

Table 2 Quality of water in captive rearing in FRP tank, normal pond and sewage fed pond and also the sewage during the study period

Parameters	Captivity in FRP tank Mean±SD (Range)	Normal pond Mean±SD (Range)	Sewage-fed pond Mean±SD (Range)	Sewage from channel Mean±SD (Range)
Temperature (°C)	28.52±2.40 (26.80-30.20)	28.17±3.35 (21.59-32.21)	28.54±3.51 (21.38-32.00)	27.38±7.31 (22.20-32.55)
pH	8.01±0.11 (7.94-8.09)	7.57±0.20 (7.14-7.92)	7.51±0.22 (7.14-7.84)	7.30±0.14 (7.40-7.20)
Dissolved oxygen (mg/L)	4.78±1.56 (3.68-5.88)	7.69±1.61 (6.07-8.90)	7.89±0.85 (5.59-8.81)	2.08±0.23 (1.55-2.58)
Free carbon dioxide (mg/L)	4.00±3.52 <sup>A</sup> 4.00-12.24	8.08±7.00 <sup>A</sup> (0.00-21.66)	13.27±5.64 <sup>A</sup> (6.34-20.41)	51.00±4.24 (48.00-54.00)
Total hardness (mg/L)	830.40±63.75 <sup>A</sup> (712.55-948.25)	288.63±63.14 <sup>A</sup> (171.72-362.48)	250.50±57.57 <sup>A</sup> (137.51-304.42)	4030.06±311.13 (3810.00-4250.00)
Total dissolved solids (mg/L)	1676.08±282.84 <sup>A</sup> (1476.00-1867.00)	465.10±108.81 <sup>A</sup> (295.17-575.03)	264.58±45.10 <sup>A</sup> (190.68-360.52)	472.49±17.68 (460.03-485.07)
Biological oxygen demand (mg/L)	ND	5.60±1.29 (3.59-7.53)	6.95±1.61 (3.93-9.61)	62.04±8.49 (56.00-68.10)
Phosphate-phosphorus (mg/L)	0.05±0.03 (0.03-0.09)	0.10±0.08 (0.03-0.26)	0.34±0.17 <sup>A</sup> (0.16-0.61)	1.38±0.12 (1.29-1.46)
Ammonia-nitrogen (mg/L)	0.06±0.01 (0.05-0.06)	0.25±0.07 <sup>A</sup> (0.13-0.28)	0.48±0.21 <sup>A</sup> (0.29-0.96)	4.72±0.19 (4.58-4.85)

Note: FRP: Fiberglass reinforced plastic; SD: Standard deviation; ND: Not done; A: Exceeding the optimal levels (ICAR 2006)