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Dated: 11th November, 2016

CORRIGENDUM

Rate Contract

for

Consumables for Cardio Thoracic and Vascular Surgery

Tender No.	**:**	**Admn/RC/07/2016-AIIMS.JDH**
NIT Issue Date	**:**	**23rd September, 2016**
Last Date of Submission	**:**	**25th October, 2016 at 03:00 PM**
Revised Last date of Submission	**:**	**21st November, 2016 at 03:00 PM**

Modifications for Rate Contract for Radiology Consumables are as under:

S. No.	Tender Ref. No.	Existing Detail	Modifications
1	9	**Item Name:** SWAN GANZ PA CATHETER INTRODUCER KIT SET **Specification:** • Percutaneous Sheath introducer set should have bonded hemostasis valve & side port along with .035 x 45 cm straight & “J” tip guide wire for introducing 7.5 Fr& 8.0 Fr PA Catheter. • It should have sheath diameter of 8.5 F & sheath length of ≈11 cm. It should be made of radiopaque polyurethane & should have a coating of Heparin as well as antimicrobial material (Benzalkonium Chloride) on entire sheath surface. • It should come with 1 catheter contamination shield, ≈80 cm in length. • It should have one 4-waystopcock, one vessel dilator & four 4x 4gauze pads.0ne disposable scalpel, # 11 blade & one 18 ga x 2 ½ thin wall needle.	**Specifications:** • Percutaneous Sheath introducer set should have bonded hemostasis valve & side port along with .035 x 45 cm straight & “J” tip guide wire for introducing 7.5 Fr& 8.0 Fr PA Catheter. • It should have sheath diameter of 8.5 F & sheath length of ≈11 cm. It should be made of radiopaque polyurethane & **should be FDA approved.** • It should come with 1 catheter contamination shield, ≈80 cm in length. • It should have one 4-waystopcock, one vessel dilator & four 4x 4gauze pads.0ne disposable scalpel, # 11 blade & one 18 ga x 2 ½ thin wall needle.
2	10	**Item Name:** SWAN GANZ THERMODILUTION VIP CATHETER	**Specification:**

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S. No.	Tender Ref. No.	Existing Detail	Modifications
		Specification: • Flow directed 5-lumen balloon tipped pulmonary artery catheter. 7.5 Fr in diameter &≈ 110 cm in length • It should have a coating of Heparin as well as antimicrobial material (Benzalkonium Chloride) on entire catheter surface. • Should be able to give Cardiac output using Thermo dilution method • Should be able to give PA pressure, PAWP & RA Pressure when connected to trasducer. • Should have proximal infusion & proximal injectateports at ≈31 cm &≈30 cm respectively. • It should come with one volume-limiting syringe of 1.5cc for balloon inflation	• Flow directed 5-lumen balloon tipped pulmonary artery catheter. 7.5 Fr in diameter &≈ 110 cm in length • **It should have US FDA approved.** • Should be able to give Cardiac output using Thermo dilution method • Should be able to give PA pressure, PAWP & RA Pressure when connected to trasducer. • Should have proximal infusion & proximal injectateports at ≈31 cm &≈30 cm respectively. • It should come with one volume-limiting syringe of 1.5cc for balloon inflation
3	11	**Item Name:** SWAN GANZ PA CATHETER **Specification:** • Flow directed 3 lumen balloon tipped pulmonary artery catheter, 7 Fr in diameter & ≈110 cm in length • Should be able to give PA pressure, PAWP & RA Pressure when connected to transducer. Should have proximal infusion port at 30 cm. Recommended guide wire size 0.89 mm. • It should come with one volume-limiting syringe of 1.5cc for balloon inflation	**Specification:** • Flow directed 3 lumen balloon tipped pulmonary artery catheter, 7 Fr in diameter & ≈110 cm in length • Should be able to give PA pressure, PAWP & RA Pressure when connected to transducer. Should have proximal infusion port at 30 cm. Recommended guide wire size 0.89 mm. • It should come with one volume-limiting syringe of 1.5cc for balloon inflation • **It should be US FDA Approved.**
4	18	**Item Name:** THERMOPLASTIC SUPRA-GLOTTIC AIRWAY DEVICE **Specification:** • Should have soft non inflatable anatomical seal, epiglottis blocker; buccal cavity stabilizer, integrated bite block; integrated gastric channel for passage of nasogastric tube • Size: 1, 1.5,2,3,4,5	**Item to be read as DELETED**
5	46	**Item Name:** SPECIFICATION FOR BIS SENSORS **Specification:** • It should have four sensors element to capture, recognize and discard artifact. • Connector should provide secure click-in connection with push button release	**Specification:** • It should have four sensors element to capture, recognize and discard artifact. • Connector should provide secure click-in connection with push button release • It should include an additional above eye element, which captures critical eye motion data, along with other important physiological signals.

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S. No.	Tender Ref. No.	Existing Detail	Modifications
		• It should include an additional above eye element, which captures critical eye motion data, along with other important physiological signals. • It should have flexible design adjusts to different head sizes • It should have FDA approval • Should be supplied by authorized channel partner from principal company/ manufacture. Electrode	• It should have flexible design adjusts to different head sizes • It should have FDA approval • Should be supplied by authorized channel partner from principal company/ manufacture. Electrode • **It should have US FDA Approved.**
6	47	**Item Name:** NIRS SENSORS **Specification:** ADULT AND PEDIATRIC	**Specification:** ADULT AND PEDIATRIC **It should have US FDA Approved**
7	48	**Item Name:** DISPOSABLE PULSE OXIMETER SENSORS (SP02) **Specification:** • Should be compliant with the equipment intended to continuously estimate and display non-invasively a patient's arterial blood oxygen saturation and pulse rate • Proposed sensors must comply with NellcorTechnology. • Digit sensors should be available in Adult, Pediatric, Neonatal and Infant sizes to accommodate diverse patient sizes, weights and needs. • Seller must have all types of sensors available (e.g., finger, forehead, and ear). Sensor must be available in Adult, Pediatric, Infant and Neonatal Sizes. • Sensor extension cables must be available in 4' and 9' lengths. • The sensors must be compatible with all generations of NellcorOximetry Technology in NellcorOximeters and OEM/Licensee Multi-para meter systems with all generation of Nellcor technology. • The sensor shall resist inadvertent displacement. • The sensor shall resist interference from ambient light. • The sensors shall not be adversely affected by fluid spills or common disinfectantsolutions.	**Specification:** • Should be compliant with the equipment intended to continuously estimate and display non-invasively a patient's arterial blood oxygen saturation and pulse rate • Proposed sensors must comply with NellcorTechnology. • Digit sensors should be available in Adult, Pediatric, Neonatal and Infant sizes to accommodate diverse patient sizes, weights and needs. • Seller must have all types of sensors available (e.g., finger, forehead, and ear). Sensor must be available in Adult, Pediatric, Infant and Neonatal Sizes. • Sensor extension cables must be available in 4' and 9' lengths. • The sensors must be compatible with all generations of NellcorOximetry Technology in NellcorOximeters and OEM/Licensee Multi-para meter systems with all generation of Nellcor technology. • The sensor shall resist inadvertent displacement. • The sensor shall resist interference from ambient light. • The sensors shall not be adversely affected by fluid spills or common disinfectantsolutions. • **It should have US FDA approved.**
8	53	**Item Name:** AORTIC PUNCH **Specification:** Should have Sharp, dual cutting edge for clean, precise removal of aortic tissue	**Specification:** Should have Sharp, dual cutting edge for clean, precise removal of aortic tissue • **should have a conical tip or round / elliptical tip for easy insertion by straight or button hole technique.**

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		• should have a conical tip for easy insertion by straight or button-hole technique • Punch should be available with tapered cutting blade to increase visibility. • Should be available in all functional sizes • Should have long and short handle configuration	• Punch should be available with tapered cutting blade to increase visibility. • Should be available in all functional sizes • Should have long and short handle configuration **• It should have US FDA approved.**
9	54	**Item Name:** Coronary artery retraction clips Sizes 3mm and 5mm **Specification:** • Should be designed to improve exposure to a coronary anastomosis site. Should be able to small prongs and gently hold tissues away from the vessel to improve vision.	**Specification:** • Should be designed to improve exposure to a coronary anastomosis site. Should be able to small prongs and gently hold tissues away from the vessel to improve vision. **• It should have US FDA approved.**
10	55	**Item Name:** Temporary pigtail pacing wire **Specification:** • Should include unipolar atrial and ventricular pacing, pediatric unipolar pacing, and the bipolar pacing lead.	**Specification:** • Should include unipolar atrial and ventricular pacing, pediatric unipolar pacing, and the bipolar pacing lead. **• It should have US FDA approved.**
11	56	**Item Name:** Tissue Stabilizer for beating heart **Specification:** • Should be a low profile tissue stabilizer with auto spread feature of pods.	**Specification:** • Should be a low profile tissue stabilizer with auto spread feature of pods. **• It should have US FDA approved.**
12	57	**Item Name:** Heart positioner for beating heart **Specification:** • Should be a low profile positioner for apex and off apex position use/ to lift the heart.	**Specification:** • Should be a low profile positioner for apex and off apex position use/ to lift the heart. **• It should have US FDA approved.**
13	58	**Item Name:** Tissue Stabilizer for Minimally invasive beating heart surgery. **Specification:** • Should be stabilizer to be used via thoracotomy with detachable shaft and should have fully rotating pods.	**Specification:** • Should be stabilizer to be used via thoracotomy with detachable shaft and should have fully rotating pods. **• It should have US FDA approved.**
14	59	**Item Name:** Heart positioner for Minimally invasive beating heart surgery **Specification:** Should be a positioner with detachable shaft for MICS via thoracotomy.	**Specification:** Should be a positioner with detachable shaft for MICS via thoracotomy. **• It should have US FDA approved.**
15	60	**Item Name:**	**Specification:**

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S. No.	Tender Ref. No.	Existing Detail	Modifications
		Mist Blower **Specification:** • Should have specialized nozzle utilizing a micro orifice for fluid delivery and a separate orifice for gas delivery. Should have the malleable shaft and on/off control on the hand piece.	• Should have specialized nozzle utilizing a micro orifice for fluid delivery and a separate orifice for gas delivery. Should have the malleable shaft and on/off control on the hand piece. • **It should have US FDA approved.**
16	61	**Item Name:** Arteriotomyshunts(Intra Coronary Shunts) **Specification:** • Sizes 1.0,1.25,1.5,1.75,2.0,2,5,2.5, 2.75 & 3.0mm. • Should be beveled tip. • Should have fully transparent body.	**Specification:** • Sizes 1.0,1.25,1.5,1.75,2.0,2,5,2.5, 2.75 & 3.0mm. • Should be beveled tip. • Should have fully transparent body. • **It should have US FDA approved.**
17	62	**Item Name:** ACT Cartridges **Specification:** a. Should have double cell measurement to increase accuracy of results, b. Should use liqiuid kaolin activator for real time efficient clot detection, c. Should allow room temperature storage	**Specification:** a. Should have double cell measurement to increase accuracy of results, b. Should use liqiuid kaolin activator for real time efficient clot detection, c. Should allow room temperature storage • **It should have US FDA approved.**
18	68	**Item Name:** LV Vent: **Specification:** • Left ventricular vent should consist of round tipped dual lumen tube with lateral eyes, suture collars & proximal funnel connectors used for emptying the Left Ventricle for clearer view during surgery. All sizes.	**Specification:** • Left ventricular vent should consist of round tipped dual lumen tube with lateral eyes, suture collars & proximal funnel connectors used for emptying the Left Ventricle for clearer view during surgery. All sizes. • **It should be US FDA approved.**
19	69	**Item Name:** AntegradeOstialCardioplegia Cannula - All Size **Specification:** • Antegrade-cardioplegia cannula should be made of soft 100% silicone conduit with distal bulbous end & should have luer lock connector at the proximal end for administration of cardioplegia solution into the coronary ostia. Sizes: 3.5, 4, 4.5, 5, 5.5, 6 mm.	**Specification:** • Antegrade-cardioplegia cannula should be made of soft 100% silicone conduit with distal bulbous end & should have luer lock connector at the proximal end for administration of cardioplegia solution into the coronary ostia. Sizes: 3.5, 4, 4.5, 5, 5.5, 6 mm **It should be US FDA approved.**
20	70	**Item Name:** Cardioplegia Cannula Size Infant: **Specification:** • Cardioplegia cannula should be made of soft 100% silicone & should be tapered conduit with distal open tip having adjacent lateral eyes, followed by a flange for secure	**Specification:** • Cardioplegia cannula should be made of soft 100% silicone & should be tapered conduit with distal open tip having adjacent lateral eyes, followed by a flange for secure positioning. It should have proximal luer lock & a SS needle with hub. Size: Infant. **It should be US FDA approved.**

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S. No.	Tender Ref. No.	Existing Detail	Modifications
		positioning. It should have proximal luer lock & a SS needle with hub. Size: Infant.	
21	71	**Item Name:** Arterial cannula for arch cannulation Sizes 20FR -24 Fr. **Specification:** • Should have elongated one piece wire wound body with radiopaque suture ring and dilator with depth markings.	**Specification:** • Should have elongated one piece wire wound body with radiopaque suture ring and dilator with depth markings. **It should be US FDA approved.**
22	72	**Item Name:** Axillary artery one piece cannula with central arterial pressure measurement **Specification:** Sizes 18 Fr.-24Fr.Should have elongated one piece wire wound body with radiopaque suture ring and dilator with depth markings. Should have integrated pressure monitoring port at tip	**Specification:** Sizes 18 Fr.-24Fr.Should have elongated one piece wire wound body with radiopaque suture ring and dilator with depth markings. Should have integrated pressure monitoring port at tip **It should be US FDA approved.**
23	73	**Item Name:** One piece Pediatric Aortic cannula Size 6FR-16 Fr Vented **Specification:** Should be beveled with thin wall tips and should be elongated one piece.	**Specification:** Should be beveled with thin wall tips and should be elongated one piece. **It should be US FDA approved.**
24	74	**Item Name:** Straight Tip Arch cannula Sizes 8Fr-24 Fr vented and Non vented; Pediatric and Adult **Specification:** • Should be beveled thin wall tips attached to tapered cannula bodies. Should be available in pediatric and adult sizes.	**Specification:** • Should be beveled thin wall tips attached to tapered cannula bodies. Should be available in pediatric and adult sizes. **It should be US FDA approved.**
25	75	**Item Name:** Angled tip Arterial cannula Sized 8 Fr -24 Fr **Specification:** • Should be beveled thin wall tips attached to tapered cannula bodies. Should have kink resistant wire wound bodies.	**Specification:** • Should be beveled thin wall tips attached to tapered cannula bodies. Should have kink resistant wire wound bodies. **It should be US FDA approved.**
26	76	**Item Name:** Arterial cannula angled with diffused flow tip Sizes 18 Fr-24Fr **Specification:** • Should be one piece wire wound body with integrated flutes for diffused flow.	**Specification:** • Should be one piece wire wound body with integrated flutes for diffused flow. **It should be US FDA approved.**
27	77	**Item Name:** Femoral one piece Arterial and venous cannula kit	**Specification:** • Sizes 8-21 Fr. arterial and 8-29 Fr. Venous cannula • Should be one piece wire wound body.

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S. No.	Tender Ref. No.	Existing Detail	Modifications
		Specification: • Sizes 8-21 Fr. arterial and 8-29 Fr. Venous cannula • Should be one piece wire wound body.	**It should be US FDA approved.**
28	78	**Item Name:** Femoral Multistage venous cannula **Specification:** • Sizes: 29/29/29 Fr and 29/46/37 Fr • Should be one piece wire wound multiple side holes body with percutaneous kit.	**Specification:** • Sizes: 29/29/29 Fr and 29/46/37 Fr • Should be one piece wire wound multiple side holes body with percutaneous kit. **It should be US FDA approved.**
29	79	**Item Name:** Standard insertion kit for femoral cannulation **Specification:** a. Kit for femoral cannulation should contain 12-14 Fr, Scalpel # 11 blade, Introduce needle 18 ga, vessel dilator 8-10 Fr, vessel dilator Guidewire .038 in X 180 cm, catheter tip , Syringe	**Specification:** a. Kit for femoral cannulation should contain 12-14 Fr, Scalpel # 11 blade, Introduce needle 18 ga, vessel dilator 8-10 Fr, vessel dilator Guidewire .038 in X 180 cm, catheter tip , Syringe **It should be US FDA approved.**
30	80	**Item Name:** Carpentier Bi-caval femoral venous cannula **Specification:** • Sizes : 24/29 Fr, 30/33Fr • Should have wire wound kink resistant two stage design.	**Specification:** • Sizes : 24/29 Fr, 30/33Fr • Should have wire wound kink resistant two stage design. **It should be US FDA approved.**
31	81	**Item Name:** Single stage venous cannula with Metal tip Sizes 12-31 Fr **Specification:** • Should have kink resistant wire wound taper body with beveled metal tip.	**Specification:** • Should have kink resistant wire wound taper body with beveled metal tip. **It should be US FDA approved.**
32	82	**Item Name:** Single stage Venous cannula with right angle Sizes 12-40 Fr **Specification:** • Should have kink resistant wire wound taper body with tapered multiport tips. be right angled with plastic tip.	**Specification:** • Should have kink resistant wire wound taper body with tapered multiport tips. be right angled with plastic tip. **It should be US FDA approved.**
33	83	**Item Name:** Single stage straight venous cannula malleable Sizes 12-40 Fr **Specification:** Should have kink resistant malleable wire wound taper body with tapered multiport tips.	**Specification:** Should have kink resistant malleable wire wound taper body with tapered multiport tips. **It should be US FDA approved.**
34	84	**Item Name:**	**Specification:** • Should be two-stage cannula with oval body in various sizes. Should be two-stage cannula with

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S. No.	Tender Ref. No.	Existing Detail	Modifications
		Double-stage venous cannula round and oval shape Sizes 28/36,36/46,32/46, 36/51, 32/40, 36/46 Fr. **Specification:** • Should be two-stage cannula with oval body in various sizes. Should be two-stage cannula with round body in various sizes. Should have cannula body with thin walled with depth markings.	round body in various sizes. Should have cannula body with thin walled with depth markings. **It should be US FDA approved.**
35	85	**Item Name:** Three stage venous cannula Sizes 29/29/29 Fr 29/46/37 Fr **Specification:** Should be three stage venous cannula for VacuumAssisted Venous Drainage(VAVD)/Kinetic Assisted Venous Drainage(KAVD)	**Specification:** Should be three stage venous cannula for Vacuum Assisted Venous Drainage(VAVD)/Kinetic Assisted Venous Drainage(KAVD) **It should be US FDA approved.**
36	86	**Item Name:** Multiple Stage Venous cannula Sizes 23 Fr and 29 Fr **Specification:** Should have polyurethane wire wound body with radiopaque markers and multiple holes at distal end.	**Specification:** Should have polyurethane wire wound body with radiopaque markers and multiple holes at distal end. **It should be US FDA approved.**
37	87	**Item Name:** Aortic root cannula Sizes 4 Fr-11 Fr **Specification:** • Should have radiopaque tips attached to clear PVC bodies. Additional features: aortic root pressure monitoring and left heart venting. Can be used to aspirate air emboli as well administer cardioplegia.	**Specification:** • Should have radiopaque tips attached to clear PVC bodies. Additional features: aortic root pressure monitoring and left heart venting. Can be used to aspirate air emboli as well administer cardioplegia. **It should be US FDA approved.**
38	88	**Item Name:** Aortic root cannula with Vent line Sizes 5 Fr-11 Fr **Specification:** • Should have radiopaque tips attached to clear bodies with separate vent line.	**Specification:** • Should have radiopaque tips attached to clear bodies with separate vent line. **It should be US FDA approved.**
39	89	**Item Name:** Aortic root cannula pediatric Neonatal Sizes 4 Fr **Specification:** • Should be able to aspirate air from Aorta, Should have radiopaque tip and standard 50.5 in length or a shortened 2.5 in.	**Specification:** • Should be able to aspirate air from Aorta, Should have radiopaque tip and standard 50.5 in length or a shortened 2.5 in. **It should be US FDA approved.**
40	90	**Item Name:**	**Specification:**

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S. No.	Tender Ref. No.	Existing Detail	Modifications
		Cardiopleiga needles: Neonatal, Pediatric and Adult Sizes. 5Fr and 8 Fr **Specification:** • Should be able to aspirate air from Aorta, Should have radiopaque tip and standard 50.5 in length or a shortened 2.5 in.	• Should have stainless steel tip with plastic depth stop, Needle should be attached to Flexible PVC tubing which should include a drape clamp and female luer. **It should be US FDA approved.**
41	91	**Item Name:** Silicon Ostial cannula for continuous perfusion Sizes 15 Fr,17Fr and 20 Fr **Specification:** • Should have a silicon body with soft bulb shaped tips, should have a female luer connection site	**Specification:** • Should have a silicon body with soft bulb shaped tips, should have a female luer connection site **It should be US FDA approved.**
42	92	**Item Name:** Ostial perfusion cannula with basket tip and soft convex tip Sizes 10 Fr, 12 Fr and 14 Fr. **Specification:** • Should have flanged, radiopaque basket tips/soft tips attached to malleable stainless steel shafts.	**Specification:** • Should have flanged, radiopaque basket tips/soft tips attached to malleable stainless steel shafts. **It should be US FDA approved.**
43	93	**Item Name:** Minimally invasive Aortic root cannula with length more than 30 cm **Specification:** • Should have more than 30 cm long body to allow insertion during MICS	**Specification:** • Should have more than 30 cm long body to allow insertion during MICS **It should be US FDA approved.**
44	94	**Item Name:** Minimally invasive retrograde cardioplegia cannula with deflecting tip Sizes 13 and 15 Fr **Specification:** • Should have tip deflecting models for sinus placement through thoracotomy should be able to allow minimum 10mm sweep. Should be auto/ manual inflatable.	**Specification:** • Should have tip deflecting models for sinus placement through thoracotomy should be able to allow minimum 10mm sweep. Should be auto/ manual inflatable. **It should be US FDA approved.**
45	95	**Item Name:** Retrograde cardioplegia cannula with Auto inflate Sizes 13 Fr and 15 Fr **Specification:** • Should have silicon/ PVC bodies with auto inflatable cuff and pressure monitoring lines; should have multiport tip/ integral stopcock.	**Specification:** • Should have silicon/ PVC bodies with auto inflatable cuff and pressure monitoring lines; should have multiport tip/ integral stopcock. **It should be US FDA approved.**
46	96	**Item Name:** Multiple perfusion set **Specification:**	**Specification:** • Should have silicon/ PVC bodies with auto inflatable cuff and pressure monitoring lines; should have multiport tip/ integral stopcock.

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S. No.	Tender Ref. No.	Existing Detail	Modifications
		• Should have silicon/ PVC bodies with auto inflatable cuff and pressure monitoring lines; should have multiport tip/ integral stopcock.	**It should be US FDA approved.**
47	97	**Item Name:** Distal perfusion kit **Specification:** Should be able to perform simultaneous perfusion of Aortic root and upto 3 or more vein grafts.	**Specification:** Should be able to perform simultaneous perfusion of Aortic root and upto 3 or more vein grafts. **It should be US FDA approved.**
48	98	**Item Name:** Left Heart Vent Catheters Sizes 10 Fr,13Fr,15Fr,16Fr,18Fr,20Fr,24Fr **Specification:** Should be of PVC or silicon, could be used for direct and indirect venting, should have perforated tip, malleable bodies with depth mark. Should have a choice of either PVC or Silicone along with straight body with depth marking. All ventsshould terminate with a vented or non vented ¼ in connector.	**Specification:** Should be of PVC or silicon, could be used for direct and indirect venting, should have perforated tip, malleable bodies with depth mark. Should have a choice of either PVC or Silicone along with straight body with depth marking. All ventsshould terminate with a vented or non vented ¼ in connector. **It should be US FDA approved.**
49	99	**Item Name:** Pericardial Sumps Sizes 20 Fr **Specification:** Should feature a fluted tip, should be encased in a stainless steel spring and should have weight at the end.	**Specification:** Should feature a fluted tip, should be encased in a stainless steel spring and should have weight at the end. **It should be US FDA approved.**
50	100	**Item Name:** Intra-cardiac sump Size 20 Fr **Specification:** • Should feature a perforated pool tip to maximize suction and minimize tissue trauma. The tip design should be ideal for atraumatic suction within the heart chambers.	**Specification:** • Should feature a perforated pool tip to maximize suction and minimize tissue trauma. The tip design should be ideal for atraumatic suction within the heart chambers. **It should be US FDA approved.**
51	101	**Item Name:** Suction Tube Sizes 6 Fr,10Fr and 20 Fr **Specification:** Should have variety of cardiac suction tubes, intracardiac suction tubes & rigid suction tubes.	**Specification:** Should have variety of cardiac suction tubes, intracardiac suction tubes & rigid suction tubes. **It should be US FDA approved.**
52	102	**Item Name:** Micro Suction tubes Sizes 9 Fr **Specification:** • Should have a vacuum control port, malleable shaft, should equipped with a length of	**Specification:** • Should have a vacuum control port, malleable shaft, should equipped with a length of tubing and clamp terminating with a ¼ in (0.64cm) connector. **It should be US FDA approved.**

S. No.	Tender Ref. No.	Existing Detail	Modifications
		tubing and clamp terminating with a ¼ in (0.64cm) connector.	
53	103	**Item Name:** Macro Rigid suction tubes Sizes 20 Fr **Specification:** • Should have tip made up of stainless steel, should have fluted pool tip to maximize suction and minimize tissue trauma, should offer gentle suction.	**Specification:** • Should have tip made up of stainless steel, should have fluted pool tip to maximize suction and minimize tissue trauma, should offer gentle suction. **It should be US FDA approved.**
54	104	**Item Name:** PA vent cannula **Specification:** Should have a soft, pliable tip with female luer end; should have movable depth marker and an introducer needle should be included.	**Specification:** Should have a soft, pliable tip with female luer end; should have movable depth marker and an introducer needle should be included. **It should be US FDA approved.**
55	105	**Item Name:** Tourniquet Sets Sizes 12 Fr, 16 Fr and 19 Fr. **Specification:** Should have color coded tubes with varying lengths for adults and pediatric, should have wire snares included with the tube set.	**Specification:** Should have color coded tubes with varying lengths for adults and pediatric, should have wire snares included with the tube set. **It should be US FDA approved.**
56	106	**Item Name:** Vessel cannula with and without valve sizes 2mm,3mm, 4mm **Specification:** Should have clear and radiopaque bodies. These should terminate with a female luer. Should have tips in various sizes and shapes.	**Specification:** Should have clear and radiopaque bodies. These should terminate with a female luer. Should have tips in various sizes and shapes. **It should be US FDA approved.**
57	107	**Item Name:** Arteriotomy Cannula Sizes 2mm, 3mm, 4mm, 5mm, 6mm **Specification:** • Should have polyurethane tube with a bulb shaped tip connected to winged female luer.	**Specification:** • Should have polyurethane tube with a bulb shaped tip connected to winged female luer. **It should be US FDA approved.**
58	108	**Item Name:** Rapid priming set Length 35cm and 40cm **Specification:** These should facilitate the transfer of fluid during the priming of the circuit. Should have large bore spikes attached to flexible tubing with a clamp. Should terminate with either an open end tube or a male luer.	**Specification:** These should facilitate the transfer of fluid during the priming of the circuit. Should have large bore spikes attached to flexible tubing with a clamp. Should terminate with either an open end tube or a male luer. **It should be US FDA approved.**
59	109	**Item Name:** Rapid Priming ”Y” Set Length around 1 m **Specification:**	**Specification:** These should facilitate the transfer of fluid during the priming of the circuit. Should have large bore spikes attached to flexible tubing

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S. No.	Tender Ref. No.	Existing Detail	Modifications
		These should facilitate the transfer of fluid during the priming of the circuit. Should have large bore spikes attached to flexible tubing with a clamp. Should attach to a " Y" adapter with a length of tubing and another clamp.	with a clamp. Should attach to a " Y" adapter with a length of tubing and another clamp. **It should be US FDA approved.**
60	110	**Item Name:** SPECIFICATION FOR ADULT OXYGENATOR **Specification:** • Priming volume should be less than 300 ml. • Blood flow range should be 0-7lts/min. • Oxygen transfer should be atleast 400ml/min. • Heat exchange efficiency should not be less than 0.50. • Housing material should be of polycarbonate. • Surface area of the fibers should be from 1.8m 2 to 2.4m 2 • Heat exchanger should be made of stainless steel and surface area should be approx. 20cm 2 Blood inlet port (from pump) 3/8 Blood outlet port 3/8 Cardioplegia port 1/4 GasInlet port 1/4 Gas Outlet port 1/4 Water Ports ½ Maximum Pressure Blood inlet 1000 mmHg water Inlet 42 PSI • Blood storage capacity of hard shell reservoir should be approx. 4000ml • Minimum operating volume of reservoir should be 200ml. • Hard shell reservoir should have cardiotomy filter and de-foaming part • Hard-shell reservoir should have venous filter with pore size 452mm • The hard-shell reservoir should have Venous blood inlet port ½ Blood outlet port (to pump) ⅜ Suction ports (six) ¼ Water Inlet 42 PSI Vertical port to CR Filter ¼ Quick Prime port ¼ Auxiliary port ¼-⅜ • Sustainable negative pressure should be 15010mmHg	**Specification:** • Priming volume should be less than 300 ml. • Blood flow range should be 0-7lts/min. • Oxygen transfer should be atleast 400ml/min. • Heat exchange efficiency should not be less than 0.50. • Housing material should be of polycarbonate. • Surface area of the fibers should be from 1.8m 2 to 2.4m 2 • Heat exchanger should be made of stainless steel and surface area should be approx. 20cm 2 Blood inlet port (from pump) 3/8 Blood outlet port 3/8 Cardioplegia port 1/4 GasInlet port 1/4 Gas Outlet port 1/4 Water Ports ½ Maximum Pressure Blood inlet 1000 mmHg water Inlet 42 PSI • Blood storage capacity of hard shell reservoir should be approx. 4000ml • Minimum operating volume of reservoir should be 200ml. • Hard shell reservoir should have cardiotomy filter and de-foaming part • Hard-shell reservoir should have venous filter with pore size 452mm • The hard-shell reservoir should have Venous blood inlet port ½ Blood outlet port (to pump) ⅜ Suction ports (six) ¼ Water Inlet 42 PSI Vertical port to CR Filter ¼ Quick Prime port ¼ Auxiliary port ¼-⅜ • Sustainable negative pressure should be 15010mmHg **It should be US FDA approved.**
61	111	**Item Name:** SPEICIFICATION FOR PEDIATRIC OXYGENATOR **Specification:**	**Specification:** · Priming volume should beless than 150ml. • Blood flow range should be 0.40.01ltrs/min. • Oxygen transfer should not be less than 250ml/min.

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S. No.	Tender Ref. No.	Existing Detail	Modifications
		· Priming volume should beless than 150ml. • Blood flow range should be 0.40.01ltrs/min. • Oxygen transfer should not be less than 250ml/min. • Pressure drop should be least-up to 100mmHg or less. • Heat exchange efficiency should not be less than 0.65. • Housing material should be of polycarbonate. • Surface area of the fibers should be approx 1.0m 2 . • Heat exchanger should be made of stainless steel and surface area should be approx 1300cm 2 . Blood inlet port 3/8 Blood outlet Port 3/8 Cardioplegia port 1/4 Gas Inlet Port 1/4 Gas Outlet port 1/4 Water Port 1/2 Maximum Pressure Blood inlet 1000mmHg, Water Inlet 42 PSI • Blood Storage capacity of hard shell reservoir should be max 3000ml. • Minimum operative volume of hard shell reservoir should be 100ml. • Hard-shell reservoir should have cardiotomy filter and defoaming part. • Hard-shell reservoir should have venous filter with pore size should be 20mm • The hard-shell reservoir should have • Venous blood inlet port 3/8 rotatable • Blood outlet port (to pump) 3/8 • Suction port(six) ¼ • Vertical port to CR filter 3/8 • Quick prime port ¼ • Auxiliary port 3/8 Water Inlet 42 PSI	• Pressure drop should be least-up to 100mmHg or less. • Heat exchange efficiency should not be less than 0.65. • Housing material should be of polycarbonate. • Surface area of the fibers should be approx 1.0m 2 . • Heat exchanger should be made of stainless steel and surface area should be approx 1300cm 2 . Blood inlet port 3/8 Blood outlet Port 3/8 Cardioplegia port 1/4 Gas Inlet Port 1/4 Gas Outlet port 1/4 Water Port 1/2 Maximum Pressure Blood inlet 1000mmHg, Water Inlet 42 PSI • Blood Storage capacity of hard shell reservoir should be max 3000ml. • Minimum operative volume of hard shell reservoir should be 100ml. • Hard-shell reservoir should have cardiotomy filter and defoaming part. • Hard-shell reservoir should have venous filter with pore size should be 20mm • The hard-shell reservoir should have • Venous blood inlet port 3/8 rotatable • Blood outlet port (to pump) 3/8 • Suction port(six) ¼ • Vertical port to CR filter 3/8 • Quick prime port ¼ • Auxiliary port 3/8 Water Inlet 42 PSI **It should be US FDA approved.**
62	112	**Item Name:** SPECIFICATION FOR NEONATAL OXYGENATOR **Specification:** • Blood flow range should be 0.1 – 2 liters/min. • Priming Volumes should be around 40 ml. • Oxygen transfer should be minimum 100 ml/min. • Pressure drop should be least up to 100mmHg or less. • Heat exchange efficiency should not be less than 0.65. • Housing material should be of polycarbonate. • Surface area of the fibers should be ≈0.5m 2	**Specification:** • Blood flow range should be 0.1 – 2 liters/min. • Priming Volumes should be around 40 ml. • Oxygen transfer should be minimum 100 ml/min. • Pressure drop should be least up to 100mmHg or less. • Heat exchange efficiency should not be less than 0.65. • Housing material should be of polycarbonate. • Surface area of the fibers should be ≈0.5m 2 and material should be micro porous polypropylene. • Heat exchanger should be made of stainless steel and surface area should be approx 0.035m 2 . • Blood inlet port (from pump) ¼

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S. No.	Tender Ref. No.	Existing Detail	Modifications
		and material should be micro porous polypropylene. • Heat exchanger should be made of stainless steel and surface area should be approx 0.035m 2 . • Blood inlet port (from pump) ¼ Blood outlet port ¼ Luer port (for recirculation or blood cardioplegia) one luer lock on blood outlet Gas inlet port ¼ Gas outlet port 5/16 Water ports ½ Maximum pressure Blood inlet 1000mmHg • Blood storage capacity of hard shell reservoir should be 1000ml • Minimum operating volume of hard-shell reservoir should be 15ml • Hard-shell reservoir should have cardiotomy filter and defoamer • The hard-shell should have • Venous blood inlet port ¼ • Blood output port (to pump) ¼ • Suction port (five) 3/16 • Quick prime port ¼ • Vent port ¼ • Auxiliary port ¼-3/8 Maximum sustainable negative pressure in reservoir -150mmHg Water inlet 2Kgf/cm 2	Blood outlet port ¼ Luer port (for recirculation or blood cardioplegia) one luer lock on blood outlet Gas inlet port ¼ Gas outlet port 5/16 Water ports ½ Maximum pressure Blood inlet 1000mmHg • Blood storage capacity of hard shell reservoir should be 1000ml • Minimum operating volume of hard-shell reservoir should be 15ml • Hard-shell reservoir should have cardiotomy filter and defoamer • The hard-shell should have • Venous blood inlet port ¼ • Blood output port (to pump) ¼ • Suction port (five) 3/16 • Quick prime port ¼ • Vent port ¼ • Auxiliary port ¼-3/8 Maximum sustainable negative pressure in reservoir -150mmHg Water inlet 2Kgf/cm 2 **It should be US FDA approved.**
63	113	**Item Name:** SPECIFICATIONS FOR PEDIATRIC ARTERIAL FILTER WITH BYPASS LOOP **Specification:** The Arterial Filter should be for pediatric use. Priming volume should not be more than 90ml Filter pore size should be 30- 40 micron. The outlet and inlet blood posts should be 3/8 or ¼". The filter should allow maximum blood flow rate of 5.0L/min. The filter should be provided with a bypass loop at the inlet and outlet port.	**Specification:** The Arterial Filter should be for pediatric use. Priming volume should not be more than 90ml Filter pore size should be 30- 40 micron. The outlet and inlet blood posts should be 3/8 or ¼". **The filter should allow maximum blood flow rate of 4.0 to 5.0 L / min** The filter should be provided with a bypass loop at the inlet and outlet port.
64	114	**Item Name:** SPECIFICATIONS FOR CARDIOPLEGIA HEAT EXCHANGER(BCD) **Specification:** It should have priming volume less than 50 ml. Blood flow rate should be between 0-600 ml/min Filter screen should be around 100 um.	**Specification:** It should have priming volume less than 50 ml. Blood flow rate should be between 0-600 ml/min Filter screen should be around 100 um. Inlet connection should be ¼and outlet connection should be 3/16. Heat exchange surface area should be ≈.20m 2. Heat exchange should be of stainless steel corrugated/ convoluted pipes.

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S. No.	Tender Ref. No.	Existing Detail	Modifications
		Inlet connection should be ¼and outlet connection should be 3/16. Heat exchange surface area should be ≈.20m 2. Heat exchange should be of stainless steel corrugated/ convoluted pipes. Bubble trap should be integrated for highly efficient de-bubbling Integrated by pass manifold for easy de-bubbling Exchangeable water in /water out Blood flow path bottom up It should have a Stopcock Prime/ Perfusion for easy priming. It should have tip in the surgeon pack so that it can be connected to cardioplegia cannula. It should be available both in 4:1 and 1:4 configurations.	Bubble trap should be integrated for highly efficient de-bubbling Integrated by pass manifold for easy de-bubbling Exchangeable water in /water out Blood flow path bottom up It should have a Stopcock Prime/ Perfusion for easy priming. It should have tip in the surgeon pack so that it can be connected to cardioplegia cannula. It should be available both in 4:1 and 1:4 configurations. **It should be US FDA approved.**
65	119	**Item Name:** EXTRA CORPOREAL MEMBRANE OXYGENATOR (NEONATAL) **Specification:** • ECMO should have a validation for 14 days and should be phthalate free (NO DOP). • Membrane used should be of polymethyl pentene fibers. • Priming volume should be 100 ml. • Should have contact surface area ≈0.70 square meters. • Should cater for blood flow from 0.2 to 1.5 L/min. • Heat exchanger surface area should be ≈0.4 square meter. • Heat Exchanger performance factor should be of 0.77 (1.5 liter /min). • Oxygenator and tubing should have coating of Phosphorylcholine. • Inlet and outlet connector preferred is 1/4 (6.35 mm).	**Specification:** • ECMO should have a validation for 14 days and should be phthalate free (NO DOP). • Membrane used should be of polymethyl pentene fibers. • Priming volume should be 100 ml. • Should have contact surface area ≈0.70 square meters. • Should cater for blood flow from 0.2 to 1.5 L/min. • Heat exchanger surface area should be ≈0.4 square meter. • Heat Exchanger performance factor should be of 0.77 (1.5 liter /min). • Oxygenator and tubing should have coating of Phosphorylcholine. • Inlet and outlet connector preferred is 1/4 (6.35 mm). **It should be US FDA approved.**
66	120	**Item Name:** EXTRA CORPOREAL MEMBRANE OXYGENATOR (PAEDIATRIC) **Specification:** ECMO should have a validation for 14 days and should be phthalate free (NO DOP). • Membrane used should be of polymethylpentene fibers. • Should have priming volume 200 ml. • Should have contact surface area of around1.4 square meters.	**Specification:** ECMO should have a validation for 14 days and should be phthalate free (NO DOP). • Membrane used should be of polymethylpentene fibers. • Should have priming volume 200 ml. • Should have contact surface area of around1.4 square meters. • Should cater for blood flow from 0.3 to 4 liter /min. • Heat exchanger should have surface area of ≈0.8 square meter.

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S. No.	Tender Ref. No.	Existing Detail	Modifications
		• Should cater for blood flow from 0.3 to 4 liter /min. • Heat exchanger should have surface area of ≈0.8 square meter. • Heat exchanger performance factor should be of ≈0.6 (@ 4 liter /min). • Oxygenator and tubing should have coating of Phosphorylcholine(PC). • Inlet and outlet connections preferred is 3/8(9.53 mm)	• Heat exchanger performance factor should be of ≈0.6 (@ 4 liter /min). • Oxygenator and tubing should have coating of Phosphorylcholine(PC). • Inlet and outlet connections preferred is 3/8(9.53 mm) **It should be US FDA approved.**
67	121	**Item Name:** EXTRA CORPOREAL MEMBRANE OXYGENATOR (ADULT) **Specification:** ECMO should have a validation for 14 days and should be phthalate free (NO DOP). • Membrane used should be of polymethylpentene fibers. • Should have priming volume of≈250ml. • Should have contact surface area of 1.7-1.9 square meters. • Should cater for blood flow from 0.4 to 7 liters/ min. • Heat exchanger should have surface area of ≈0.8square meter. • Heat exchanger performance factor should be ≈0.6 (@ 4 liters /min). • Oxygenator and tubing should have coating of Phosphorylcholine.(PC) • Inlet and outlet connections preferred is 3/8 (9.53 mm)	**Specification:** ECMO should have a validation for 14 days and should be phthalate free (NO DOP). • Membrane used should be of polymethylpentene fibers. • Should have priming volume of≈250ml. • Should have contact surface area of 1.7-1.9 square meters. • Should cater for blood flow from 0.4 to 7 liters/ min. • Heat exchanger should have surface area of ≈0.8square meter. • Heat exchanger performance factor should be ≈0.6 (@ 4 liters /min). • Oxygenator and tubing should have coating of Phosphorylcholine.(PC) • Inlet and outlet connections preferred is 3/8 (9.53 mm) **It should be US FDA approved.**
68	122	**Item Name:** SPECIFICATION FOR ADULT OXYGENATOR (Integrated with arterial filter & heat exchanger) **Specification:** Oxygenator should have integrated arterial filter with cardiotomy/ venous reservoir. • Should have integrated arterial filter with self venting technology. • Heat exchanger surface area should be no more than 0.2m 2 . • Venous filter should be 50micro meter. • Priming volume should not be more than 300ml. • Blood flow range should be 0.5 to 7 LPM. • Heat exchange efficiency should not be less than 0.50 at max flow. • pressure drop should be minimum, up to 110	**Specification:** Oxygenator should have integrated arterial filter with cardiotomy/ venous reservoir. • Should have integrated arterial filter with self venting technology. • Heat exchanger surface area should be no more than 0.2m 2 . • Venous filter should be 50 micro meter. • **Priming volume should not be more than 350ml.** • Blood flow range should be 0.5 to 7 LPM. • Heat exchange efficiency should not be less than 0.50 at max flow. • pressure drop should be minimum, up to 110 mmHg or less. • Arterial filter should be 35micron meter. • Membrane surface area should be 2-2.5 m 2 . **It should be US FDA approved.**

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S. No.	Tender Ref. No.	Existing Detail	Modifications
		mmHg or less. • Arterial filter should be 35micron meter. • Membrane surface area should be 2-2.5 m 2 .	
69	123	**Item Name:** SPECIFIAITON FOR SMALL ADULT OXYGENATOR (Integrated Filter and Heat Exchanger) **Specification** Oxygenator should have integrated arterial filter with cardiotomy/venous reservoir. • Should have integrated arterial filter with self venting technology. • Heat exchanger surface area should be no more than 0.14m 2 . • Venous filter should be 50micro meter. • Priming volume should not be more than 150ml • Blood flow range should be 0.5 to 5 LPM. • Heat exchange efficiency should not be less than 0.5 max flow @ 5 LPM • Pressure drop should be minimum up to 110 mmHg or less. • Arterial filter should be35micro meter.	**Specification** Oxygenator should have integrated arterial filter with cardiotomy/venous reservoir. • Should have integrated arterial filter with self venting technology. • Heat exchanger surface area should be no more than 0.14m 2 . • Venous filter should be 50micro meter. • Priming volume should not be more than 150ml • Blood flow range should be 0.5 to 5 LPM. • Heat exchange efficiency should not be less than 0.5 max flow @ 5 LPM • Pressure drop should be minimum up to 110 mmHg or less. • Arterial filter should be35micro meter. **It should be US FDA approved.**
70	124	**Item Name:** SPECIFICATION FOR PAEDIATRIC INFANT OXYGENATOR(Integrated Filter and Heat Exchanger) **Specification:** • Oxygenator should have integrated arterial filter with cardiotomy / venous reservoir. • Should have integrated arterial filter with self venting technology. • Heat exchanger surface area should be no more than 0.035m 2 . • Venous filter should be50micro meter. • Priming volume should not be more than 45ml. • Blood flow range should be 0-1.5Ltrs/min. Heat exchange efficiency should not be less than 0.6 at max flow. Pressure drop should be minimum up to 100mmHg or less @ 1.5 LPM Arterial filter should be35micro meter.	**Specification:** • Oxygenator should have integrated arterial filter with cardiotomy/ venous reservoir. • Should have integrated arterial filter with self venting technology. • Heat exchanger surface area should be no more than 0.035m 2 . • Venous filter should be50micro meter. • Priming volume should not be more than 45ml. • Blood flow range should be 0-1.5Ltrs/min. Heat exchange efficiency should not be less than 0.6 at max flow. Pressure drop should be minimum up to 100mmHg or less @ 1.5 LPM Arterial filter should be35micro meter. **It should be US FDA approved.**
71	125	**Item Name:** Arterial Perfusion CannulaeAdult. **Specification:** Non-wire reinforced beveled tip Size 18Fr, 20Fr, 22Fr and 24 Fr. Overall lengthshould be approx.15cm with suture bump.	**Specification:** Non-wire reinforced beveled tip Size 18Fr, 20Fr, 22Fr and 24 Fr. Overall lengthshould be approx.15cm with suture bump. **It should be US FDA approved.**

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S. No.	Tender Ref. No.	Existing Detail	Modifications
72	126	**Item Name:** Arterial Perfusion Cannulae Pediatric **Specification:** Sizes: 8Fr, 10Fr, 12Fr,14Fr and 16Fr. Non wire reinforced bevel tip. Overall length 18cm with suture bump.	**Specification:** Sizes: 8Fr, 10Fr, 12Fr,14Fr and 16Fr. Non wire reinforced bevel tip. Overall length 18cm with suture bump. **It should be US FDA approved.**
73	127	**Item Name:** Venous Cannulae Single Stage. (neonate) **Specification:** Thin Flexible wire reinforced straight open light house tip. Overall length approx.28cm with ¼ acceptance size 12Fr, 14Fr and 16Fr	**Specification:** Thin Flexible wire reinforced straight open light house tip. Overall length approx.28cm with ¼ acceptance size 12Fr, 14Fr and 16Fr **It should be US FDA approved.**
74	128	**Item Name:** Venous Cannulae Single Stage(pediatric) **Specification:** Thin Flexible wire reinforced straight open light house tip. Overall length approx. 35cm with ¼and 3/8 acceptance Size 18Fr, 20Fr, 22Fr and 24Fr.	**Specification:** Thin Flexible wire reinforced straight open light house tip. Overall length approx. 35cm with ¼and 3/8 acceptance Size 18Fr, 20Fr, 22Fr and 24Fr. **It should be US FDA approved.**
75	129	**Item Name:** Venous Cannulae Single Stage(small adult) **Specification:** Thin flexible wire reinforced straight open lighthouse tip. Overall length 35cm with 3/8 acceptance Size 26Fr and 28Fr.	**Specification:** Thin flexible wire reinforced straight open lighthouse tip. Overall length 35cm with 3/8 acceptance Size 26Fr and 28Fr. **It should be US FDA approved.**
76	130	**Item Name:** Venous Cannulae Single Stage(adult) **Specification:** Thin Flexible wire reinforced straight open lighthouse tip. Overall length should be approx.40cm with 3/8 acceptance Size 30Fr, 32Fr, 34Fr, 36Fr, 38Fr and 40Fr.	**Specification:** Thin Flexible wire reinforced straight open lighthouse tip. Overall length should be approx.40cm with 3/8 acceptance Size 30Fr, 32Fr, 34Fr, 36Fr, 38Fr and 40Fr. **It should be US FDA approved.**
77	131	**Item Name:** Venous Cannulae Right Angled **Specification:** Wire reinforced 90 0 angled plastic tip 10Fr, overalllength approx.28cm and ¼ acceptance.	**Specification:** Wire reinforced 90 0 angled plastic tip 10Fr, overalllength approx.28cm and ¼ acceptance. **It should be US FDA approved.**
78	132	**Item Name:** Venous Cannulae Right Angled **Specification:** Wire reinforced 90 0 angled plastic tip 12Fr, 14Fr and 16Fr. Overall length should be approx. 33cm with ¼& 3/8 acceptance	**Specification:** Wire reinforced 90 0 angled plastic tip 12Fr, 14Fr and 16Fr. Overall length should be approx. 33cm with ¼& 3/8 acceptance **It should be US FDA approved.**
79	133	**Item Name:**	**Specification:**

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S. No.	Tender Ref. No.	Existing Detail	Modifications
		Venous Cannulae Right Angled **Specification:** Wire reinforced 90 0 angled plastic tip 12Fr, 14Fr and 16Fr. Overall length should be approx. 33cm with ¼& 3/8 acceptance	Wire reinforced 90 0 angled plastic tip 12Fr, 14Fr and 16Fr. Overall length should be approx. 33cm with ¼& 3/8 acceptance **It should be US FDA approved.**
80	134	**Item Name:** Venous CannulaeRight Angled **Specification:** Wire reinforced 90 0 angled plastic tip 22Fr, 24Fr and 28Fr. Overall length should be approx.38cm with 3/8 acceptance.	**Specification:** Wire reinforced 90 0 angled plastic tip 22Fr, 24Fr and 28Fr. Overall length should be approx.38cm with 3/8 acceptance. **It should be US FDA approved.**
81	135	**Item Name:** Retrograde Cannula catheter **Specification:** Self-inflating smooth balloon with preshapedstylet and handle 14Fr. Overall lengt should be approx. 27cm & should have 18-20 mm sized smooth balloon.	**Specification:** Self-inflating smooth balloon with preshapedstylet and handle 14Fr. Overall lengt should be approx. 27cm & should have 18-20 mm sized smooth balloon. **It should be US FDA approved.**
82	136	**Item Name:** Aortic Perfusion Cannulae; **Specification:** Wire reinforced dispersion tip Sizes: 21Fr and 24Fr overall length approx.35cm and vent.	**Specification:** Wire reinforced dispersion tip Sizes: 21Fr and 24Fr overall length approx.35cm and vent. **It should be US FDA approved.**
83	137	**Item Name:** Dual Stage Venous Cannulae; **Specification:** Wire reinforced 32/40Fr and 36/51Fr. Overall length should be approx. 40cm and ½acceptance.	**Specification:** Wire reinforced 32/40Fr and 36/51Fr. Overall length should be approx. 40cm and ½acceptance. **It should be US FDA approved.**
84	138	**Item Name:** Femoral Arterial Cannulae; **Specification:** Wire reinforced overall length should be 19.5.2 cm with ¼ vented connector sizes: 8Fr, 10Fr, 12Fr and 14Fr.	**Specification:** Wire reinforced overall length should be 19.5.2 cm with ¼ vented connector sizes: 8Fr, 10Fr, 12Fr and 14Fr. **It should be US FDA approved.**
85	139	**Item Name:** Femoral Arterial Cannulae; **Specification:** Wire reinforced overall length should be approx. 24cm with 3/8 vented connector sizes: 16Fr, 18Fr and 20Fr.	**Specification:** Wire reinforced overall length should be approx. 24cm with 3/8 vented connector sizes: 16Fr, 18Fr and 20Fr. **It should be US FDA approved.**
86	140	**Item Name:** Femoral Venous Cannulae;	**Specification:**

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S. No.	Tender Ref. No.	Existing Detail	Modifications
		Specification: Wire reinforced overall length should be approx. 24cm with ¼ non vented connector.Sizes 8Fr, 10Fr, 12Fr and 14Fr.	Wire reinforced overall length should be approx. 24cm with ¼ non vented connector.Sizes 8Fr, 10Fr, 12Fr and 14Fr. **It should be US FDA approved.**
87	141	**Item Name:** Venous Femoral Cannulae; **Specification:** Wire reinforced overall lengthshould be 752 cm with 3/8 non vented connector sizes 18Fr, 20Fr, 22Fr,24Fr and 28Fr.	**Specification:** Wire reinforced overall lengthshould be 752 cm with 3/8 non vented connector sizes 18Fr, 20Fr, 22Fr,24Fr and 28Fr. **It should be US FDA approved.**
88	257	**Item Name:** Thoracic catheter with trocar – All Sizes **Specification:** Thoracic drainage catheter with trocar for thoracic drainage purpose. Catheters to be marked at every 5, 10, 15 & 20 cm from the last eye. Fitted with tapered connector. Sterile, packed in peelable pouch pack. Sizes: 12, 16, 20, 24, 28, 32, 36 FG	**Item to be read as DELETED**
89	261	**Item Name:** FOGARTY ARTERIAL EMBLECTOMY CATHETER **Specification:** • Vinyl Latex Balloon tipped catheter for Arterial Emblectomy procedure. • Usable length 60-80 cm, Size 2F to 8F. • Recessed winding technique for balloon attachment for maintaining balloon symmetry for uniform contact with vessel wall, providing consistent clot removal	**Specification:** • Vinyl Latex Balloon tipped catheter for Arterial Emblectomy procedure. • Usable length 60-80 cm, Size 2F to 8F. • Recessed winding technique for balloon attachment for maintaining balloon symmetry for uniform contact with vessel wall, providing consistent clot removal **It should be US FDA approved.**
90	262	**Item Name:** THRU LUMEN FOGARTY CATHETER **Specification:** • Vinyl Latex Balloon tipped catheter for Arterial Embolectomy procedure. • Usable length 80 cm. • Size 2F-8F. • Second lumen for guide wire compatibility facilitating crossing occluded, tortuous &stenotic arterial wall OR to be used for drug delivery & blood sampling. • Stainless steel bushes under proximal & distal balloon windings for visualization under fluoroscopy. • Recessed winding technique for balloon attachment for maintaining balloon symmetry for uniform contact with vessel wall, providing consistent clot removal	**Specification:** • Vinyl Latex Balloon tipped catheter for Arterial Embolectomy procedure. • Usable length 80 cm. • Size 2F-8F. • Second lumen for guide wire compatibility facilitating crossing occluded, tortuous &stenotic arterial wall OR to be used for drug delivery & blood sampling. • Stainless steel bushes under proximal & distal balloon windings for visualization under fluoroscopy. • Recessed winding technique for balloon attachment for maintaining balloon symmetry for uniform contact with vessel wall, providing consistent clot removal **It should be US FDA approved.**
91	273	**Item Name:**	**Specification:**

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S. No.	Tender Ref. No.	Existing Detail	Modifications
		Aortic punch Long handle **Specification:** • Size: 2.5cm to 6cm • Should have sharp dual cutting edge for clean, precise removal of aortic tissue. • A conical tip should be there for easy insertion by straight or button hole technique. • Ten blade sizes for trimming to desired size and shape 2.5mm – 6.0mm	• Size: 2.5cm to 6cm • Should have sharp dual cutting edge for clean, precise removal of aortic tissue. • A conical tip should be there for easy insertion by straight or button hole technique. • Ten blade sizes for trimming to desired size and shape 2.5mm – 6.0mm **It should be US FDA approved.**

Additions are as under:

S. No.	Tender Ref. No.	Item Name	Specification
1	288	Silicone Thoracic Drainage Catheter	Should have 100% silicone made. Should be soft. Should have open distal end and with multiple side holes. Should have 2cm marking from the last side hole. Should come 16-36 fr sizes. Should come in Sterile, double packed in peelable pouch pack.
2	289	Needle Free IV Access Device	Should be DEHP free Should have Silicon auto shut valve Should have Luer Lock Fitment conforming to ISO-549 standards Should be having high flow rate. Should come in sterile and ready to use, peelable packing
3	290	Needle Free IV Access Device with Extension arm	Should be DEHP free Should have one male Luer Lock at one end. Should Have One/Two/Three Extension line with Female Luer Lock and needle free Access ports with Silicon auto shut valve at each arm. Should have low priming volume (0.5 ml to1.6 ml) Should have Luer Lock Fitment conforming to ISO-549 standards Should be having high flow rate. Transparent housing to allow visual assessment of fluid path. Should come in sterile and ready to use, peelable packing Quote items separately
4	291	Multi port	3 gang Manifold provided with 1 male and 4 female Luer Lock ports. Manifold stopcock assist in controlling of fluid flow through IV delivery system at High Flow rate in various configurations to meet various IV therapy needs. Should be Lipid resistant. Transparent housing to allow visual assessment of fluid path. Should come in sterile and ready to use, peelable packing.

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S. No.	Tender Ref. No.	Item Name	Specification
5	292	ARTIFICIAL HEART VALVE BILEAFLET MITRAL	Should be Made up of pure Pyrolytic carbon Should have optimal profile height Should have 90 degree leaflet opening angle should have flared inlet at inflow Should have wide range of sizes from 23 mm to 33 mm Should have both CE and FDA approval
6	293	MECHANICAL BILEAFLET AORTIC HEART VALVE	Should be Made up of pure Pyrolytic carbon Should have optimal profile height Should have 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 Should have both CE and FDA approval
7	294	Pacing wire	O -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 USFDA Approved
8	295	VAMP Plus/ DPT Combination Kits (blood sampling kit)	Device combination kit with in line closed reservoir for infection free blood sampling along with disposable pressure transducer. It should have 60" patient tubing with two blood sampling sites located 13'" and 55" from the patient; pole mountable with needleless shielded cannula • USF'.DA Approved.
9	296	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. Should be US FDA approved.
10	297	Right Ventricle to Pulmonary Artery Conduit in all sizes	
11	298	Unipolar Temporary Myocardial Pacing Lead	Should have fixation coil to minimize tissue trauma Should have discrete Electrodes for reliable sensing and pacing Should have Silastic Fixation Disc for arterial placement Should have sleeve insulating connector pins when in use

Page No.: 3 > Earnest Money > Point No.: 2:
For:

Amount of Earnest Money Deposit :

No. of quoted items	Amount (INR)
1-30	50,000/-
31-70	1,00,000/-
71-130	1,50,000/-
131-200	2,00,000/-
More than 200	2,50,000/-

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Read:

Amount of Earnest Money Deposit : 50,000/- (Rupees Fifty Thousand Only)

Page No.: 4 > Earnest Money > Point No.: 2

For:

Earnest Money:

Earnest money by means of a Bank Demand Draft may be enclosed with the quotation (Technical Bid). It is also clarified that the quotations received without earnest money will be summarily rejected. The DD may be prepared in the name of "**All India Institute of Medical Sciences, Jodhpur**". Details of EMD is as under:

No. of quoted items	Amount (INR)
1-30	50,000/-
31-70	1,00,000/-
71-130	1,50,000/-
131-200	2,00,000/-
More than 200	2,50,000/-

a) No request for transfer of any pervious deposit of earnest money or security deposit or payment of any pending bill held by the institute in respect of any previous work will be entertained.

b) Tender shall not be permitted to withdraw his offer or modify the terms and conditions thereof. In case the tenderer fail to observe and comply with stipulations made herein or backs out after quoting the rates, the aforesaid amount of earnest money will be forfeited to the AIIMS.

c) The Tenders without Earnest Money will be summarily rejected.

d) The firms who are registered with National Small Industries Corporation (NSIC) / OR Small Scale Industrial (SSI) are exempted to submit the EMD (copy of registration must be provide along with)

e) No Claim shall lie against the AIIMS in respect of erosion in the value or interest on the amount of EMD.

f) The EMD, in case of successful bidders shall be refunded on submission of performance security. In case of non-submission of the same, EMD will be forfeited.

g) The EMD, in case of unsuccessful Bidders shall be retained by the Purchaser, upto a maximum period of 6 months from the date of opening of the Bids or till the finalization of the tender, whichever is later. The bid security shall be refunded to the unsuccessful tenderers on written request. No interest will be payable by the AIIMS authorities on the EMD.

Read:

Earnest Money:

Earnest money by means of a Bank Demand Draft of **Rs. 50,000/- (Rupees Fifty Thousand only)** may be enclosed with the quotation (Technical Bid). It is also clarified that the quotations received without

earnest money will be summarily rejected. The DD may be prepared in the name of "**All India Institute of Medical Sciences, Jodhpur**". Details of EMD is as under:

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b) Tender shall not be permitted to withdraw his offer or modify the terms and conditions thereof. In case the tenderer fail to observe and comply with stipulations made herein or backs out after quoting the rates, the aforesaid amount of earnest money will be forfeited to the AIIMS.

c) The Tenders without Earnest Money will be summarily rejected.

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Page No.: 5 > Point No.: 8 > DOCUMENTS COMPRISING THE BID > Point No.: (e):
For:
The technical bid should be accompanied by Demand draft of **Rs. 1000/- (non-refundable) against tender fee** and Demand Draft of **EMD** as mentioned above.

Read:
The technical bid should be accompanied by Demand draft of **Rs. 1000/- (non-refundable) against tender fee** and Demand Draft of **EMD** of Rs. **50,000/- (Rupees Fifty Thousand only)**.

Page No.: 9 > Point No.: 23 >
For:
Performance Security:

The bidder shall require to submit the performance security after receipt of award of notification, in the form of irrevocable Bank Guarantee (BG) / or Fixed Deposit Receipt (FDR) issued by any Scheduled Bank. Details of performance security is as mentioned below:

S. No.	No. of Awarded Items	Amount of Performance Security (INR)
1	1-30	50,000/-
2	31-60	1,50,000/-
3	61-120	4,00,000/-

4	121-180	8,00,000/-
5	More than 180	12,00,000/-

The security deposit of successful bidders will be kept for the period of one and half year from the date of award of the contract and shall be refunded without any interest on it within 15 to 90 days after completion of the contract as per order, or after the expiry of contract on satisfactory completion of the same whichever is later.

The security deposit can be forfeited by the Institute in the event of any breach or negligence or non–observance of any condition of contract or for unsatisfactory performance or non–observance of any condition of the contract.

Read:

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S. No.	No. of Awarded Items	Amount of Performance Security (INR)
1	1-30	**1,00,000/-**
2	31-60	**2,00,000/-**
3	61-120	4,00,000/-
4	121-180	8,00,000/-
5	More than 180	12,00,000/-

The security deposit of successful bidders will be kept for the period of one and half year from the date of award of the contract and shall be refunded without any interest on it within 15 to 90 days after completion of the contract as per order, or after the expiry of contract on satisfactory completion of the same whichever is later.

The security deposit can be forfeited by the Institute in the event of any breach or negligence or non–observance of any condition of contract or for unsatisfactory performance or non–observance of any condition of the contract.

Administrative Officer