

Indian Institute of Technology - Kanpur
Department of Biological Sciences & Bioengineering

Enquiry Number: BSBE/CARE/2013/transgenics/NC3, dated 16/01/2013

Sub.: Inquiry for the supply of stand-alone zebrafish aquaculture system.

Opening date: January 16/01/2013

Closing date: January 23/01/2013

Article #1: Main Aquaculture System (Quantity 1)

Stand and controller: 6 self stand alone systems made from Heavy-duty, 316L stainless steel frame with leveling feet for Zebra Housing in the laboratory. System should have Ergonomic, autoclavable polycarbonate tanks (1.5 Liter-One Row 3.0 Liter-Three Row and 10.0 Liter-Two Rows), with lids and baffles. System should have electrical requirement around 220 -240V/5.1 A/50 Hz. System should have PLC controller with low water level safety shut-off and alarm.

Water filtration: 5 stage - 1st Stage: 120-micron filter pad. 2nd Stage: Combined moving and submerged-bed biological filtration (over 90 m² of surface area). 3rd Stage: 50-micron filter cartridge. • 4th Stage: Activated carbon adsorbs volatile organics and other contaminants. 5th Stage: UV disinfection dose of 110 mJ/cm² at end of lamp life. UV sterilizer and heaters should shut off in the event of a pump shut- down 10% water exchange of system water over a 24-hour period. Medical grade platinum-cured silicone tubing

Water quantity temperature and flow: Culture volume 300 liters, Total water volume: 340 liters (90 gal) , 6 tank water exchanges per hour. System should have air diffusers in biofilter to provide supplemental aeration and degassing. System should have Titanium heater maintains temperature differential of 5°C. System should have facility to service units while still running the system including UV. Water flow control to the system and individual tanks. Continuous duty rated and quite running pump.

Article #2: Fish Tanks FDA approved clear polycarbonate tanks. Self-cleaning flow design Moulded feet for easy removal and secure positioning

Quantity:

- 1.5L Tank row (20 of 1.5L Tanks, 20 valve manifold)
- 3L tank row (no dividers) (12 of 3L tanks, 12-valve manifold) – 3X
- 10 L tank row (6 of 10L tanks, 12-valve manifold) – 2X

Article #3: Supplemental /consumable Items

50-Micron Filter Cartridge, pre-filter pads, Reef carbon, One carbon rinse bag, Standalone systems spare O-ring kit, 80-Watt Replacement UV Lamp and Quart Sleeve, Spare System Pump Assembly (with fittings, connector), Twelve of 3-Liter Tank Screen Baffle (400-micron), Proline Freshwater Bacteria (16 oz), Ten of 2-L breeding tanks, UV-seal kit

Your quote should mention/include the following:

- Validity at least for 90 days.
- Warranty period for the instrument (preferably for two years from installation).
- Quote should be for CIF (Port of entry in India).
- Indian agency commission if applicable (should be certified by the principal if no agency commission is applicable) in case of import.
- Authorization certificate from the principal if you are a local Indian agent.
- Terms and conditions for the payment, including the banker's name of the principal and the account number, if any, for electronic transfer.
- Include proprietary item certificate if applicable.
- Technical literature to support your product.
- Users' list with contact address.

The quote (in duplicate) should reach the undersigned on or before **January 23, 2013**. The envelope should be marked as "**Quote for the supply of Stand-alone zebrafish aquaculture system**".

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