



**MAHATMA GANDHI MISSION TRUST**

**MGM INSTITUTE OF HEALTH SCIENCES, CENTRAL PURCHASE DEPARTMENT (CPD)**

**Plot 1 &2, Sector -1 Kamothe, Navi Mumbai 410209**

**1. E-Tender for Automated Zebrafish Housing System.**

**Tenders invited from reputed Manufactures or their authorised distributors / dealers of Medical Equipment for MGM School of Biomedical Sciences at Navi Mumbai in the format given below:**

**Name & Address of Vendor:** \_\_\_\_\_

Specifications	Details of Make & Model (Specifications)	Required Qty.	UOM	Rate Per Unit (Excluding GST)	GST %
<b>Make</b>		<b>1</b>	<b>Nos.</b>		
<b>Model Name (Preferably with largest FOV available)</b>					
<b>Warranty: 05 Years</b>					
<b>4 tire (05 Shelf)</b>					
<b>Around 300 Zebra Fishes</b>					
<b>Housing Rack</b>	SS Frame 305/316 grade with leveling feet, SS Thickness 1.5mm, full welding 25 x 25mm square tube				
<b>System Control</b>	Electronic system Control box providing contrls for water filtration, measurement, air blower and pump system with automatic restart of system in case of electrical fluctuation. System should restart				
<b>Fish Tanks</b>	Fish Tank: Self-cleaning design, Tank material: polycarbonate (PC), food grade, light and transparent quality, one piece molded and autoclavable				
	Tank Size: 1.5 L = 30 Nos, 3.5 L = 25 Nos, and 8 L = 10 Nos				
	Tank lid consists of water inlet and feeding, inlet holes				

<b>Water Filter System with RO Water plant</b>	A water recirculation filtration system that keeps the water clean and allows complete water recirculation with removal of particles. Consists of filters with housing to remove 150 micron particles, Bio filters and Ultraviolet filter for complete water filtration	
<b>Water Measurement &amp; Monitoring Systems</b>	Measurement of Ph, Dissolved Oxygen, temperature unit that reflects the water statistics whenever the measurement system is turned on or if left running, 24x7 should reflect real time ph, Dissolved Oxygen and temperature control by floating ball device. UV Sterilizer for sterilizing the water conductivity.	
<b>Air Blower and Pumping with Plumbing</b>	Air pump min 40 liter per min with diffusers in Sump, Water pumping silent pump and plumbing systems pump out piping 1/2" CPVC pipe composed Independent water inlet valve for each layer and each tank. Each layer pipe should detachable. Each tank water inlet valve should be removable. UPVC plumbing with water gutter system that allows the tank to discharge dirty water from one end. Tank out Piping: removable clear acrylic drain gutter, Water Circulation rate for the system 3 - 8 times/day of valves and unions	
<b>Consumables and Spare (for 02 Years)</b>	Spare Tanks: 30 Nos (10 each of 1.5ltr, 3.5 liter. And 8 liters planned for 2 Years research projects)	
	4 Set of consumables of filters for replacement of same every 6 months. (bio filters, filters pad, gravel etc.)	
	Pump - 1 Spare pump	
	filter - 01 Air filter	
	Breeding tanks small with removable dividers - 10 Nos with tank baffles for larva and other system	

<b>Installation</b>	Complete onsite installation, setup and training				
<b>Warranty</b>	If any parts are required to be imported they shall be supplied free of cost on C.I.F. Basis for under warranty.				

Kindly email your lowest quotation as above with your terms & conditions as well as applicable brochure / catalog, user list to only [etenders@mgmuhs.com](mailto:etenders@mgmuhs.com)

**Date:**

**Signature of Tenderer:**

<b>Name:</b>
<b>Designation:</b>
<b>Email ID:</b>
<b>Mobile No.:</b>
<b>Full Address:</b>

**Seal**

## **Zebra fish Housing System (Technical Specifications)**

Sr. No.	Item Specification	Details
1	The Zebrafish Stand-Alone System should have self-contained stand-alone rack with self-cleaning polycarbonate tanks.	
2	The frame of the rack should be made with high quality stainless steel and have adjustable feet.	
3	Number of rows: Minimum 5	
4	Each water flow outlet should be able to accommodate tanks of varying capacity – from ~1 L to ~10 L.	
5	Water flow should be controllable for each row, and each tank in each row.	
6	The system should have the capacity of a minimum of 6 GPM recirculation rate.	
7	System should be capable of automatic water exchange – that can be programmed by the user.	
8	The system should be equipped with Multi-Phase water filtering system.	
9	Mechanical filtration should be achieved either with the help of Dacron pad, or filter bags and filter cartridges (at least 50 microns or lower) or by mechanical drums.	
10	Presence of biological filters is a must – fluidised bed or moving bed.	
11	Chemical filtration with activated carbon filters.	
12	The system should be equipped with UV steriliser.	
13	The stand-alone system should include electronically controlled heater that can be programmed by the user. The accuracy of the heater should lie within 10C.	
14	The system should be equipped with a monitoring system to monitor the essential parameters such as pH, temperature, conductivity and water level.	
15	The tanks provided should be made of polycarbonate and be autoclavable.	
16	Complete tank sets (including tank, lid and baffles) of varying sizes should be included in the quotation: small (1.5 L) – 30 nos, medium (3.5 L) – 25 nos, large ( 8 L) – 10 nos, Breeding tank small with removable dividers - 10 Nos.	

17	Fine (~400 micron) and coarse (~850 micron) fry screens for each tank size should be provided – 5 nos of each kind – 5 (fine) + 5 (coarse) = 10 fry screens for small tanks, 10 fry screens for medium tanks and 10 fry screens for large tanks = total of 30.	
18	Brine shrimp hatcher (2 L) with stand and air pump – 2 nos should be included in the quotation.	
19	The vendor must have installed at least one such system in the last three years in reputed government institutes of India, and documentary evidence of this must be provided along with the quotation for qualification	
20	Warranty: 5 years	
21	Service Engineer with OEM certification and authorisation should be available in India.	
	<b>Systems</b>	<b>Unit Price</b>
1	<b>Zebra fish Housing System Detailed as per technical specification</b>	
<p>Above item should carry Five years onsite comprehensive warranty onsite full comprehensive free warranty. In case the tendered provide warranty less than Five years then he has to give justification for lesser period of warranty.</p>		
<p><b>Note: - Parties must mention make &amp; model no. of the equipment offered by them, with detailed specification (on separate sheet). Otherwise their tender will not be accepted.</b></p>		