**Table:** Values of calculated Health Risk Indices for child and adult and protein, omega-3 PUFA and lipid content for each fish species in the studied metals.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Risk indices | Metals | Fish Species | | | | | | | | | | | | | | | |
| Batashi fish | | Chanda fish | | Ghagra fish | | Jatka fish | | Koi fish | | Rani fish | | Tatkini fish | | Tengra fish | |
| Child | Adult | Child | Adult | Child | Adult | Child | Adult | Child | Adult | Child | Adult | Child | Adult | Child | Adult |
| EDI  µg/kg | Cr | - | - | 6.930 | 1.569 | 2.415 | 0.547 | 3.955 | 0.895 | 3.325 | 0.753 | 3.570 | 0.808 | 4.760 | 1.078 | 8.295 | 1.879 |
| Mn | 1.225 | 0.277 | 6.230 | 1.411 | 5.705 | 1.292 | 3.255 | 0.737 | 1.715 | 0.388 | 5.775 | 1.308 | 1.470 | 0.333 | 2.590 | 0.586 |
| Fe | 152.320 | 34.505 | 466.0 | 105.650 | 369.150 | 83.622 | 33.030 | 74.988 | 293.965 | 66.592 | 400.085 | 90.632 | 272.475 | 61.723 | 315.420 | 71.452 |
| Co | 12.215 | 2.767 | 16.695 | 3.781 | 4.445 | 1.006 | 10.675 | 2.418 | 9.380 | 2.124 | 12.320 | 2.791 | 12.635 | 2.862 | 17.955 | 4.067 |
| Cu | 53.165 | 12.043 | 83.825 | 18.988 | 77.560 | 17.569 | 101.150 | 22.910 | 69.370 | 15.714 | 40.180 | 9.102 | 60.025 | 13.597 | 75.565 | 17.117 |
| Zn | 451.890 | 102.366 | 554.085 | 125.520 | 287.880 | 65.212 | 603.855 | 136.791 | 523.145 | 118.510 | 566.615 | 128.356 | 473.690 | 107.305 | 284.445 | 64.435 |
| As | 1.470 | 0.333 | 1.995 | 0.451 | 1.505 | 0.341 | 1.785 | 0.404 | 1.645 | 0.372 | 1.820 | 0.412 | 1.960 | 0.444 | 2.135 | 0.483 |
| Se | 11.235 | 2.545 | 17.90 | 4.043 | 9.765 | 2.212 | 15.365 | 3.481 | 13.965 | 3.163 | 14.525 | 3.290 | 16.695 | 3.782 | 18.795 | 4.257 |
| Cd | 2.520 | 0.570 | 9.770 | 2.212 | 1.855 | 0.420 | 6.160 | 1.395 | 3.045 | 0.689 | 7.385 | 1.673 | 7.595 | 1.720 | 11.025 | 2.497 |
| Hg | 2.415 | 0.547 | 5.250 | 1.189 | 1.925 | 0.436 | 5.985 | 1.355 | 2.660 | 0.602 | 3.255 | 0.737 | 3.430 | 0.777 | 4.340 | 0.983 |
| Pb | 2.030 | 0.459 | 2.730 | 0.618 | 2.730 | 0.618 | 1.610 | 0.364 | 4.130 | 0.935 | 2.135 | 0.483 | 2.205 | 0.499 | 3.395 | 0.769 |
| THQ | Cr | - | - | 0.050 | 0.011 | 0.017 | 0.004 | 0.028 | 0.006 | 0.024 | 0.005 | 0.026 | 0.006 | 0.034 | 0.008 | 0.059 | 0.013 |
| Mn | 0.009 | 0.002 | 0.045 | 0.010 | 0.041 | 0.009 | 0.023 | 0.005 | 0.012 | 0.003 | 0.041 | 0.009 | 0.011 | 0.002 | 0.019 | 0.004 |
| Fe | 0.218 | 0.049 | 0.666 | 0.151 | 0.527 | 0.119 | 0.473 | 0.107 | 0.420 | 0.095 | 0.572 | 0.129 | 0.389 | 0.088 | 0.451 | 0.102 |
| Co | 0.407 | 0.092 | 0.557 | 0.126 | 0.148 | 0.034 | 0.356 | 0.081 | 0.313 | 0.071 | 0.411 | 0.093 | 0.421 | 0.095 | 0.599 | 0.136 |
| Cu | 0.177 | 0.040 | 0.279 | 0.063 | 0.259 | 0.059 | 0.337 | 0.076 | 0.231 | 0.052 | 0.134 | 0.030 | 0.200 | 0.045 | 0.252 | 0.057 |
| Zn | 1.506 | 0.341 | 1.847 | 0.418 | 0.960 | 0.217 | 2.013 | 0.456 | 1.744 | 0.395 | 1.889 | 0.428 | 1.579 | 0.358 | 0.948 | 0.215 |
| As | 0.490 | 0.111 | 0.665 | 0.151 | 0.502 | 0.114 | 0.595 | 0.135 | 0.548 | 0.124 | 0.607 | 0.137 | 0.653 | 0.148 | 0.712 | 0.161 |
| Se | 0.150 | 0.034 | 0.238 | 0.054 | 0.130 | 0.029 | 0.205 | 0.046 | 0.186 | 0.042 | 0.194 | 0.044 | 0.223 | 0.050 | 0.251 | 0.057 |
| Cd | 2.520 | 0.571 | 9.765 | 2.212 | 1.855 | 0.420 | 6.160 | 1.395 | 3.045 | 0.690 | 7.385 | 1.673 | 7.595 | 1.721 | 11.025 | 2.498 |
| Hg | 8.050 | 1.824 | 17.500 | 3.964 | 6.417 | 1.454 | 19.950 | 4.519 | 8.867 | 2.009 | 10.850 | 2.458 | 11.433 | 2.590 | 14.467 | 3.277 |
| Pb | 0.580 | 0.131 | 0.780 | 0.177 | 0.780 | 0.177 | 0.460 | 0.104 | 1.180 | 0.267 | 0.610 | 0.138 | 0.630 | 0.143 | 0.970 | 0.220 |
| HI | | 14.114 | 3.197 | 32.391 | 7.338 | 11.635 | 2.636 | 30.600 | 6.932 | 16.570 | 3.754 | 22.717 | 5.146 | 23.168 | 5.248 | 29.751 | 6.739 |
| CR | Cr | - | - | 3.47E-03 | 7.85E-04 | 1.21E-03 | 2.74E-04 | 1.98E-03 | 4.48E-04 | 1.66E-03 | 3.77E-04 | 1.79E-03 | 4.04E-04 | 2.38E-03 | 5.39E-04 | 4.15E-03 | 9.40E-04 |
| As | 2.21E-03 | 5.00E-04 | 2.99E-03 | 6.77E-04 | 2.26E-03 | 5.10E-04 | 2.68E-03 | 6.06E-04 | 2.47E-03 | 5.58E-04 | 2.73E-03 | 6.18E-04 | 2.94E-03 | 6.66E-04 | 3.20E-03 | 7.25E-04 |
| Cd | 9.58E-04 | 2.17E-04 | 3.71E-03 | 8.41E-04 | 7.05E-04 | 1.60E-04 | 2.34E-03 | 5.30E-04 | 1.16E-03 | 2.62E-04 | 2.81E-03 | 6.35E-04 | 2.89E-03 | 6.54E-04 | 4.19E-03 | 9.49E-04 |
| Pb | 1.73E-05 | 3.90E-06 | 2.32E-05 | 5.25E-06 | 2.32E-05 | 5.25E-06 | 1.37E-05 | 3.09E-06 | 3.51E-05 | 7.95E-06 | 1.81E-05 | 4.11E-06 | 1.87E-05 | 4.24E-06 | 2.89E-05 | 6.54E-06 |
| TCR | | 3.18E-03 | 7.20E-04 | 1.02E-02 | 2.31E-03 | 4.20E-03 | 9.48E-04 | 7.01E-03 | 1.59E-03 | 5.32E-03 | 1.20E-03 | 7.34E-03 | 1.66E-03 | 8.22E-03 | 1.86E-03 | 1.16E-02 | 2.62E-03 |