

# **Corrigendum**

**In Tender Document  
Tender for Rate Contract of CTVS department  
Tender Enquiry NO. 24/RC/Consumables/CTVS/490-Rish(Admn)2019**

**Dated: 20/05/2019**

1. Institute Website- AIIMS Rishikesh
2. Central Public Procurement Portal

Sub: -Corrigendum for “Rate Contract of Consumables for CTVS Department at AIIMS Rishikesh ” in Tender No. 24/RC/Consumables/490-Rish(Admn)2019

## **1.Point No. 8 Page No. 24:**

**For:** - Angled Tip Arterial Cannula Sized 8 Fr -24 Fr Pediatric and Adult, (h) 22Fr.

**Read as:** - Angled Tip Arterial Cannula Sized 8 Fr -24 Fr Pediatric and Adult, (h) 22Fr/21Fr (Either for 22Fr or 21 Fr).

## **2.Point No. 9 Page No. 24:**

**For:** - Straight Tip Aortic Cannula Sizes 8Fr-24 Fr vented and Non vented; Pediatric and Adult (c) 22Fr.

**Read as:** - Straight Tip Aortic Cannula Sizes 8Fr-24 Fr vented and Non vented; Pediatric and Adult, (c) 21Fr/22Fr.

## **3.Point No. 11 Page No. 24:**

**For:** - Femoral One-piece Arterial and venous cannula kit: a) 8Fr b) 10Fr c) 12Fr d) 14Fr e)15Fr f)17Fr g)19Fr h)21Fr

**Read as:** - A. Femoral One-piece Arterial Cannula Kit (f) 17/18Fr (g) 19/20Fr

B. Femoral One-piece Venous Cannula Kit (f) 17/18Fr (g) 19/20Fr (h)21/22Fr (i) 23/24Fr (k) 27/28Fr

Prices of the item (i) and (k) is to be quoted in BoQ in part of buyer details along with GST.

**4.Point No. 41 Page No. 27:**

**For: -**

SPECIFICATION FOR ADULT OXYGENATOR	<ul style="list-style-type: none"><li>• Priming volume should be less than 300 ml.</li><li>• Blood flow range should be 0-7lts/min.</li><li>• Oxygen transfer should be atleast 400ml/min.</li><li>• Heat exchange efficiency should not be less than 0.50.</li><li>• Housing material should be of polycarbonate.</li><li>• Surface area of the fibers should be from 1.8m<sup>2</sup> to 2.4m<sup>2</sup></li><li>• Heat exchanger should be made of stainless steel and surface area should be approx. 20cm<sup>2</sup> Blood inlet port (from pump) 3/8 Blood outlet port 3/8 Cardioplegia port 1/4 Gas Inlet port 1/4 Gas Outlet port 1/4 Water Ports 1/2 Maximum Pressure Blood inlet 1000 mmHg water Inlet 42 PSI</li><li>• Blood storage capacity of hard shell reservoir should be approx. 4000ml</li><li>• Minimum operating volume of reservoir should be 200ml.</li><li>• Hard shell reservoir should have cardiotomy filter and de-foaming part</li><li>• Hard-shell reservoir should have venous filter with pore size 452mm</li><li>• The hard-shell reservoir should have Venous blood inlet port 1/2 Blood outlet port (to pump) 3/8 Suction ports (six) 1/4 Water Inlet 42 PSI Vertical port to CR Filter 1/4 Quick Prime port 1/4 Auxiliary port 1/4-3/8</li><li>• Sustainable negative pressure should be 15010mmHg.</li></ul>
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**Read as: -**

SPECIFICATION FOR ADULT OXYGENATOR	<ul style="list-style-type: none"><li>• Priming volume should be less than 300 ml.</li><li>• Blood flow range should be 0-7lts/min.</li><li>• Oxygen transfer should be atleast 400ml/min.</li><li>• Heat exchange efficiency should not be less than 0.50.</li><li>• Housing material should be of polycarbonate.</li><li>• Surface area of fiber should be <b>1.4-2.4 meter</b>. Minimum operating volume of reservoir <b>should be 150 ml</b>.</li><li>• Heat exchanger should be made of stainless steel and surface area should be approx. 20cm<sup>2</sup> Blood inlet port (from pump) 3/8 Blood outlet port 3/8 Cardioplegia port 1/4 Gas Inlet port 1/4 Gas Outlet port 1/4 Water Ports 1/2 Maximum Pressure Blood inlet 1000 mmHg water Inlet 42 PSI</li><li>• Blood storage capacity of hard shell reservoir should be approx. 4000ml</li><li>• Minimum operating volume of reservoir should be 200ml.</li><li>• Hard shell reservoir should have cardiotomy filter and de-foaming part</li><li>• Hard-shell reservoir should have venous filter with pore size 452mm</li><li>• The hard-shell reservoir should have Venous blood inlet port 1/2 Blood outlet port (to pump) 3/8 Suction ports (six) 1/4 Water Inlet 42 PSI Vertical port to CR Filter 1/4 Quick Prime port 1/4 Auxiliary port 1/4-3/8</li><li>• Sustainable negative pressure should be 15010mmHg.</li></ul>
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**5.Point No. 43 Page No. 28:**

**For: -**

SPECIFICATION FOR ADULT OXYGENATOR (Integrated with arterial filter & heat exchanger)	Oxygenator should have integrated arterial filter with cardiotomy/venous reservoir. <ul style="list-style-type: none"><li>• Should have integrated arterial filter with self-venting technology.</li><li>• Heat exchanger surface area should be no more than 0.2m<sup>2</sup>.</li><li>• Venous filter should be 50 micro meter.</li><li>• Priming volume should not be more than 350ml.</li><li>• Blood flow range should be 0.5 to 7 LPM.</li><li>• Heat exchange efficiency should not be less than 0.50 at max flow.</li><li>• pressure drop should be minimum, up to 110 mmHg or less.</li><li>• Arterial filter should be 35micron meter.</li><li>• Membrane surface area should be 2-2.5 m<sup>2</sup>.</li></ul>
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**Read as: -**

SPECIFICATION FOR ADULT OXYGENATOR (Integrated with arterial filter & heat exchanger)	Oxygenator should have integrated arterial filter with cardiotomy/venous reservoir. <ul style="list-style-type: none"><li>• Should have integrated arterial filter with self-venting technology.</li><li>• Heat exchanger surface area should be no more than 0.2m<sup>2</sup>.</li><li>• Venous filter should be 50 micro meter.</li><li>• Priming volume should not be more than 350ml.</li><li>• Blood flow range should be 0.5 to 7 LPM.</li><li>• Heat exchange efficiency should not be less than 0.50 at max flow.</li><li>• pressure drop should be minimum, up to 110 mmHg or less.</li><li>• Arterial filter should be 35- 40microns meter.</li><li>• Membrane surface area should be 2-2.5 m<sup>2</sup>.</li></ul>
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**6.Point 44 Page No. 28:**

**For: -**

44	SPECIFICATION FOR SMALL ADULT OXYGENATOR (Integrated Filter and Heat Exchanger)	Oxygenator should have integrated arterial filter with cardiotomy/venous reservoir. <ul style="list-style-type: none"><li>• Should have integrated arterial filter with self-venting technology.</li><li>• Heat exchanger surface area should be no more than 0.14m<sup>2</sup>.</li><li>• Venous filter should be 50micro meter.</li><li>• Priming volume should not be more than 150ml</li><li>• Blood flow range should be 0.5 to 5 LPM.</li><li>• Heat exchange efficiency should not be less than 0.5 max flow @ 5 LPM</li><li>• Pressure drop should be minimum up to 110 mmHg or less.</li><li>• Arterial filter should be 35micro meter.</li></ul>
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**Read as: -**

44	SPECIFICATION FOR SMALL ADULT OXYGENATOR (Integrated Filter and Heat Exchanger)	<p>Oxygenator should have integrated arterial filter with cardiotomy/venous reservoir.</p> <ul style="list-style-type: none"> <li>• Should have integrated arterial filter with self venting technology.</li> <li>• Heat exchanger surface area should be no more than 0.14m<sup>2</sup>.</li> <li>• Venous filter should be 50micrometer.</li> <li>• Priming volume should not be more than 150ml</li> <li>• Blood flow range should be 0.5 to 5 LPM.</li> <li>• Heat exchange efficiency should not be less than 0.5 max flow @ 5 LPM</li> <li>• Pressure drop should be minimum up to 110 mmHg or less.</li> <li>• Arterial filter should be 35-40micrometers.</li> </ul>
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**7. Point No. 48 Page No. 29:** Deleted

**8. Point No. 49 Page No. 30:**

This is to mention that point no. 49 of specification mentioned on page no. 30 of tender document is being replaced with below mentioned points.

Sl No.	Name of item	Amendment/Changes accepted
49 a	Pulmonary Artery catheter with continuous Mixed venous saturation and continuous cardiac output monitoring.:	<p>Flow-directed pulmonary artery catheter enabling monitoring of hemodynamic pressures, continuous measurement of mixed venous oxygen saturation, and continuous measurement of cardiac output.</p> <p>It should be compatible with VIGILANCE II/HemoSphere I Monitor/ Mindray A7/ Datex Avance.</p>
49 b	Sensor for continuous cardiac output from arterial line.	<p>Arterial Pressure Cardiac Output sensor compatible with VIGILEO/EV1000/Hemosphere monitor to provide CO, CI, SV, SVI, SVV, SVR &amp; SVRI on continuous basis when connected with patient arterial pressure line.</p>
49 c	Central venous Oximetry Catheter.	<p>It should have 3 lumens of 15, 18, 18 gauge. 16- 20 cm catheter length. It should have a catheter diameter of 8.5 F.</p>
49 d	Pulmonary Artery Catheter with continuous cardiac output monitoring.	<p>Flow-directed pulmonary artery catheter compatible with VIGILENCE II/ HemoSphere I/Philips Intellivue monitor/mindray enabling monitoring of hemodynamic pressures, continuous measurement of cardiac output. Size 8 F.</p> <p>It should be USFDA approved/BIS certified</p>

49 e	Introducer sheath	<p>Size 8.5 F. Percutaneous Sheath introducer set with detachable hemostasis valve &amp; side port along with straight &amp; “J” tip guide wire for introducing 7.5 F &amp; 8.0 F PA Catheter.</p> <p>It should have sheath diameter of 8.5 F &amp; sheath length of 11 cm. It should be made of radiopaque polyurethane.</p> <p>It should come with 1 catheter contamination shield, 80 cm in length.</p> <p>It should have, One vessel dilator &amp; Four 4” x 4” gauze pads.</p> <p>One disposable scalpel, blade &amp; one 18 ga x 2 ½ “ thin wall needle.</p> <p>Two 5ml syringes , one 18 ga x 2 ½ “ Catheter over 20 ga needle. one 22 ga x 1 ½ “ needle.</p> <p>It should be USFDA approve/CE Certified/BIS certified</p>
49 f	Pulmonary Artery Catheter with Thermodilution.	<p>7.5 F in diameter &amp; 110 cm in length. Flow directed 5 lumen pulmonary artery catheter. 7.5 F in diameter &amp; 110 cm in length with guide wire &amp; single handed insertion device. Should be able to give Cardiac output using Thermo dilution method. Should be able to give PA pressure, PAWP &amp; RA Pressure when transduced. Should have proximal infusion &amp; proximal injectate ports at 31 cm &amp; 30 cm respectively.</p>
49 g	Pulmonary Artery Catheter	<p>. Flow directed 3 lumen pulmonary artery catheter. 7 F in diameter &amp; 110 cm in length with guide wire &amp; single handed insertion device. It is made up of PVC material and Radiopaque dye added for X- ray Visibility. 7 F in diameter &amp; 110 cm in length</p>

Prices of the same is to be quoted in BoQ in part of buyer details along with GST.

**9. Point No 70 Page No. 32:**

This is to mention that point no. 49 of specification mentioned on page no. 30 of tender document is being replaced with below mentioned points:

70 a	Single line Disposable Pressure Transducer.	<p>Single line Disposable Pressure Transducer. One Disposable pressure transducer with flush device &amp; vent stopcock, IV set, 2 three- way stopcocks &amp; (45'' to 55'') &amp; (10'' to 12'') pressure tubings. It should have a flow rate of 3.</p> <p>+/- 1 ml/hr under 300 mm Hg IV bag pressure. Gold-plated connector wires for high-fidelity signal transmission. Operating Pressure Range: -50 to +300 mm Hg. Operating Temperature Range: 15° to 40°C., Sensitivity: 5.0µ V/V/mm Hg +_ 1%, Signal Impedance: 300 +-5% ,Natural Frequency: 40 Hz nominal for a standard kit (45'' to 55'') &amp; (10'' to 12''); &gt; 200 Hz for transducer alone, Flow rate across flush device with IV Snap-Tab 3+-} 1 mL/hr. It should be USFDA Approve/ CE/ BIS certified.</p>
70 b	Double line Disposable Pressure Transducer.	<p>2 Disposable pressure transducer with 2 flush devices &amp; vent stopcocks, trifurcated IV set, 4 three way stopcocks &amp; 2 sets of (45'' to 55'') &amp; (10'' to 12'') pressure tubings. It should have a flow rate of 3</p> <p>+/- 1 ml/hr under 300 mm Hg IV bag pressure. Gold-plated connector wires for high-fidelity signal transmission. Operating Pressure Range: -50 to +300 mm Hg. Operating Temperature Range: 15° to 40°C., Sensitivity: 5.0µ V/V/mm Hg +_ 1%, Signal Impedance: 300 +-5%, Natural Frequency: 40 Hz nominal for a standard kit (45'' to 55'') &amp; (10'' to 12''); &gt; 200 Hz for transducer alone, Flow rate across flush device with IV Snap-Tab 3+-} 1 mL/hr. It should be USFDA approve/CE Certified/BIS certified</p>
70 c	Single Line Disposable Pressure Transducer.	<p>One Disposable pressure transducer with flush device &amp; vent stopcock, IV set, one three-way stopcock &amp; (65'' to &amp;75'') &amp; (10'' to 12'') pressure tubings. It should have a flow rate of 3</p> <p>+/- 1 ml/hr under 300 mm Hg IV bag pressure. Gold-plated connector wires for high-fidelity signal transmission. Operating Pressure Range: -50 to +300 mm Hg. Operating Temperature Range: 15° to 40°C., Sensitivity: 5.0µ V/V/mm Hg +_ 1%, Signal Impedance: 300 +-5%, Natural Frequency: 40 Hz nominal for a standard kit (65'' to &amp;75'') &amp; (10'' to 12''); &gt; 200 Hz for transducer alone, Flow rate across flush device with IV Snap-Tab 3+-} 1 mL/hr. It should be USFDA approve/CE Certified/BIS certified.</p>

70 d	Double Line Disposable Pressure Transducer with inbuilt reservoir & 2 sampling ports for closed blood sampling .	Two Disposable pressure transducer with flush device & vent stopcock, IV set, 2 shutoff valve, 80" to 90" patient pressure tubing along with inbuilt inline 10 to 12 cc reservoir & 2 self-sealing Z-site sampling ports located 10 to 14" and 50" to 60" from patient for closed blood sampling; pole mountable. It should have a flow rate of 3 +/- 1 ml/hr under 300 mm Hg IV bag pressure. Gold-plated connector wires for high-fidelity signal transmission. Operating Pressure Range: -50 to +300 mm Hg. Operating Temperature Range: 15° to 40°C., Sensitivity: 5.0µ V/V/mm Hg +_ 1%, Signal Impedance: 300 +-5% ,Natural Frequency: 40 Hz nominal for a standard kit (80" to 90" & (10 to 14")); > 200 Hz for transducer alone, Flow rate across flush device with IV Snap-Tab 3+-} 1 mL/hr. It should be USFDA approve/CE Certified/BIS certified.
70 e	Single Line Disposable Pressure Transducer.	Single disposable pressure transducer with 3 cc flush device, Design features a straight fluid path across the pressure sensor for easy priming and minimal waveform distortion. Available with a Snap-Tab flush device that can be easily gripped and stretched 360° to quickly and easily flush the system and generate a square-wave test pattern. Fluid-resistant cable connector. Gold-plated connector wires for high-fidelity signal transmission. Operating Pressure Range: -50 to +300 mm Hg. Operating Temperature Range: 15° to 40°C., Sensitivity: 5.0µ V/V/mm Hg +_ 1%, Signal Impedance: 300 +-5% ,Natural Frequency: 40 Hz nominal for a standard kit (48"/12"); > 200 Hz for transducer alone, Flow rate across flush device with IV Snap-Tab 3+-} 1 mL/hr
70 f	NEEDLELESS SHIELDED CANNULA for drawing blood sample from closed blood sampling system.	Needle less shielded blunt cannula providing safety by eliminating needle stick injuries, to be used for drawing blood sample from closed blood sampling system. Attachable with or without Luer lock syringe. It should be USFDA approve/CE Certified/BIS certified.

**10. Pont No. 55 Page No. 31:**

**For:-**

55	Pacing wire	26mm, 1/2 circle taper point, 88 mm straight cutting breakaway needle, 2-0 , 17 mm 3/8 circle, Taper point , with distal breakaway needle. 3-0 26 mm, 1/2 circle taper point, 60 mm straight cutting needle
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Read as: -

55	Pacing wire	26mm, 1/2 circle taper point, 60-90 mm straight cutting breakaway needle, 2-0 , 17 mm half / 3/8 circle, Taper point, with distal breakaway needle. 3-0 26 mm, 1/2 circle taper point, 60-90 mm straight cutting needle.
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**11. Point No. 61 Page No. 31:**

**For: -**

61	ARTIFICIAL HEART VALVE BILEAFLET MITRAL <b>Sizes:</b> 23mm, 25mm, 27mm, 29mm, 31mm, 33mm	Should be Made up of pure Pyrolytic carbon Should have optimal profile height Should have 80-90-degree leaflet opening angle should have flared inlet at inflow Should have wide range of sizes from 23 mm to 33 mm
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**Read as: -**

61	ARTIFICIAL HEART VALVE BILEAFLET MITRAL <b>Sizes:</b> 23mm, 25mm, 27mm, 29mm, 31mm, 33mm	Should have optimal profile height Should have 80-90-degree leaflet opening angle Should have wide range of sizes from 23 mm to 33 mm
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**12. Point No. 63 Page No. 31:**

**For: -**

63	MECHANICAL BILEAFLET AORTIC HEART VALVE <b>Sizes:</b> 19mm, 21mm, 23mm, 25mm, 27mm, 29mm	Should be Made up of pure Pyrolytic carbon Should have optimal profile height Should have 80-90-degree leaflet opening angle should have leaflet guard design should have flared inlet at inflow Should have wide range of sizes from 19 mm to 29 mm
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**Read as: -**

63	MECHANICAL BILEAFLET AORTIC HEART VALVE <b>Sizes:</b> 19mm, 21mm, 23mm, 25mm, 27mm, 29mm	Should have optimal profile height Should have 80-90-degree leaflet opening angle should have leaflet guard design Should have wide range of sizes from 19 mm to 29 mm
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**13. Point No. 65 Page No. 32:**

**For: -**

65	Porcine Bio Prosthetic Heart Valve Aortic and Mitral	Should be Native Stented Porcine Valve Should have T-6 Anti Calcification to reduce calcification Should come in all sizes Should have clinical papers on survival rates for more than 25 years.
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**Read as: -**

65	Porcine/Bovine Bio Prosthetic Heart Valve Aortic and Mitral	Should be native stented Porcine / Bovine bio prosthetic heart valve Mitral/Aortic. Should come in all sizes Should have clinical papers on survival rates for more than 25 years.
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**14. Point No. 73 Page No. 32: Deleted**

**15. Point No. 76 Page No. 33:**

**For: -**

Tricuspid Repair Ring	<ul style="list-style-type: none"><li>• Sterile double packed tricuspid rigid ring with an anterior gap with polyester or PTFE cloth with marking for commissures.</li><li>• Should have an oval shape and opening for AV node.</li><li>• Sizes 26mm, 28mm, 30mm and 32mm.</li></ul>
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**Read as: -**

Sterile double packed tricuspid rigid ring with an anterior gap with polyester OR PTFE cloth with marking for commissures. Sizes 26 mm-32 mm

**16. Point No. 86 Page No. 34:**

**For: -**

Steel wire for sternal closure	No.2, 5 , 6 with cutting/taper point/blunt tip & Circle bby needle- Pack of 4 or 2 in per set
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**Read as: -**

Steel wire for sternal closure	No. 2,5,6 with half circle conventional cutting/ taper point/blunt tip needle ,45-60 cm length. Pack of 4 or 2 in per set.
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