

High Commission of India  
Colombo



**CORRIGENDUM**

Reference Tender No. Col/Com/228/1/2015-Equip/tender dated 22May2016 for Supply of Medical Equipment for 200 bed ward complex at District General Hospital, Vavuniya in Sri Lanka.

Bidders may note the following changes in the Tender documents:

**1. Terms & Conditions**

**Clause 2:** Last date for issuance of tender document is extended till 27 June 2016.

**Clause 3 & 8:** The technical bids will be opened in presence of authorized representatives of bidders **at 1530 hrs on 28 June 2016** in the High Commission of India, Colombo, Sri Lanka

**Clause 6:** Bid may be submitted on or before **1500 hrs on 28 June 2016**

**2. Specifications**

**A. Package One:** Supply and Installation of Pipe Medical gas system:  
Specification can be read as follows

<b>N r</b>	<b>Equipme nt and Instrume nt</b>	<b>Specification</b>																					
0 1	Wall Oxygen System	Expansion of the available piped medical gas system 1. Thirty two Oxygen outlets, eight suction outlets and four air outlets. 2. Three pressure changeovers. 3. Three zone valves. 4. Necessary lockable valves. Pipes and consumables. 5. Two years warranty.  The following requirement should be fulfilled: <table border="1"><tr><td>Oxygen Outlets</td><td>:</td><td>32 nos.</td></tr><tr><td>Medical Air Outlets</td><td>:</td><td>4 nos.</td></tr><tr><td>Vacuum Outlets</td><td>:</td><td>8 nos.</td></tr><tr><td>Area Valve Service Units</td><td>:</td><td>2 nos.</td></tr><tr><td>Area Alarm Units</td><td>:</td><td>2 nos.</td></tr><tr><td>3 gas Zone Wall Units with Area Alarm</td><td>:</td><td>2 nos.</td></tr><tr><td>15mm Lockable Line Valves</td><td>:</td><td>18 nos.</td></tr></table>	Oxygen Outlets	:	32 nos.	Medical Air Outlets	:	4 nos.	Vacuum Outlets	:	8 nos.	Area Valve Service Units	:	2 nos.	Area Alarm Units	:	2 nos.	3 gas Zone Wall Units with Area Alarm	:	2 nos.	15mm Lockable Line Valves	:	18 nos.
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3 gas Zone Wall Units with Area Alarm	:	2 nos.																					
15mm Lockable Line Valves	:	18 nos.																					

	22mm Lockable Line Valves	:	10 nos.
	28mm Lockable Line Valves	:	4 nos.
	15mm Copper Pipes	:	250 mts.
	22mm Copper Pipes	:	230 mts.
	28mm Copper Pipes	:	100 mts.
	<b>* Bidder may note that the site can be inspected before quoting the prices</b>		

**B. Package Two:** Specification form Item no 4: Ventilator can be read as “Therapeutic Ventilator” and the specifications are as follows

Nr	Equipment and Instrument	Specifications
04	Therapeutic Ventilator	<p>1. The unit shall operate on power supply of 230V <math>\pm</math>10% ,50Hz.</p> <p>2. It shall be suitable for long duration uses for adult and paediatric therapeutic applications.</p> <p>3. It shall be possible to operate the ventilator on following modes.</p> <p>Volume controlled</p> <p>Pressure controlled</p> <p>Pressure support</p> <p>SIMV</p> <p>CPAP</p> <p>Bilevel ventilation</p> <p>Non-invasive ventilation</p> <p>4. The unit shall be able to create flow patterns of constant, acceleration &amp; deceleration.</p> <p>5. The unit shall have the following controls.</p> <p>Working pressure : 0-120 cm H<sub>2</sub>O</p> <p>Tidal volume : 100 - 2000 ml</p> <p>Respiratory rate : 4 - 60 b/min.</p> <p>I : E Ratio : 1 : 4 - 4 : 1</p> <p>Insp &amp; exp time : 0.3 - 2 sec &amp; 0.5 - 5 sec</p> <p>Insp pause time : 25% of insp time</p> <p>Airway pressure : 0 - 100 cm H<sub>2</sub>O</p> <p>Peak inspiratory flow : 0 - 120 l/min.</p> <p>PEEP : 0 - 30 cm H<sub>2</sub>O</p> <p>Trigger sensitivity (pres): -20 - 0 cm H<sub>2</sub>O below PEEP</p> <p>Trigger sensitivity (flow): -0.1 - 8 l/min below PEEP</p> <p>O<sub>2</sub> concentration : 21-100 %</p> <p>Tidal volume and respiratory shall be adjustable independently.</p> <p>6. The display shall be a touch screen control model and the size shall not be less than 12 “.</p>

		<p>7. Following monitoring facilities shall be incorporated with the unit.</p> <p>Working pressure</p> <p>Airway pressure</p> <p>Expired minute volume</p> <p>Tidal volume</p> <p>Respiratory rate</p> <p>I : E ratio</p> <p>O<sub>2</sub> concentration</p> <p>Pressure, volume and flow, time waveform</p> <p>Flow volume and pressure volume loops</p> <p>Facilities to calculate airway resistance, compliance and work of breathing</p> <p>Facility to calculate PEEP, lower &amp; Upper infection points</p>	
		<p>8. There shall be audible &amp; visual alarms for</p> <p>High/Low Pressure</p> <p>High/Low Minute volume</p> <p>High/Low O<sub>2</sub> concentration</p> <p>Apnea</p> <p>Air/Oxygen failure</p> <p>Power failure</p> <p>Low battery</p>	
		<p>9. A dual servo heated type humidifier with autoclavable, reusable chambers and temperature 32 – 37<sup>o</sup> C shall be included together with the equipment. Display for airway and chamber temperature and high/low airway temperature alarm should be available.</p>	
		<p>10. The unit shall be supplied with all standard accessories such as autoclavable patient circuit, swivel type corrugated catheter mounts, O<sub>2</sub> &amp; air hoses with connectors necessary for satisfactory operation of the unit.</p>	
		<p>11. The following accessories shall be quoted separately.</p> <p>(a) Air Compressor :- Flow - 60 l/min at 4 bar Oil free of medical grade</p> <p>(b) Mobile stand for ventilator</p>	
		<p>12. The following accessories shall be supplied with each unit:</p> <p>Adult patient circuit with water trap (autoclavable) 02</p> <p>Paediatric patient circuit with water trap (autoclavable) 02</p> <p>Adult humidifier chamber with heater wire 01</p> <p>Paediatric humidifier chamber with heater wire 01</p> <p>NIPPV circuit for adult (autoclavable) 01</p> <p>NIPPV circuit for paediatric (autoclavable) 01</p> <p>NIPPV masks for adult</p>	

		01	
		NIPPV masks for paediatric	01
		Adult test lung	01
		Paediatric test lung	01
		Bacteria filter	100
		Temperature probe for humidifier	02
		Filter papers 100 pcs (adult/paediatric)	02
		A complete and detailed set of operation, service and maintenance manuals in English must be supplied with each unit.	
		13. Fully graphic, illustrated original technical literature in ENGLISH describing the equipment offered & detailing the specifications shall also be supplied with the offer.	
		14. The equipment supplied must be covered by a comprehensive "parts & labour" warranty for a period of at least 24 months from the date of delivery.	

**C. Package Ten:** Exercise Tolerance Test can be read as "**Tread Mill**"

**D. Package Eleven:** Item no Six: Wheel Chair: Specification no 1 can be read as Chromium plated steel or any other corrosion free material instead of stainless steel.

3. The last date of submission of bids has been extended till **3.00pm on 28 June 2016**

**Other terms and conditions remain same as that of the original tender document**

