

Appendix – I Part - II

Sr. No.	Name of the equipment with specification with required quantity	Cost per unit (Rs.)	Estimated Total Cost (Rs.)
1	<p><b>FRP tank for Artemia Hatching (30 liter Capacity)(3 no.)</b> 4 mm thick round tank with vision glass and flanges. Inside plain gel coat finish and outside bottom and side supporting MS stand and PVC inlet/outlet. Both side blue colour.</p>		
2	<p><b>FRP tank for Maturation cum Holding (2 no.)</b> 2 m diameter and 1 m height with 5 cm wide collar. Disc shape bottom, Thickness of tank wall is 6 mm, 50 mm diameter central drain, 25 cm height FRP quotes MS stand for bearing 10000 lit weights. Both side blue colour.</p>		
3	<p><b>FRP tank for Larval Rearing (1000 lit)(3 no.)</b> 2 m length, 1 m width, 0.5 m height. Oval shape, 5 cm wide collar, thickness of tank wall 5 mm diameter, PVC inlet/outlet, inside white colour outside blue colour.</p>		
4	<p><b>FRP tank for Hatching (3 no.)</b> 0.9 m diameter and 0.7 m height with 5 cm wide collar. Disc shape bottom with lid. Thickness of tank wall is 4 mm, 32 mm diameter, PVC inlet/outlet; 25 cm height FRP quoted MS stand for bearing 300 lit weights. Both side Black colour.</p>		
5	<p><b>Biological Trinocular Microscope ( 1 no.)</b>  <b>Main Stand DM 500</b> - Right Hand Stage Standard Stand with 4 position nosepiece, Universal Power Supply, mechanical stage with non extending rack and slide holder, Pre-Centered and Pre-Focused Abbe condenser with slot for Phase and Dark field Sliders and labels for matching objective magnifications.  <b>Illumination LED illumination</b> - 6000 K temp, 25,000 h life at full intensity Continuous intensity adjustment Illumination enough for viewing at lowest intensity.  <b>Trinocular viewing tube</b> - With viewing angle 45 or 30 degree, Captive thumbscrew availability for safe.  <b>Interpupillary Distance</b> - Interpupillary Distance Range 52mm – 75mm  <b>Eye pieces with locking screw</b> - 10x /20 with 20mm Field of View integrated into tube  <b>Field of view</b> - 20 mm  <b>Nosepiece</b> - Knurled 4 position nosepiece with M25 nosepiece thread  <b>Objectives</b> - Plan 4X/0.10NA, 26.2mm W.D.  Plan 10X/0.22 NA, 7.8mm W.D.  Plan 40X/0.65 NA, 0.31mm W.D.  Plan 100x/1.25 NA, 0.10mm W.D., Oil  <b>Focus</b> - Self adjusting Focus mechanism with Low Position Focus Controls  300 microns per Fine Focus Rotation calibrated in 3 micron increments  <b>One handed slide loading</b> - One handed slide loading  <b>Stage travel</b> - 26mm x 76mm stage travel with verniers for XY coordinates  <b>Stage surface</b> - Stage surface 185mm (150mm front) wide 140mm deep. Rounded stage edges.  <b>Stage surface</b> -Wear resistant stage surface.</p>		

	<p><b>Easy carry</b> - Vertical handle.  <b>Cord wrap</b> - Cord wrap.  <b>Vertical cord attachment to stand</b> - Vertical cord attachment to stand.</p> <p><b>Digital Camera System with USB 2.0 interface</b>  <b>Digital camera</b> - Digital camera with software kit for on-screen microscope image display  <b>Resolution</b> - 3.1 M Pixels having 2048 x 1536 Resolution  <b>Exposure time</b> - Exposure time 0.1 msec- 2 sec  <b>A to D Conversion</b> - A/D converter 10 bit, dynamic range &gt;45dB,  <b>Speed</b> - Max.15 frames per sec. Gain 1x - 20x, shading correction  <b>Sensor</b> - CMOS sensor progressive scan  <b>Pixel Size</b> - 3.2 um x 3.2 um  <b>Colour Depth</b> - Colour depth 30 bits Colour filter RGB (Bayer)  <b>C Mount Adapter</b> - 0.55x for 1/2 inch detectors  <b>Interface</b> - Single cable USB2, Supported operating systems PC Win 2000, XP  <b>Software</b> - Suitable software for variety of imaging tasks such as Annotations, Calibrations, and Image Measurements. The Software should provide the means to define acquisition preferences by individually setting exposure time, Gain and Gamma levels as well as color depth and size. The results should be crisp, sharp images which can be saved and displayed as thumbnails in an Integrated Gallery and reviewed at any time. All image related information such as acquisition time, bit depth, and calibration is stored, which again simplifies the retrieval process.</p>		
6	<p><b>Plastic pools with frame</b>  (4' diameter X 2' height)(8 no.)  (6' diameter X 2' height)(10 no.)  (12' diameter X 2' height)(2 no.)</p>		

<b>7</b>	<p><b>Hand held waterproof pH/DO/temperature meter (1 no.)</b>  pH/DO/temperature meter kit  Durable waterproof,IP67 meter to withstand most demanding field applications with over 2000 hours of continuous operation.</p> <p>Storage for up to 10 password protected methods for easy retrieval of operation procedures.</p> <p>Dissolved oxygen calibration to the Winkler Titration for BOD</p> <p>Simultaneous display of pH, DO and temperature measurement</p> <p>For pH-</p> <p>Readout range : 0 to 14 in aqueous solutions</p> <p>Relative accuracy : <math>\pm 0.002</math></p> <p>AUTO-CALTM and / or Manual Calibration : 1 to 5 points : US / NIST, DIN, and custom buffers recognized</p> <p>For DO</p> <p>Range : Concentration – 0.00 to 90.0 mg/L  % Saturation – 0.0 to 600 %</p> <p>Resolution : Concentration – 0.0/0.00  % Saturation – 0/ 0.0</p> <p>Accuracy : Concentration - <math>\pm 0.5\%</math>  % Saturation <math>\pm 1</math> digit</p> <p>Auto Calibration or Saturated, Winkler : Water Saturated Air and Air</p> <p>Manual Input</p> <p>Salinity Factor : 0 to 45 ppt</p> <p>Barometer Pressure Range : 450 to 850 mm Hg</p> <p>Probe Type : Polarographic</p> <p>For Temperature</p> <p>Range : -5 to 105°C</p> <p>Resolution : 0.1 up to 99.9°C, 1.0 over 99.9°C</p> <p>Relative Accuracy : <math>\pm 0.1^\circ\text{C}</math></p>		
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- Rates should be quoted in Rs. (INR) inclusive of all taxes & transportation charges FOR College of Fisheries, Shirgaon, Ratnagiri.