

**Corrigendum**  
**In Tender Document**  
**Tender Enquiry No. 24/Pharma/429/2018-Rish(Admn)**

**Dated: 03/10/2018**

As per schedule, Pre-Bid meeting of “Completion of Laboratory Animal Facility (HVAC, Electrical, IBMS, Plumbing, Drainage, PUF Panel Partition, Finishing, Furnishing, Remaining Civil Work) and Procurement, Supply, Installation, Testing and Commissioning of Laboratory Animal Facility Equipment at AIIMS-Rishikesh On Turnkey Basis” was held on 06-09-2018 at 03.00 PM, in the tender opening room.

After consideration by Technical Specification Committee, Specification of aforesaid tender is now read as following: -

<b>Sl. No.</b>	<b>Tender Clause No. and Page No.</b>	<b>Specification/Points as it is in tender Document</b>	<b>To be read as</b>
1.	Item No. 1 of specification, Page No 21	<b>1. IVC System for Mice:</b> 4 ventilators, 16 racks, 192x 4 Cages with Spare cages complete with water bottles etc.-300 Nos, Spare cage lids-300 Nos, Spare HEPA Filters for Air Handling Units-5 Nos., Spare Disposable cage filters-1000 Nos	<b>1. IVC System for Mice and Rat</b> ➤ 4 ventilators, 16 racks (8 Racks suitable to house atleast 468 Mice cages, 8 racks for rats suitable to house 300 rat cages), with Spare cages complete with water bottles, cage card etc.-300 Nos (180 for Mice, 120 for rat), Spare cage lids-300 Nos (180 for Mice, 120 for rat), Spare HEPA Filters for Air Handling Units-5 Nos., Spare Disposable cage filters-1000 Nos
2.	Point no. 1.1 of Item No. 1 of specification, Page No 21	<b>1.1 AIR HANDLING UNITS (IVC Ventilator)</b> ➤ Fresh air supply system comprising of Fan with speed regulator with Prefilter size 380 x 305 mm, HEPA filter size 380 x 305 mm ➤ Exhaust air evacuation system comprising of Fan with speed regulator with Pre-filter size 380 x 305	<b>1.1 AIR HANDLING UNITS (IVC Ventilator)</b> ➤ Fresh air supply system comprising of Fan with speed regulator with Prefilter and HEPA filter ➤ Exhaust air evacuation system comprising of Fan with speed regulator with Pre-filter and HEPA filter

		<p>mm, HEPA filter size 380 x 305 mm</p> <ul style="list-style-type: none"> <li>➤ Maximum air speed 0.05m/sec</li> <li>➤ Microprocessor controlled system for setting and control of parameters. HMI, TFT LCD 16 bit colour display with software, High Intensity Touch screen, virtual keypad</li> <li>➤ Low noise Units (&lt; 50 dB)</li> </ul>	<ul style="list-style-type: none"> <li>➤ Maximum air speed 0.2m/sec</li> <li>➤ Microprocessor controlled system for setting and control of parameters. HMI, TFT LCD 16/32 bit colour display with software, High Intensity Touch screen, virtual keypad</li> <li>➤ Low noise Units (&lt; 60 dB)</li> </ul>
3.	Point no. 1.2 of Item No. 1 of specification Page No 22	<p><b>1.2 IVC Cage Rack for Mice</b></p> <ul style="list-style-type: none"> <li>➤ Suitable for cage loading from single side for 48 nos. IVC cages for mice</li> <li>➤ Duct couplers, endcaps, Cage Pressure sensor pipe with QRC</li> </ul>	<p><b>1.2 IVC Cage Rack for Mice and Rat</b></p> <ul style="list-style-type: none"> <li>➤ Suitable for cage loading from single side for 54-64 nos. IVC cages for mice, and 36-42 nos. IVC cages for rats</li> <li>➤ Duct couplers, endcaps, Cage Pressure sensor pipe</li> </ul>
4.	Point no. 1.3 of Item No. 1 of specification Page No 22	<p><b>1.3 IVC Cages for Mice</b></p> <ul style="list-style-type: none"> <li>➤ IVC Cage Assembly for mice, in polysulphone construction</li> <li>➤ Floor area approx. 530 cm<sup>2</sup></li> <li>➤ Approximate Cage height: 14 cms approx.</li> <li>➤ Overall Dimension: L 365 x W 207 x H 190mm</li> </ul>	<p><b>1.3 IVC Cages for Mice and Rat</b></p> <ul style="list-style-type: none"> <li>➤ IVC Cage Assembly for mice and rat in polysulphone construction</li> <li>➤ Floor area approx. 500-530 cm<sup>2</sup> (Mice), 780-800 cm<sup>2</sup> (Rat)</li> <li>➤ Approximate Cage height: 14-16 cms approx.(Mice), 18-20 cms approx. (Rat)</li> </ul>
5.	Item No. 2 of Specification Page No 22	<p><b>2. Rabbit Cages</b></p> <ul style="list-style-type: none"> <li>➤ 500 ml capacity water bottle</li> <li>➤ Cage Size: L 760 x W 650 x H 380 mm</li> </ul>	<p><b>2. Rabbit Cages in Full SS body</b></p> <ul style="list-style-type: none"> <li>➤ 500/600 ml capacity water bottle</li> <li>➤ Cage Size: L 30 x W 24 x H 14 inches</li> </ul>
6.	Item No. 4 of Specification Page No. 23	<p><b>Bedding Disposal System</b></p> <ul style="list-style-type: none"> <li>➤ 4' wide Biological Safety Cabinet.</li> <li>➤ 12" view screen sash opening</li> </ul>	<p><b>Bedding Disposal System</b> Both deleted. <b>Addition</b></p> <ul style="list-style-type: none"> <li>➤ Surface width: 90 cm</li> <li>➤ Accessories: - Polyethylene bin with S/S trolley</li> </ul>

			- Stainless steel waste bag trolley with hinged opening for bag removal from the front
7.	Item 5 of Specification Page No. 23	<b>Animal Change/Work Station</b> ISO Class 4 Air Quality (ISO 14644-1) Sash opening	<b>Animal Change/Work Station</b> Air Quality: Better than ISO Class 6
8.	Item 6 of Specification Page No. 23	<b>Steam Sterilizer</b> Chamber capacity: 500 litres	<b>Steam Sterilizer</b> Chamber capacity: 750 litres
9.	Item 16 of Specification Page No. 23	<b>Micro-Centrifuge Machine</b> Should be bench top model with external dimensions not exceeding 230 x 250 x 360 mm (height x width x depth in mm)	<b>Micro-Centrifuge Machine</b> Should be bench top model
10.	Item 19 of Specification Page No. 28	<b>Laboratory Microscope</b> ➤ Halogen / LED light source illumination. ➤ Eye pieces with pointers – 10 nos.	<b>Laboratory Microscope</b> ➤ With Camera ➤ LED light source illumination. ➤ Eye pieces with pointers- 10 X
11.	Item 20 of Specification Page No. 28	<b>Stereo Microscope</b> ➤ Fluorescent bottom illumination ➤ Binocular Body: Can be rotated full 360 degrees	<b>Stereo Microscope</b> ➤ Fluorescent top illumination ➤ deleted
12.	Item 25 of Specification Page No. 30	<b>Manual Microtome</b> ➤ Range of section thickness: 0.5 - 100 µm from 0.5 µm - 1 µm in 0.5 µm increment from 1 µm - 100 µm in 1 µm increment ➤ Section Thickness Indication Trimming Section: 0.5 - 100 µm from 0.5 µm - 1 µm in 0.5 µm increment from 1 µm - 100 µm in 1 µm increment ➤ Automatic Motorized adjustable specimen retraction ➤ Horizontal Specimen feed: 30mm	<b>Manual Rotary Microtome</b> ➤ Range of section thickness: 0.5 - 100 µm from 0.5 µm - 1 µm in 0.5 µm increment from 1 µm - 100 µm in 1 µm increment ➤ Section Thickness Indication Trimming Section: 0.5 - 100 µm from 0.5 µm - 1 µm in 0.5 µm increment from 1 µm - 100 µm in 1 µm increment ➤ Trim settings: 10, 30 µm ➤ Specimen Orientation: Horizontal 8°, Vertical 8° ➤ Maximum Specimen Size: (LxHxW): 50mmX60mmX40mm

		<ul style="list-style-type: none"> <li>➤ Vertical Specimen Feed: 60mm</li> <li>➤ Specimen Orientation: Horizontal 8°, Vertical 8°</li> <li>➤ Maximum Specimen Size: (LxHxW): 50mmX60mmX40mm</li> <li>➤ Operating Voltage: 220V Single Phase AC supply</li> </ul>	<ul style="list-style-type: none"> <li>➤ Specimen Feed: approx. 24 mm ±2 mm</li> <li>➤ Vertical Stroke: 70 mm ±1 mm</li> <li>➤ Large Standard clamp: 55 x 50 x 30 mm</li> <li>➤ Super Cassette Clamp: 68 x 48 x 15 mm</li> <li>➤ Specimen Retraction: Approx. 40 µm</li> <li>➤ Handwheel Lock / Brake: 2 Mechanical Locks</li> <li>➤ Coarse Feed Wheel Turn Direction: Clockwise or Counter-Clockwise</li> <li>➤ Waste Tray: Antistatic</li> <li>➤ Waste Tray Volume: 1400 ml</li> <li>➤ Blade Holder: 2-in 1 for high and low profile blades</li> <li>➤ With all accessories</li> <li>➤ FDA/CE certified</li> </ul>
13.	Item 26 of Specification Page No. 30	<p><b>Table Mounted Tissue Processor</b> with 10 Nos. reagent containers, 2 Nos. stainless steel Wax Baths and 2 Nos. stainless steel basket rotors with capacity of 1Ltr.and 2 Ltrs</p>	<p><b>Automated Vacuum Tissue Processor</b></p> <ul style="list-style-type: none"> <li>➤ Carousel type with 12 stations</li> <li>➤ With 10 Nos. reagent containers, 2 Nos. stainless steel Wax Baths and 2 Nos. stainless steel basket rotors with capacity of 1Ltr.and 2 Ltrs.</li> <li>➤ In-built vacuum with fume control.</li> <li>➤ Audible alarms, error message and warning codes</li> <li>➤ Ergonomic Control Panel with full protected keyboard and LCD</li> <li>➤ Easy editing and changing program.</li> <li>➤ 9 delayed start function up to 9 days should be possible.</li> <li>➤ Separately programmable infiltration time for each station.</li> </ul>

			<ul style="list-style-type: none"> <li>➤ Should have nine freely selectable programmes.</li> <li>➤ Drain time not more than 60 secs.</li> <li>➤ Possibility of interrupting an automatic process for reloading or removing cassettes</li> <li>➤ Basket should automatically immerse in a station during the power failure.</li> <li>➤ With all accessories.</li> <li>➤ FDA/CE certified.</li> </ul>
14.	Item 28 of Specification Page No. 30	<p><b>Slide Staining Machine</b></p> <ul style="list-style-type: none"> <li>➤ Modular, 44 Stations, microprocessor controlled automatic program</li> <li>➤ Multiple staining procedures with their names &amp; various parameters</li> <li>➤ Should include slide holders for 76 x22 standard slides</li> <li>➤ Detachable drip tray for cleaning</li> </ul>	<p><b>Slide Staining Machine</b></p> <ul style="list-style-type: none"> <li>➤ Modular, 44 Stations, microprocessor controlled automatic program</li> <li>➤ Multiple staining procedures with their names &amp; various parameters</li> <li>➤ Should include slide holders for 76 x22 standard slides</li> <li>➤ With UPS, Inbuilt heating system for slide drying.</li> <li>➤ With an active carbon filter.</li> <li>➤ Detachable drip tray for cleaning</li> <li>➤ Multiple slides per run (1 to 4), a maximum throughput of more than 400 slides per hour</li> <li>➤ Can be interfaced with coverslipper</li> <li>➤ To be supplied with all accessories</li> <li>➤ FDA/CE certified</li> </ul>
15.	Item 30 of Specification Page No. 31	<p><b>Coverslippers</b></p> <ul style="list-style-type: none"> <li>➤ Fully automated Coverslipping Workstation</li> <li>➤ With two drawer systems and 30-capacity slide racks</li> <li>➤ Can perform H&amp;E, PAP and special staining protocols, alone or in combination.</li> </ul>	<p><b>Coverslippers</b></p> <ul style="list-style-type: none"> <li>➤ Fully automated Coverslipping Workstation</li> <li>➤ Coverslip magazine capacity: Depending on coverslip size: 120 pcs. (22-24mm x 60mm; #1.5), 160 pcs. (22-24mm x 40mm; #1.0)</li> </ul>

		<ul style="list-style-type: none"> <li>➤ Parameters for each reagent station can be individually set to adjust staining to the pathologist's requirements</li> </ul>	<ul style="list-style-type: none"> <li>➤ Slide throughput: 1 slide in 9 seconds</li> <li>➤ With an inbuilt charcoal filter/ventilation system for fume extraction.</li> <li>➤ With two drawer systems and 30-capacity slide racks</li> <li>➤ Can perform H&amp;E, PAP and special staining protocols, alone or in combination.</li> <li>➤ Parameters for each reagent station can be individually set to adjust staining to the pathologist's requirements</li> <li>➤ To be supplied with all accessories</li> <li>➤ FDA/CE certified</li> </ul>
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**Clarifications**

16.	22 of Tender notice, page 4	The supplier is required to provide the demonstration of equipment at AIIMS premises to the AIIMS representatives for its evaluation as per the specification & desired functionality standard. However, a submission of videography displaying functionality as per tender specification may also be considered by the AIIMS, representative	A live demo, if not feasible then video demo may be taken
17.	9 to 12 of Financial terms & conditions, page no 9 & 10	Sales Tax / GST	Both rates may be quoted
18.	Point no. 17 of Technical bid page no 13	Please submit two performance certificate from your two different customers to whom you have supplied such type of equipment in previous 3 years	Please submit two performance certificate from your two different customers to whom you have supplied such type of equipment or similar work in previous 3 years
19.	27 of Tender notice, page no. 5	Income Tax Clearance Certificate	<ul style="list-style-type: none"> <li>➤ Last three years IT returns.</li> </ul>

		<ul style="list-style-type: none"> <li>➤ GST certificate of last year verified by Chartered Accountant.</li> <li>➤ Provide ITCC application</li> </ul>
<b>CIVIL/ELECTRICAL/HVAC WORK CLARIFICATIONS</b>		
1.	ETP Plant	Chamber is in approx. proximity of 50 meters from animal house.
2.	RH and Temp details for Animal Room	<ul style="list-style-type: none"> <li>➤ Rat/Mice Room: 22±1<sup>0</sup>C</li> <li>➤ Rabbit Room: 20±2<sup>0</sup>C</li> <li>➤ Lab/Office Areas: 22±1<sup>0</sup>C</li> <li>➤ R.H.: 30-70%</li> </ul>
3.	UPS Power Requirement	➤ Yes for item no. 26, 30
4.	Waste disposal	➤ No incinerator required.
5.	Price bid format	➤ Can be bifurcated into Civil work, Interior & Partitioning, Equipment, Electrical, HVAC, Plumbing
6.	HVAC work	➤ Need to design complete HVAC work with maximum use of existing system.
7.	Exhaust system	➤ No exhaust has been provided at current animal house building. Exhaust to be designed as per requirement.
8.	Electrical Work	<ul style="list-style-type: none"> <li>➤ Only inner main cable of suitable size will be provided. LT Panel and further distribution is in scope of successful bidder/turnkey work.</li> <li>➤ Separate earthing for the equipment is to be provided by the successful bidder.</li> </ul>
9.	Flooring	➤ Epoxy flooring (4-6 mm thickness suitable for movement of heavy instruments) excluding self-levelling thickness.
10.	Civil Work Changes	➤ 5-10% change will be allowed in existing structure or as per satisfaction of Engineer-in-charge.
11.	Water/Electrical Supply	➤ Will be provided near animal house
12.	RO Plant	➤ Required to satisfy the need, sample to be tested by the bidder.
13.	USER Requirement	<ul style="list-style-type: none"> <li>➤ Experimental animal room: 02</li> <li>➤ Animal Holding Room:02</li> <li>➤ Breeding Room:02</li> <li>➤ Quarantine Room:01</li> <li>➤ Histopathology/Necropsy room: 01 each</li> <li>➤ Lab/Instrumentation Room: 01</li> <li>➤ Surgery room with post-operative care:01</li> <li>➤ Clean Storage:01</li> <li>➤ Washing area/Sterilization Room:01</li> </ul>

		<ul style="list-style-type: none"> <li>➤ Feed Storage Room:01</li> <li>➤ Cage Storage Room:01</li> <li>➤ Change Room:01</li> <li>➤ Waste Storage Area</li> <li>➤ Conference Room:01</li> <li>➤ Officer's room:02</li> <li>➤ Office: 01</li> <li>➤ Pantry: 01</li> </ul>
14.	Removal of old false ceiling and installation/ commissioning of walkable false ceiling of PUF panel in all animal rooms	To be done by the successful bidder and the removed materials to be handed over to engineering department.
15.	Making arrangements of dirty corridor with partition of PUF panel, from ground to false ceiling, and each room should be connected via dynamic pass box (Dimensions of pass box should be suitable for a person to move)	To be done by the successful bidder in scope of turnkey work
16.	Light	A time-controlled lighting system (Fluorescent lights) with less than 400 lux
17.	Noise	Preferably less than 85 dB.
18.	List of Component Manufacturers	FABTECH Makes included in the following sections of products: Item No. 1-4, 8-10, 33
19.	List of equipment manufacturers	Orient Bio makes included in the following sections of products: Item No. 2, 3, 8, 40-43, 46, 47, 50-51

1. Every equipments should be provided with all spares, accessories.
2. Item No. 17, 18, 20, 29, 32 should be FDA/CE certified.
3. SS equipments/furniture should comply BIS certification.
4. All prospective bidders are requested to check CPP Portal for last date of submission of bids in aforesaid tender.