 calendar days after the bid opening date.
 - B. To accept provisions of "Instructions to Bidders".

Item	Qty	Description	Unit Price
980U1ENDIUUS	1	Puritan Bennett™ 980 Universal Ventilator System as specified Manufacturer: <u>Puritan Bennett™</u> Model/Catalog No. 980 980U1ENDIUUS	\$ _____
G-061208-SP	1	Adult Breathing Circuit, without heated wire	
G-061223-00	1	Pediatric Breathing Circuit, w/o heated wire	
10086042	2	Rechargeable Lithium-Ion Battery	
10005490	1	Test Lung	
4-001474-00	1	Oxygen Hose Assembly	
4-006541-00	1	Air Hose Assembly	
10063031	1	Condensate Vial	
10077893	1	Operators Manual (English) Printed Copy	
10084334	1	Proximal Flow Host Board	
10084331	1	Proximal Flow Module Hardware Install Kit	
10047078	1	Proximal Flow Monitoring Sensor	
	1	3 Year Warranty	\$ _____
Total Price			\$ _____

Signature of Company Official

Name of Company Official

Title of Company Official

Email address of Company Official

Date