

**KATHMANDU UPATYAKA KHANEPANI LIMITED**  
**Water / Waste Water Quality Assurance Division , Mahankalchaur**  
**Laboratory Record Of Chemical & Bacteriological Analysis Of Water**  
**Falgun 2077**

| S.No.   | Date       | Branch          | Location          | Sample taken | Turbidity | Colour | P <sup>H</sup> | E.C.  | Total Alkalinity | PPH Alkalinity | Total Hardness | Total Iron | Total Ammonia | Chloride | F.R.C.  | Total Coliforms  | Remarks      |
|---|------------|-----------------|-------------------|--------------|-----------|--------|----------------|-------|------------------|----------------|----------------|------------|---------------|----------|---------|------------------|--------------|
| <b>Units</b>  |            |                 |                   |              | (NTU)     | (TCU)  |                | µs/cm | mg/l             | mg/l           | mg/l           | mg/l       | mg/l          | mg/l     | mg/l    | /100ml           |              |
| <b>National Drinking Water Quality Standard (NDWQS)</b> |            |                 |                   |              | 5 (10)    | 5 (15) | 6.5-8.5        | 1500  |                  |                | 500            | 0.3 (3)    | 1.5           | 250      | 0.1-0.2 | 0 in 95% Samples |              |
| 1   | 2077/11/01 | Maharajgunj     | Bansbari W.T.P    | Treated      | Clear/<5  | <5     | 7.2            | 81    | 26               | Nil            | 22             | 0.1        | 0.02          | 5.76     | 0.2     | 0                | Satisfactory |
| 2   | 2077/11/02 | Lalitpur        | Sainbu W.T.P.     | Treated      | Clear/<5  | <5     | 7.8            | 346   | 98               | Nil            | 118            | 0.1        | 0.02          | 7.68     | 0.6     | 0                | Satisfactory |
| 3   | 2077/11/02 | Maharajgunj     | Bansbari W.T.P    | Treated      | Clear/<5  | <5     | 7.2            | 79    | 26               | Nil            | 22             | 0.1        | 0.02          | 5.76     | 0.3     | 0                | Satisfactory |
| 4   | 2077/11/02 | MahankalChaur   | MahankalChaur WTP | Treated      | Clear/<5  | <5     | 6.8            | 52    | 16               | Nil            | 12             | 0.1        | 0.02          | 5.76     | 0.3     | 0                | Satisfactory |
| 5   | 2077/11/02 | Madhyapur Thimi | Bode WTP          | Treated      | Clear/<5  | <5     | 7.1            | 249   | 58               | Nil            | 46             | 0.3        | 1.6           | 7.68     | 0.0     | 0                | Satisfactory |
| 6   | 2077/11/03 | Maharajgunj     | Bansbari W.T.P    | Treated      | Clear/<5  | <5     | 7.2            | 84    | 28               | Nil            | 22             | 0.1        | 0.02          | 5.76     | 0.4     | 0                | Satisfactory |
| 7   | 2077/11/03 | MahankalChaur   | MahankalChaur WTP | Treated      | Clear/<5  | <5     | 6.8            | 48    | 16               | Nil            | 14             | 0.1        | 0.02          | 3.84     | 0.6     | 0                | Satisfactory |
| 8   | 2077/11/04 | Lalitpur        | Sainbu W.T.P.     | Treated      | Clear/<5  | <5     | 7.9            | 332   | 94               | Nil            | 116            | 0.1        | 0.02          | 5.76     | 0.5     | 0                | Satisfactory |
| 9   | 2077/11/04 | Maharajgunj     | Bansbari W.T.P    | Treated      | Clear/<5  | <5     | 7.2            | 78    | 26               | Nil            | 22             | 0.1        | 0.02          | 5.76     | 0.5     | 0                | Satisfactory |
| 10  | 2077/11/04 | MahankalChaur   | MahankalChaur WTP | Treated      | Clear/<5  | <5     | 6.9            | 55    | 16               | Nil            | 14             | 0.1        | 0.02          | 5.76     | 0.4     | 0                | Satisfactory |
| 11  | 2077/11/04 | Madhyapur Thimi | Bode WTP          | Treated      | Clear/<5  | <5     | 7.1            | 252   | 60               | Nil            | 46             | 0.3        | 1.7           | 9.6      | 0.0     | 0                | Satisfactory |
| 12  | 2077/11/05 | Lalitpur        | Sainbu W.T.P.     | Treated      | Clear/<5  | <5     | 8.1            | 324   | 96               | Nil            | 116            | 0.1        | 0.02          | 5.76     | 0.4     | 0                | Satisfactory |
| 13  | 2077/11/05 | Maharajgunj     | Bansbari W.T.P    | Treated      | Clear/<5  | <5     | 7.2            | 83    | 26               | Nil            | 22             | 0.1        | 0.02          | 5.76     | 0.5     | 0                | Satisfactory |
| 14  | 2077/11/05 | MahankalChaur   | MahankalChaur WTP | Treated      | Clear/<5  | <5     | 6.6            | 57    | 14               | Nil            | 14             | 0.1        | 0.02          | 7.68     | 0.3     | 0                | Satisfactory |
| 15  | 2077/11/05 | Madhyapur Thimi | Bode WTP          | Treated      | Clear/<5  | <5     | 6.9            | 254   | 60               | Nil            | 50             | 0.3        | 1.7           | 7.68     | 0.0     | 0                | Satisfactory |
| 16  | 2077/11/06 | Maharajgunj     | Bansbari W.T.P    | Treated      | Clear/<5  | <5     | 7.2            | 86    | 30               | Nil            | 24             | 0.1        | 0.02          | 5.76     | 0.5     | 0                | Satisfactory |
| 17  | 2077/11/06 | MahankalChaur   | MahankalChaur WTP | Treated      | Clear/<5  | <5     | 6.8            | 49    | 16               | Nil            | 12             | 0.1        | 0.02          | 7.68     | 0.8     | 0                | Satisfactory |
| 18  | 2077/11/06 | Madhyapur Thimi | Bode WTP          | Treated      | Clear/<5  | <5     | 7.1            | 262   | 62               | Nil            | 54             | 0.3        | 1.6           | 19.2     | 0.4     | 0                | Satisfactory |
| 19  | 2077/11/07 | Maharajgunj     | Bansbari W.T.P    | Treated      | Clear/<5  | <5     | 7.2            | 90    | 34               | Nil            | 28             | 0.1        | 0.02          | 5.76     | 0.5     | 0                | Satisfactory |
| 20  | 2077/11/07 | MahankalChaur   | MahankalChaur WTP | Treated      | Clear/<5  | <5     | 6.8            | 45    | 16               | Nil            | 12             | 0.1        | 0.02          | 5.76     | 0.3     | 0                | Satisfactory |
| 21  | 2077/11/07 | Madhyapur Thimi | Bode WTP          | Treated      | Clear/<5  | <5     | 7.1            | 258   | 60               | Nil            | 50             | 0.3        | 1.6           | 11.52    | 0.1     | 0                | Satisfactory |
| 22  | 2077/11/08 | Maharajgunj     | Bansbari W.T.P    | Treated      | Clear/<5  | <5     | 7.2            | 88    | 32               | Nil            | 24             | 0.1        | 0.02          | 5.76     | 0.5     | 0                | Satisfactory |
| 23  | 2077/11/09 | Lalitpur        | Sainbu W.T.P.     | Treated      | Clear/<5  | <5     | 7.7            | 343   | 98               | Nil            | 118            | 0.1        | 0.02          | 5.76     | 0.7     | 0                | Satisfactory |
| 24  | 2077/11/09 | Maharajgunj     | Bansbari W.T.P    | Treated      | Clear/<5  | <5     | 7.2            | 91    | 34               | Nil            | 26             | 0.1        | 0.02          | 5.76     | 0.5     | 0                | Satisfactory |
| 25  | 2077/11/09 | MahankalChaur   | MahankalChaur WTP | Treated      | Clear/<5  | <5     | 7.9            | 71    | 24               | Nil            | 14             | 0.1        | 0.02          | 9.6      | 0.7     | 0                | Satisfactory |
| 26  | 2077/11/09 | Madhyapur Thimi | Bode WTP          | Treated      | Clear/<5  | <5     | 6.9            | 260   | 60               | Nil            | 50             | 0.3        | 1.6           | 13.44    | 0.1     | 0                | Satisfactory |
| 27  | 2077/11/10 | Lalitpur        | Sainbu W.T.P.     | Treated      | Clear/<5  | <5     | 7.8            | 345   | 98               | Nil            | 122            | 0.1        | 0.02          | 5.76     | 0.6     | 0                | Satisfactory |
| 28  | 2077/11/10 | Maharajgunj     | Bansbari W.T.P    | Treated      | Clear/<5  | <5     | 7.2            | 92    | 34               | Nil            | 26             | 0.1        | 0.02          | 5.76     | 0.5     | 0                | Satisfactory |

|    |            |                 |                   |         |          |    |     |     |     |     |     |     |      |       |     |   |              |
|----|------------|-----------------|-------------------|---------|----------|----|-----|-----|-----|-----|-----|-----|------|-------|-----|---|--------------|
| 29 | 2077/11/10 | MahankalChaur   | MahankalChaur WTP | Treated | Clear/<5 | <5 | 7.1 | 56  | 20  | Nil | 12  | 0.1 | 0.02 | 5.76  | 0.1 | 0 | Satisfactory |
| 30 | 2077/11/10 | Madhyapur Thimi | Bode WTP          | Treated | Clear/<5 | <5 | 7.1 | 261 | 60  | Nil | 52  | 0.3 | 1.6  | 9.6   | 0.2 | 0 | Satisfactory |
| 31 | 2077/11/11 | Lalitpur        | Sainbu W.T.P.     | Treated | Clear/<5 | <5 | 7.8 | 357 | 106 | Nil | 120 | 0.1 | 0.02 | 7.68  | 0.7 | 0 | Satisfactory |
| 32 | 2077/11/11 | Maharajgunj     | Bansbari W.T.P    | Treated | Clear/<5 | <5 | 7.1 | 93  | 32  | Nil | 24  | 0.1 | 0.02 | 5.76  | 0.4 | 0 | Satisfactory |
| 33 | 2077/11/11 | MahankalChaur   | MahankalChaur WTP | Treated | Clear/<5 | <5 | 7.1 | 77  | 18  | Nil | 14  | 0.1 | 0.02 | 5.76  | 0.3 | 0 | Satisfactory |
| 34 | 2077/11/11 | Madhyapur Thimi | Bode WTP          | Treated | Clear/<5 | <5 | 6.9 | 244 | 66  | Nil | 56  | 0.3 | 1.6  | 19.2  | 0.8 | 0 | Satisfactory |
| 35 | 2077/11/12 | Maharajgunj     | Bansbari W.T.P    | Treated | Clear/<5 | <5 | 7.1 | 87  | 30  | Nil | 24  | 0.1 | 0.02 | 5.76  | 0.4 | 0 | Satisfactory |
| 36 | 2077/11/12 | MahankalChaur   | MahankalChaur WTP | Treated | Clear/<5 | <5 | 7.1 | 56  | 18  | Nil | 14  | 0.1 | 0.02 | 5.76  | 0.5 | 0 | Satisfactory |
| 37 | 2077/11/13 | Maharajgunj     | Bansbari W.T.P    | Treated | Clear/<5 | <5 | 7.1 | 90  | 32  | Nil | 24  | 0.1 | 0.02 | 5.76  | 0.4 | 0 | Satisfactory |
| 38 | 2077/11/13 | MahankalChaur   | MahankalChaur WTP | Treated | Clear/<5 | <5 | 7.1 | 47  | 18  | Nil | 12  | 0.1 | 0.02 | 5.76  | 0.6 | 0 | Satisfactory |
| 39 | 2077/11/13 | Madhyapur Thimi | Bode WTP          | Treated | Clear/<5 | <5 | 7.1 | 264 | 62  | Nil | 50  | 0.3 | 1.6  | 15.36 | 0.2 | 0 | Satisfactory |
| 40 | 2077/11/14 | Lalitpur        | Sainbu W.T.P.     | Treated | Clear/<5 | <5 | 7.7 | 339 | 92  | Nil | 116 | 0.1 | 0.02 | 5.76  | 0.6 | 0 | Satisfactory |
| 41 | 2077/11/14 | Maharajgunj     | Bansbari W.T.P    | Treated | Clear/<5 | <5 | 7.1 | 94  | 34  | Nil | 26  | 0.1 | 0.02 | 5.76  | 0.5 | 0 | Satisfactory |
| 42 | 2077/11/14 | MahankalChaur   | MahankalChaur WTP | Treated | Clear/<5 | <5 | 6.7 | 49  | 14  | Nil | 16  | 0.1 | 0.02 | 5.76  | 0.2 | 0 | Satisfactory |
| 43 | 2077/11/14 | Madhyapur Thimi | Bode WTP          | Treated | Clear/<5 | <5 | 7.1 | 259 | 60  | Nil | 48  | 0.3 | 1.6  | 15.36 | 0.2 | 0 | Satisfactory |
| 44 | 2077/11/15 | Maharajgunj     | Bansbari W.T.P    | Treated | Clear/<5 | <5 | 7.1 | 92  | 34  | Nil | 26  | 0.1 | 0.02 | 5.76  | 0.5 | 0 | Satisfactory |
| 45 | 2077/11/16 | Lalitpur        | Sainbu W.T.P.     | Treated | Clear/<5 | <5 | 7.9 | 353 | 102 | Nil | 124 | 0.1 | 0.02 | 7.68  | 0.5 | 0 | Satisfactory |
| 46 | 2077/11/16 | Maharajgunj     | Bansbari W.T.P    | Treated | Clear/<5 | <5 | 7.1 | 93  | 34  | Nil | 26  | 0.1 | 0.02 | 5.76  | 0.5 | 0 | Satisfactory |
| 47 | 2077/11/16 | MahankalChaur   | MahankalChaur WTP | Treated | Clear/5  | <5 | 6.9 | 53  | 14  | Nil | 16  | 0.1 | 0.02 | 5.46  | 0.2 | 0 | Satisfactory |
| 48 | 2077/11/16 | Madhyapur Thimi | Bode WTP          | Treated | Clear/<5 | <5 | 7.1 | 249 | 58  | Nil | 44  | 0.3 | 1.6  | 9.6   | 0.0 | 0 | Satisfactory |
| 49 | 2077/11/17 | Lalitpur        | Sainbu W.T.P.     | Treated | Clear/<5 | <5 | 7.6 | 348 | 98  | Nil | 118 | 0.1 | 0.02 | 7.68  | 0.6 | 0 | Satisfactory |
| 50 | 2077/11/17 | Maharajgunj     | Bansbari W.T.P    | Treated | Clear/<5 | <5 | 7.1 | 94  | 34  | Nil | 26  | 0.1 | 0.02 | 5.76  | 0.5 | 0 | Satisfactory |
| 51 | 2077/11/17 | MahankalChaur   | MahankalChaur WTP | Treated | Clear/7  | <5 | 6.6 | 53  | 16  | Nil | 14  | 0.1 | 0.02 | 5.76  | 0.3 | 0 | Satisfactory |
| 52 | 2077/11/18 | Maharajgunj     | Bansbari W.T.P    | Treated | Clear/<5 | <5 | 7.1 | 92  | 34  | Nil | 26  | 0.1 | 0.02 | 5.76  | 0.5 | 0 | Satisfactory |
| 53 | 2077/11/18 | MahankalChaur   | MahankalChaur WTP | Treated | Clear/<5 | <5 | 7.1 | 55  | 18  | Nil | 12  | 0.1 | 0.02 | 5.76  | 0.7 | 0 | Satisfactory |
| 54 | 2077/11/18 | Madhyapur Thimi | Bode WTP          | Treated | Clear/<5 | <5 | 6.6 | 258 | 62  | Nil | 46  | 0.3 | 1.6  | 9.6   | 0.0 | 0 | Satisfactory |
| 55 | 2077/11/19 | Maharajgunj     | Bansbari W.T.P    | Treated | Clear/<5 | <5 | 7.1 | 107 | 38  | Nil | 28  | 0.1 | 0.02 | 7.68  | 0.5 | 0 | Satisfactory |
| 56 | 2077/11/19 | MahankalChaur   | MahankalChaur WTP | Treated | Clear/<5 | <5 | 6.8 | 67  | 18  | Nil | 22  | 0.1 | 0.02 | 7.68  | 0.1 | 0 | Satisfactory |
| 57 | 2077/11/19 | Madhyapur Thimi | Bode WTP          | Treated | Clear/<5 | <5 | 6.9 | 256 | 62  | Nil | 46  | 0.3 | 1.6  | 13.44 | 0.0 | 0 | Satisfactory |
| 58 | 2077/11/20 | Lalitpur        | Sainbu W.T.P.     | Treated | Clear/<5 | <5 | 7.9 | 339 | 96  | Nil | 122 | 0.1 | 0.02 | 5.76  | 0.5 | 0 | Satisfactory |
| 59 | 2077/11/20 | Maharajgunj     | Bansbari W.T.P    | Treated | Clear/<5 | <5 | 7.1 | 98  | 36  | Nil | 26  | 0.1 | 0.02 | 5.76  | 0.5 | 0 | Satisfactory |
| 60 | 2077/11/20 | MahankalChaur   | MahankalChaur WTP | Treated | Clear/<5 | <5 | 7.1 | 46  | 14  | Nil | 16  | 0.1 | 0.02 | 5.76  | 0.3 | 0 | Satisfactory |
| 61 | 2077/11/20 | Madhyapur Thimi | Bode WTP          | Treated | Clear/<5 | <5 | 6.9 | 252 | 60  | Nil | 46  | 0.3 | 1.6  | 11.52 | 0.0 | 0 | Satisfactory |
| 62 | 2077/11/21 | Maharajgunj     | Bansbari W.T.P    | Treated | Clear/<5 | <5 | 7.1 | 101 | 38  | Nil | 28  | 0.1 | 0.02 | 7.68  | 0.4 | 0 | Satisfactory |
| 63 | 2077/11/21 | MahankalChaur   | MahankalChaur WTP | Treated | Clear/<5 | <5 | 6.7 | 48  | 12  | Nil | 16  | 0.1 | 0.02 | 5.76  | 0.8 | 0 | Satisfactory |
| 64 | 2077/11/21 | Madhyapur Thimi | Bode WTP          | Treated | Clear/<5 | <5 | 6.8 | 258 | 62  | Nil | 48  | 0.3 | 1.6  | 9.6   | 0.2 | 0 | Satisfactory |
| 65 | 2077/11/22 | Maharajgunj     | Bansbari W.T.P    | Treated | Clear/<5 | <5 | 7.1 | 104 | 38  | Nil | 28  | 0.1 | 0.02 | 5.76  | 0.4 | 0 | Satisfactory |
| 66 | 2077/11/23 | Lalitpur        | Sainbu W.T.P.     | Treated | Clear/<5 | <5 | 7.8 | 356 | 100 | Nil | 124 | 0.1 | 0.02 | 7.68  | 0.8 | 0 | Satisfactory |
| 67 | 2077/11/23 | Maharajgunj     | Bansbari W.T.P    | Treated | Clear/<5 | <5 | 7.1 | 99  | 34  | Nil | 26  | 0.1 | 0.02 | 5.76  | 0.4 | 0 | Satisfactory |
| 68 | 2077/11/23 | MahankalChaur   | MahankalChaur WTP | Treated | Clear/<5 | <5 | 6.8 | 74  | 18  | Nil | 16  | 0.1 | 0.02 | 7.68  | 0.8 | 0 | Satisfactory |

|    |            |                 |                   |         |          |    |     |     |    |     |     |     |      |       |     |   |              |
|----|------------|-----------------|-------------------|---------|----------|----|-----|-----|----|-----|-----|-----|------|-------|-----|---|--------------|
| 69 | 2077/11/23 | Madhyapur Thimi | Bode WTP          | Treated | Clear/<5 | <5 | 6.9 | 261 | 60 | Nil | 58  | 0.3 | 1.6  | 19.2  | 0.3 | 0 | Satisfactory |
| 70 | 2077/11/24 | Maharajgunj     | Bansbari W.T.P    | Treated | Clear/<5 | <5 | 7.1 | 96  | 34 | Nil | 26  | 0.1 | 0.02 | 5.76  | 0.4 | 0 | Satisfactory |
| 71 | 2077/11/25 | Lalitpur        | Sainbu W.T.P.     | Treated | Clear/<5 | <5 | 8.0 | 330 | 96 | Nil | 118 | 0.1 | 0.02 | 5.76  | 0.8 | 0 | Satisfactory |
| 72 | 2077/11/25 | Maharajgunj     | Bansbari W.T.P    | Treated | Clear/<5 | <5 | 7.1 | 98  | 34 | Nil | 26  | 0.1 | 0.02 | 5.76  | 0.5 | 0 | Satisfactory |
| 73 | 2077/11/25 | MahankalChaur   | MahankalChaur WTP | Treated | Clear/<5 | <5 | 6.7 | 54  | 18 | Nil | 14  | 0.1 | 0.02 | 5.76  | 0.1 | 0 | Satisfactory |
| 74 | 2077/11/25 | Madhyapur Thimi | Bode WTP          | Treated | Clear/<5 | <5 | 6.9 | 274 | 64 | Nil | 60  | 0.3 | 1.6  | 19.2  | 0.5 | 0 | Satisfactory |
| 75 | 2077/11/26 | Lalitpur        | Sainbu W.T.P.     | Treated | Clear/<5 | <5 | 7.8 | 343 | 98 | Nil | 126 | 0.1 | 0.02 | 5.76  | 0.6 | 0 | Satisfactory |
| 76 | 2077/11/26 | Maharajgunj     | Bansbari W.T.P    | Treated | Clear/<5 | <5 | 7.1 | 98  | 34 | Nil | 26  | 0.1 | 0.02 | 5.76  | 0.3 | 0 | Satisfactory |
| 77 | 2077/11/26 | MahankalChaur   | MahankalChaur WTP | Treated | Clear/<5 | <5 | 7.1 | 45  | 12 | Nil | 10  | 0.1 | 0.02 | 5.76  | 0.4 | 0 | Satisfactory |
| 78 | 2077/11/26 | Madhyapur Thimi | Bode WTP          | Treated | Clear/6  | <5 | 6.9 | 259 | 60 | Nil | 54  | 0.3 | 1.6  | 11.52 | 0.1 | 0 | Satisfactory |
| 79 | 2077/11/27 | Maharajgunj     | Bansbari W.T.P    | Treated | Clear/<5 | <5 | 7.1 | 96  | 34 | Nil | 26  | 0.1 | 0.02 | 5.76  | 0.2 | 0 | Satisfactory |
| 80 | 2077/11/28 | Lalitpur        | Sainbu W.T.P.     | Treated | Clear/<5 | <5 | 7.9 | 346 | 92 | Nil | 122 | 0.1 | 0.02 | 5.76  | 0.8 | 0 | Satisfactory |
| 81 | 2077/11/28 | Maharajgunj     | Bansbari W.T.P    | Treated | Clear/<5 | <5 | 7.1 | 94  | 34 | Nil | 26  | 0.1 | 0.02 | 5.76  | 0.4 | 0 | Satisfactory |
| 82 | 2077/11/28 | MahankalChaur   | MahankalChaur WTP | Treated | Clear/9  | <5 | 6.9 | 80  | 18 | Nil | 24  | 0.2 | 0.02 | 7.68  | 0.6 | 0 | Satisfactory |
| 83 | 2077/11/28 | Madhyapur Thimi | Bode WTP          | Treated | Clear/<5 | <5 | 6.9 | 252 | 58 | Nil | 50  | 0.3 | 1.7  | 9.6   | 0.0 | 0 | Satisfactory |
| 84 | 2077/11/29 | Maharajgunj     | Bansbari W.T.P    | Treated | Clear/<5 | <5 | 7.1 | 96  | 34 | Nil | 26  | 0.1 | 0.02 | 5.76  | 0.6 | 0 | Satisfactory |