



National Kidney and Transplant Institute
Special Bids and Awards Committee
 East Avenue, Quezon City 1100
 981-0300 / 981-0400 local 1157
<http://www.nkti.gov.ph/>

SUPPLEMENTAL BID BULLETIN NO. 21-093-1

Third bidding for One (1) Lot Supply, Delivery, Testing and Commissioning of Two (2) units Mechanical Ventilator with Fully Integrated Electrical Impedance Tomography

Bid Reference IB No. 21-093

This Supplemental Bid Bulletin No. 21-093-1 is being issued to clarify, modify and amend items/specifications in the Bidding Documents for the aforementioned project, to wit:

A. Changes in some items Technical Specifications

Particulars	Changes
Technical Specifications	Revised Technical Specification
RS232 Interface for the transfer of data from ventilators	RS232 or USB 3.0 Port Interface for the transfer of data or image from ventilators
Set ECG electrodes good for first 10 patients per unit	Set ECG electrodes good for first 10 patients per unit
EIT data files can be recorded	EIT data or image files can be recorded
Recorded EIT data files are stored on the hard disk of the EIT device	Recorded EIT data or image files are stored on the hard disk of the EIT device
The recorded EIT data files can be reviewed (on the device) for further analysis	The recorded EIT data or image files can be reviewed (on the device) for further analysis
EIT data files may be transferred to a USB storage medium	EIT data or image files may be transferred to a USB storage medium
EIT data files can be reviewed using provided software on a separated computer	EIT data or image files can be reviewed using provided software on a separated computer
Mechanical Ventilator	Mechanical Ventilator
Turbine with compressor technology	Turbine with compressor technology or Turbine or Compressor Technology
Accessories	Accessories
Heated Humidifier with chamber	Heated Humidifier with chamber as per manufacturer standard
	Please see attached Revised Technical Specification

This Supplemental Bid Bulletin including Annexes, if any, shall form part of the Bid Documents. Any provisions in the Bid Documents inconsistent herewith is hereby amended, modified and superseded accordingly.

For guidance and information of all concerned.

Issued this 14th day of June 2021 in Quezon City.

JOSEPH MICHAEL A. JARO, MD
SBAC Chairman



National Kidney and Transplant Institute
Special Bids and Awards Committee
 East Avenue, Quezon City 1100
 981-0300 / 981-0400 local 1156/1186
<http://www.nkti.gov.ph/>

Section VII

Revised Technical Specifications

Instruction:

Bidders must state in the column provided either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.

Item	Specification	Statement of Compliance
1	MECHANICAL VENTILATOR WITH FULLY INTEGRATED ELECTRICAL IMPEDANCE TOMOGRAPHY	
	Electrical Impedance Tomography	
	General Description	
	Electrical Impedance Tomograph, which has been specially designed for use in clinical routine with continuous real-time dynamic images of ventilation and intrapulmonary air distribution at the bedside	
	Capability	
	Continuous information about regional distribution of ventilation, displayed as images, waveforms and parameters	
	Basic Hardware and Accessories	
	The offer includes all equipment and accessories required for operation.	
	15 inch or more touch screen monitor/display	
	Power supply module with internal battery in case of line power failure	
	Trolley	

	Trunk Cable	
	RS232 or USB 3.0 Port Interface for the transfer of data or image from ventilators	
	2 sets of Electrode belt per unit - S, M, L, XL, and XXL sized	
	2 sets of Patient Cable - S, M, L, XL and XXL sizes	
	Set electrodes good for first 10 patients per unit	
	Operating Concept	
	The EIT device can be operated in induction rooms, recovery rooms, operating rooms and intensive care unit	
	The device is suitable for use on patients greater than 5 years of age with chest circumferences between 70 and 150cm	
	With automatic software self-test when device is switch on and with stand-by functionality	
	A function for freezing the display is available, for further analysis	
	Screenshot can be exported to a USB storage medium	
	A reference measurement can be made with display of time of measurement, which also includes image, waveforms and parameters	
	The device indicates the skin-electrode contact	
	Three Real-time waveforms can be imported from ventilators (e.g. volume, PAW, Flow)	
	The imported volume waveform can be displayed on the main screen of the EIT device	
	Trend data can be imported from compatible ventilators with a selection from different parameters (e.g. PPEP, PIP, RR, VT, etCO2)	
	EIT data or image files can be recorded	
	Recorded EIT data or image files are stored on the hard disk of the EIT device	
	The recorded EIT data or image files can be reviewed (on the device) for further analysis	
	EIT data or image files may be transferred to a USB storage medium	
	EIT data or image files can be reviewed using provided software on a separated computer	

	Monitoring	
	The graphic user interface is touch sensitive with a diagonal measurement of at least 15inch	
	A "Cause and Remedy" table for displayed messages is available (in the Instruction for use)	
	A 15 electrodes mode is available that is automatically used if one electrode has non-sufficient skin contact	
	At least 9 fixed keys for frequently used functions are available on the main screen with 4 different screen views available	
	The main monitoring screen can simultaneously displayed 5 or more impedance waveforms and related numeric data	
	The relative impedance changes of the entire electrode plane are represented by a waveform display	
	The electrode plane can be divided, by the user, into 4 regions	
	Each region of interest is represented by an individual impedance waveform representing relative impedance changes in the defined areas	
	This distribution of ventilation within each region (as a percentage of ventilation within the electrode plane) is displayed	
	A dynamic image continuously displays the distribution of ventilation	
	An image can show distribution of ventilation for the last detected breath	
	An image can show distribution of ventilation averaged over the last minute	
	The local variation of tidal volume can also be displayed as an averaged value over the last minute	
	The distribution of ventilation can be trended for up to a 120 minute	
	Two points of interest in the 120 minutes trend of distribution of ventilation can be selected and used to inform a differential image	
	Changes, within the electrode plane, of end-expiratory lung impedance can be trended over 120 minutes OR more	
	Changes of end-expiratory lung impedance over a period of 120 minutes can be displayed for each user selected region of interest	
	Two points of interest in 120 minutes trend of changes of regional end-expiratory status at the current cursor positions 1 and 2 in relation to the global tidal variation is displayed as a numeric value	

	The number of breath detected each minute can be displayed	
	An image can show the ventilated pixels for the last detected breath	
	An image can show the ventilated pixels for trended data of up to 120 minutes	
	Data Recording and Analysis	
	Patient data such as name, age, or date of birth can be entered	
	EIT files can be recorded	
	Recorded EIT data files are on the hard disk of the EIT device	
	The recorded EIT data files can be reviewed (on the device) for further analysis	
	Mechanical Ventilator	
	Patient type adult and pediatric	
	LCD or LED colored touch screen	
	Storage and display of up to 1000 events with date and time stamp	
	Universal breathing circuit compatible	
	Built-in nebulizer	
	Apnea back-up ventilation	
	Non-heated or heated re-usable flow sensor	
	Integrated Battery Power 2-4 hours	
	Extensive monitoring package: waveform, loop and trend display	
	Turbine with compressor technology or Turbine or Compressor Technology	
	Power Supply: Auto Volt 100-240VAC, 50-60Hz	
	Automatic leak compensation during non-invasive ventilation	
	Ventilation Modes	
	Volume Control, Pressure Control	

	SIMV, PSV, CPAP, SPONT	
	APRV or PRVC or Duo-PAP or its equivalent advance ventilator settings	
	BIPAP	
	NIV	
	Monitored Parameters	
	Tidal Volume	
	Minute Ventilation	
	Breathe Rate	
	Spontaneous Rate	
	Expiratory Time	
	Inspiratory Time	
	I:E Ratio	
	Peak Pressure	
	Mean Airway Pressure	
	RSBI	
	PEEP	
	FiO2	
	Manual Controls	
	Expiratory Hold Maximum 6 sec	
	Inspiratory Hold Maximum 6 sec	
	Primary Setting	
	Rate (bpm) 4 - 90	
	Tidal Volume (ml) 15 - 2000	
	Minute Volume (l/min) 0.5 - 60	

	SIMV Rate (bpm) 1 - 60	
	FiO2 (%) 21 - 100	
	I:E Ratio 1:10 - 4:1	
	PEEP (cmH2O) 1 - 50	
	Pressure Trigger (cmH2O): -1 to -20 or better OR Flow Trigger (L/min.): 0.5 to 10 liter or better	
	Inspiratory Time (s) 0.1 - 8 or better	
	Pressure Control or Functional Equivalent (cmH2O) 3 – 60 or better	
	Alarms	
	High/Low Pressure	
	High/Low Minute Volume	
	High/Low Volume	
	Low or Insufficient or No Oxygen Pressure	
	Ventilator Inoperative or failure	
	Standards	
	IEC and UL Compliant	
	Accessories	
	Heated Humidifier with chamber as per manufacturer standard	
	Mobile Trolley	
	Test Lung	
	Oxygen Hose	
	Oxygen Gauge	
	Flow Sensor five (5) pieces per unit	
	Un-interruptible Power Supply	
	- On-Line	

	- 1KVA	
	- 220 +/- 10% VAC, 60Hz Single Phase or AUTOVOLT	
	- Built-in Energy Meter	
	- Graphical LCD Display	
	* Input & Output Voltage	
	* Output Frequency	
	* Runtime	
	* Load	
	* Battery Health	
	- Bypass Switch	
	One (1) Pedia and One (1) Adult disposable patient circuit	
	Support or Flex Arm	

Conforme:

Name: _____

Legal Capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____