

**Water Quality Data Monitored by Mizoram State Pollution Control Board**  
**July - September, 2009**

| SI. No. | PARAMETER                                      | RESULT   |  |   |   |  |   |
|---------|--|--|--|---|---|--|---|
|         |  | STATION CODE:<br>2050<br>River Tlawng,<br>Upstream | STATION CODE:<br>2051<br>River Tlawng,<br>Downstream | STATION CODE:<br>2052<br>River Tuirial,<br>Uppercatchment | STATION CODE:<br>2053<br>River Tuirial,<br>Lowercatchment | STATION CODE:<br>2054<br>Ramhlun North Tuikhur<br>( Spring Water ) | STATION CODE:<br>2055<br>Mission Vengthlang<br>Tuikhur (Spring Water) |
| 1       | Velocity of Flow                               | 1 m/s  | 0.8 m/s  | 1.3 m/s   | 1.1 m/s   | N/A  | N/A   |
| 2       | Water Temperature                              | 29°C   | 29.0°C   | 31.0°C  | 31.0°C  | 24.0°C   | 25.0°C  |
| 3       | Dissolved Oxygen                               | 6.7 mg/L   | 6.8 mg/L   | 9.2 mg/L  | 8.5 mg/L  | 5.2 mg/L   | 2.6 mg/L  |
| 4       | pH   | 7.8  | 7.8  | 7.4   | 7.3   | 8.1  | 6.7   |
| 5       | Conductivity                                   | 230 µs/cm  | 238 µs/cm  | 450 µs/cm   | 431 µs/cm   | 114 µs/cm  | 136 µs/cm   |
| 6       | BOD  | 0.8 mg/L   | 0.4 mg/L   | 1.3 mg/L  | 2.4 mg/L  | 2.6 mg/L   | 1.4 mg/L  |
| 7       | Nitrogen-Nitrite<br>(N-NO <sub>2</sub> )       | 0.171 mg/L   | 0.176 mg/L   | 0.189 mg/L  | 0.181 mg/L  | 0.232 mg/L   | 0.187 mg/L  |
| 8       | Total Coliform                                 | 1100 MPN   | 210 MPN  | 75 MPN  | 290 MPN   | 1100 MPN   | 120 MPN   |
| 9       | Faecal Coliform                                | 9.1  | 0.0 MPN  | 15 MPN  | 53 MPN  | 11 MPN   | 3.6 MPN   |
| 10      | Turbidity                                      | 3.8 NTU  | 3.1 NTU  | 24 NTU  | 12 NTU  | 0.00 NTU   | 0.05 NTU  |
| 11      | Carbonate as CaCO <sub>3</sub><br>(Alkalinity) | 46 mg/L  | 48.0 mg/L  | 72.4 mg/L   | 76.5 mg/L   | 24.8 mg/L  | 80.6 mg/L   |
| 12      | Chloride                                       | 9.6 mg/L   | 6.7 mg/L   | 11.5 mg/L   | 9.6 mg/L  | 60.7 mg/L  | 63.6 mg/L   |
| 13      | Nitrogen Ammonia<br>(N-NH <sub>3</sub> )       | 1.083 mg/L   | 1.318 mg/L   | 0.653 mg/L  | 0.277 mg/L  | 0.041 mg/L   | 1.25 mg/L   |
| 14      | Total hardness as<br>CaCO <sub>3</sub>         | 38 mg/L  | 40 mg/l  | 66 mg/l   | 48mg/l  | 88 mg/l  | 130 mg/l  |
| 15      | Calcium  | 8.0 mg/L   | 8.0 mg/L   | 12 mg/L   | 12 mg/L   | 18.4 mg/L  | 28.0 mg/L   |
| 16      | Magnesium                                      | 4.3 mg/L   | 4.8 mg/L   | 8.6 mg/L  | 4.3 mg/L  | 10.0 mg/L  | 14.4 mg/L   |
| 17      | Sodium   | 34 mg/L  | 34 mg/L  | 48.5 mg/L   | 28.5 mg/L   | 60.5 mg/L  | 99 mg/L   |
| 18      | TDS  | 180 mg/L   | 160 mg/L   | 220 mg/L  | 190 mg/L  | 110 mg/L   | 120 mg/L  |
| 19      | TSS  | 120 mg/L   | 190 mg/L   | 160 mg/L  | 150 mg/L  | 100 mg/L   | 60 mg/L   |
| 20      | Phosphate, PO <sub>4</sub> <sup>3-</sup>       | 0.562 mg/L   | 0.528 mg/L   | 0.200 mg/L  | 0.159 mg/L  | 0.114 mg/L   | 0.490 mg/L  |