



**GOVERNMENT OF NAGALAND
PUBLIC HEALTH ENGINEERING DEPARTMENT
NAGALAND: KOHIMA**

ANALYSIS REPORT OF GROUNDWATER QUALITY

Report No. I.....

Dated...th 18 Feb 20

1. Source Details

| Sl.No | Details | |
|-------|---|---|
| 1. | Place/Source of Sampling | KENDRIYA VIDYALAYA JAKHAMA |
| 2. | Name of Village/Habitation | JAKHAMA |
| 3. | Location in Latitude & Longitude | |
| 4. | Name of RD Block | JAKHAMA |
| 5. | Name of District | KOHIMA |
| 6. | Type of Source/Structure (underline whichever is applicable) | Tube well/Bore well/Dug well/Spring/Surface water etc |
| 7. | Date & Time of Sampling | |
| 8. | Date of Analysis | 18 th Feb 20 |
| 9. | Sampler (Name & Designation) | |

2. WATER QUALITY TEST RESULTS(Physical & Chemical Analysis)

| Sl.No | Parameters | Potable | | Non-Potable | Test Result |
|-------|---|-----------------|-------------------|-------------|-----------------|
| | | Desirable limit | Permissible limit | | |
| 1 | Colour | 5Hz | 25 Hz | >25 Hz | Colourless |
| 2 | Odour | Unobjectionable | Unobjectionable | | unobjectionable |
| 3 | Turbidity | 5NTU | 10NTU | >10NTU | 0.7 |
| 4 | pH | 6.5-8.5 | No relaxation | <6.5;>8.5 | 7.5 |
| 5 | Total Hardness(as CaCO ₃)mg/l | 300mg/l | 300-600 | >600 | 59.4 |
| 6 | Iron(as Fe) mg/l | 0.3mg/l | 0.3-1.0 | >1.0 | 0.02 |
| 7 | Chlorides(as Cl) mg/l | 250mg/l | 250-1000 | >1000 | 12.6 |
| 8 | Total Dissolved solids mg/l | 500 mg/l | 500-2000 | >2000 | 160 |
| 9 | Calcium(as Ca) mg/l | 75 mg/l | 75-200 | >200 | 23.4 |
| 10 | Magnesium(as Mg) mg/l | 30mg/l | 30-100 | >100 | 1.6 |
| 11 | Nitrate(as NO ₃) mg/l | 45mg/l | 45-100 | >100 | |
| 12 | Sulphate(as SO ₄) mg/l | 200mg/l | 200-400 | >400 | |
| 13 | Fluoride(as F) mg/l | 1.0mg/l | 1.0-1.5 | >1.5 | |
| 14 | Total Alkalinity | 200mg/l | 200-600 | >600 | |
| 15 | Arsenic(as As) mg/l | 0.05 | No relaxation | >0.05 | |
| 16 | Bacteriological Test | | | | Negative. |

(Source: Indian Drinking Water Standards as per BIS Guideline-IS: 10500:2004)

REMARKS: Good.

(Signature of the Chemist)