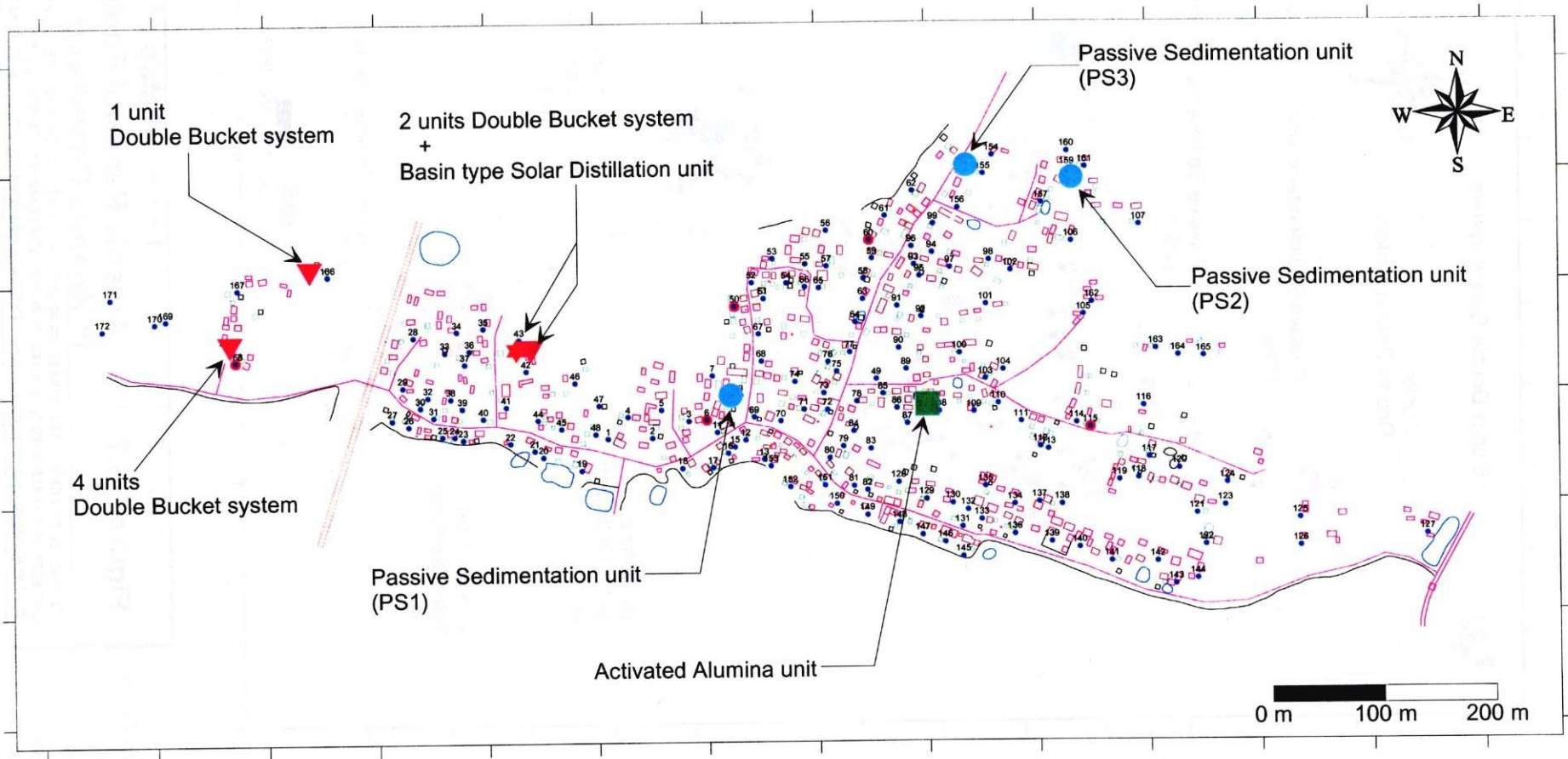
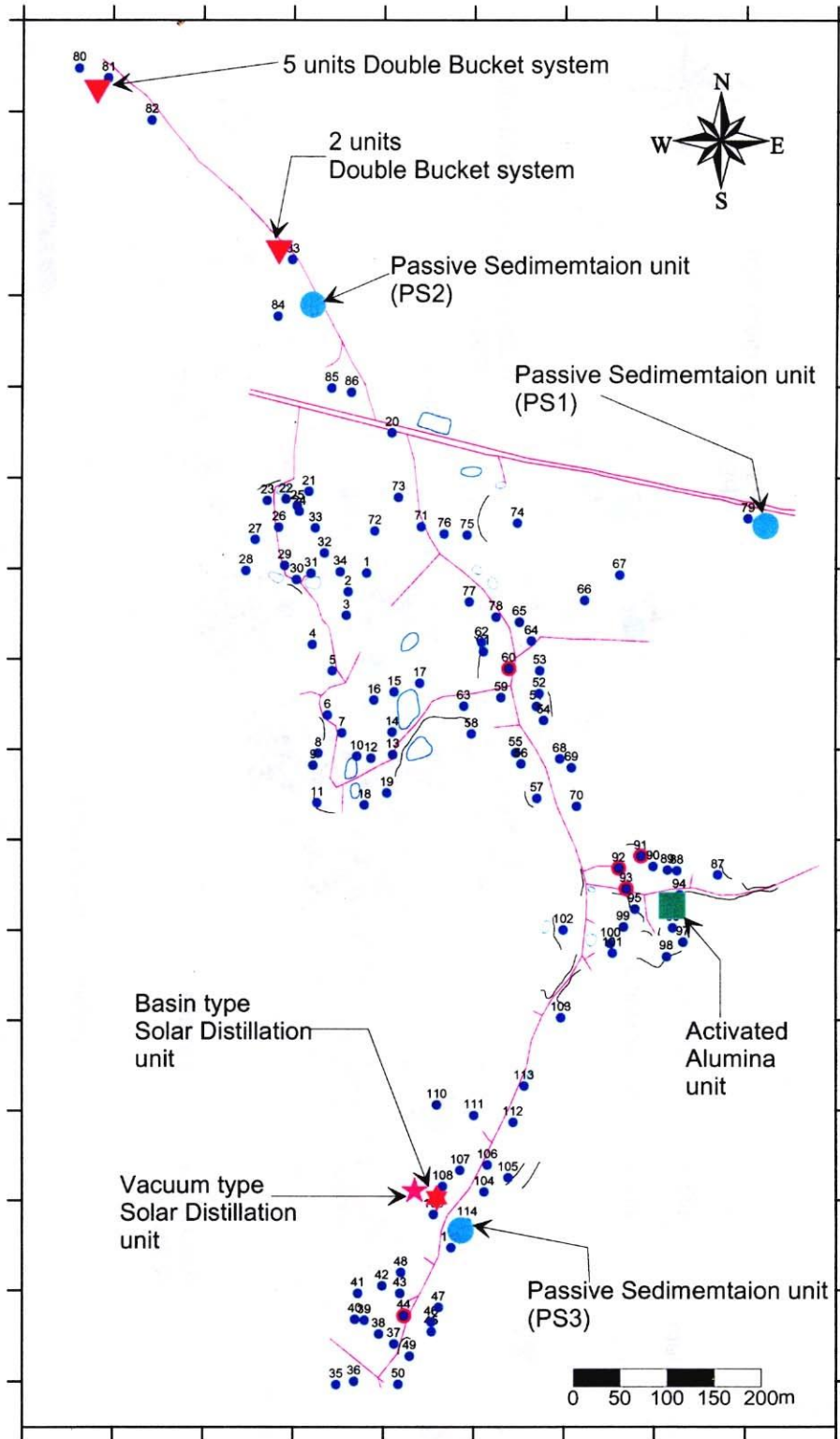


1.3 Arsenic Removal Equipment



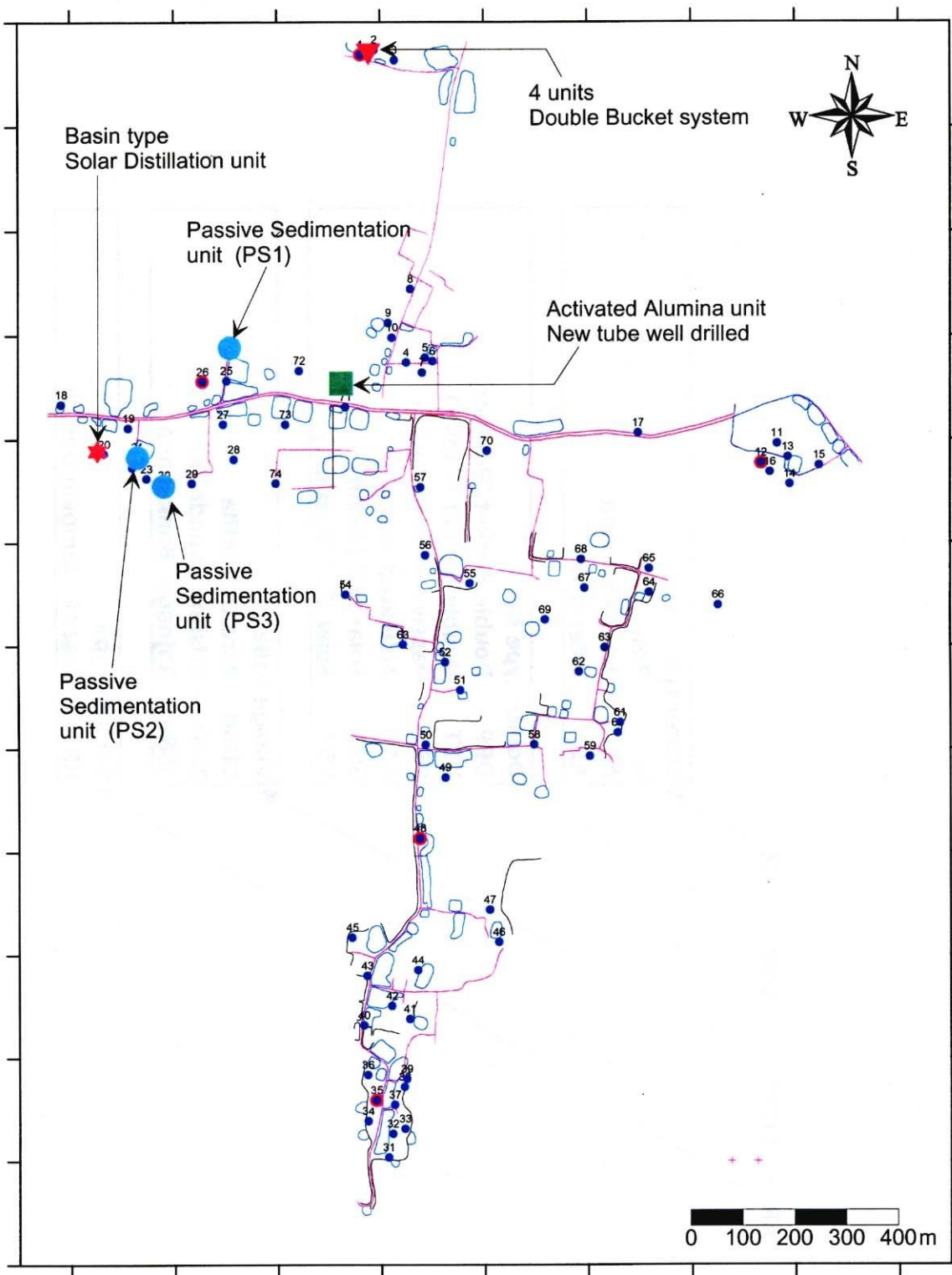
- 172 ● Existing Well with TW No.
- Existing Well where General Water Quality Sample Collected

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Figure 1.3.1 | Location Map of Arsenic Removal Equipment in Bara Dudpatila Village |
| THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS IN WESTERN BANGLADESH | |
| JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | |



- 115
● Existing Well with TW No.
- Existing Well where General Water Quality Sample Collected

| | |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Figure 1.3.2 | Location Map of Arsenic Removal Equipment in Krishna Chandrapur Village |
| THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS IN WESTERN BANGLADESH | |
| JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | |



- 74 Existing Well with TW No.
- Existing Well where General Water Quality Sample Collected

Figure 1.3.3

Location Map of Arsenic Removal Equipment in Rajnagar Bankabarsi Village

THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS IN WESTERN BANGLADESH

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

Sample Code

AR - CDBd - DBP - R

Water type

R Row water
AF After Filtration
AD After Distill

Device type No.

DBP Double Bucket (Powder)
DBT Double Bucket (Tablet)
PS Passive Sedimentation
AA Activated Alumina
SSB Solar Still (Basin)
SSV Solar Still (Vacuum)

Village code

CDBd Bara Dudpatila
JHKc Krishna Chandrapur
JSRb Rajnagar Bankabarsi

Sample Type

AR Arsenic Removal Device

Table 1.3.1 Results of Arsenic Removal Equipment (Double Bucket System)(1/3)

| Well | Date | EC (mS/m) | pH | ORP (Eh) | Fe2+(FK) | As by FK(mg/l) | As by AAS(mg/l) |
|------------------------|-----------|-----------|------|----------|----------|----------------|-----------------|
| Bakabarsi | | | | | | | |
| DBP1 | | | | | | | |
| AR-JSRb-DBP1-R | 15-Dec-00 | 266 | 7.15 | 122 | 2.0 | 0.10 | 0.40 |
| AR-JSRb-DBP1-AF | 15-Dec-00 | 266 | 7.25 | 321 | 0.0 | 0.00 | 0.36 |
| AR-JSRb-DBP1-R | 27-Jan-01 | 272 | 7.14 | 137 | 5.0 | 0.90 | 0.43 |
| AR-JSRb-DBP1-AF(SP-1) | 27-Jan-01 | 270 | 7.18 | 118 | 0.2 | 0.20 | 0.19 |
| AR-JSRb-DBP1-AF(SP-3) | 27-Jan-01 | 290 | 6.69 | 307 | 0.0 | 0.06 | 0.042 |
| AR-JSRb-DBP1-R | 06-Feb-01 | 253 | 7.22 | 107 | 2.0 | 0.80 | 0.32 |
| AR-JSRb-DBP1-AF | 06-Feb-01 | 283 | 6.80 | 295 | 0.0 | 0.03 | 0.078 |
| AR-JSRb-DBP1-R | 04-Mar-01 | 264 | 7.18 | 148 | 4.0 | 0.20 | 0.54 |
| AR-JSRb-DBP1-AF-(SP-1) | 04-Mar-01 | 269 | 7.04 | 320 | 0.5 | 0.06 | 0.22 |
| AR-JSRb-DBP1-AF(SP-2) | 04-Mar-01 | 277 | 6.81 | 333 | 1.0 | 0.08 | 0.28 |
| AR-JSRb-DBP1-AF | 30-Apr-01 | 260 | 7.12 | 102 | 4.0 | 0.90 | 0.25 |
| AR-JSRb-DBP1-R | 30-Apr-01 | 267 | 7.09 | 250 | 0.2 | 0.50 | 0.21 |
| DBP2 | | | | | | | |
| AR-JSRb-DBP2-R | 15-Dec-00 | 265 | 7.14 | 120 | 2.0 | 0.80 | 0.42 |
| AR-JSRb-DBP2-AF | 15-Dec-00 | 268 | 7.14 | 319 | 0.0 | 0.03 | 0.41 |
| AR-JSRb-DBP2-R | 26-Jan-01 | 273 | 7.11 | 131 | 5.0 | 0.30 | 0.36 |
| AR-JSRb-DBP2-AF(SP-2) | 26-Jan-01 | 280 | 6.73 | 273 | 0.0 | 0.05 | 0.018 |
| AR-JSRb-DBP2-R | 06-Feb-01 | 252 | 7.25 | 130 | 2.0 | 1.00 | 0.29 |
| AR-JSRb-DBP2-AF | 06-Feb-01 | 291 | 6.73 | 296 | 0.0 | 0.00 | 0.040 |
| AR-JSRb-DBP2-AF | 30-Apr-01 | 273 | 6.83 | 262 | 0.2 | 0.60 | 0.17 |

Table 1.3.1 Results of Arsenic Removal Equipment (Double Bucket System)(2/3)

| Well | Date | EC (mS/m) | pH | ORP (Eh) | Fe2+(FK) | As by FK(mg/l) | As by AAS(mg/l) |
|----------------------|-----------|-----------|------|----------|----------|----------------|-----------------|
| Chandrapur | | | | | | | |
| DBP1 | | | | | | | |
| AR-JHKc-DBP1-R | 16-Dec-00 | 89.2 | 7.13 | 164 | 5 | 1.00 | 0.29 |
| AR-JHKc-DBP1-AF | 16-Dec-00 | 93.3 | 7.04 | 167 | 0 | 0.20 | 0.13 |
| AR-JHKc-DBP1-R | 03-Feb-01 | 92.8 | 7.08 | NA | 5.0 | 0.20 | 0.21 |
| AR-JHKc-DBP1-AF | 03-Feb-01 | 91.0 | 6.98 | NA | 1.0 | 0.00 | 0.15 |
| AR-JHKc-DBP1-R | 08-Feb-01 | 90.5 | 7.10 | 103 | 10.0 | 0.40 | 0.21 |
| AR-JHKc-DBP1-AF | 08-Feb-01 | 93.5 | 6.91 | 280 | 0.5 | 0.08 | 0.072 |
| AR-JHKc-DBP1-R | 30-Mar-01 | 101 | 6.91 | 156 | 10.0 | 1.00 | 0.31 |
| AR-JHKc-DBP-AF(1SP) | 30-Mar-01 | 106 | 6.87 | 162 | 1.0 | 0.40 | 0.21 |
| AR-JHKc-DBP-AF(2SP) | 30-Mar-01 | 113 | 6.66 | 203 | 3.0 | 0.50 | 0.20 |
| AR-JHKc-DBP1-R | 28-Apr-01 | 101 | 7.06 | 105 | 10.0 | 1.00 | 0.63 |
| AR-JHKc-DBP1-AF | 28-Apr-01 | 106 | 7.01 | 258 | 0.2 | 0.30 | 0.61 |
| DBP2 | | | | | | | |
| AR-JHKc-DBP2-R | 16-Dec-00 | 100 | 7.14 | 93.0 | 5.0 | 1.00 | 0.43 |
| AR-JHKc-DBP2-AF | 16-Dec-00 | 101 | 7.21 | 156 | 0.0 | 0.30 | 0.25 |
| AR-JHKc-DBP2-R | 03-Feb-01 | 89.9 | 7.04 | NA | 2.0 | 0.30 | 0.34 |
| AR-JHKc-DBP2-AF | 03-Feb-01 | 100 | 7.11 | NA | 0.0 | 0.00 | 0.27 |
| AR-JHKc-DBP2-R | 08-Feb-01 | 104 | 7.08 | 110 | 5.0 | 0.40 | 0.33 |
| AR-JHKc-DBP2-AF | 08-Feb-01 | 97.0 | 6.97 | 282 | 0.2 | 0.10 | 0.20 |
| AR-JHKc-DBP2-R | 28-Apr-01 | 101 | 7.06 | 105 | 10.0 | 1.00 | 0.63 |
| AR-JHKc-DBP2-AF | 28-Apr-01 | 116 | 6.72 | 262 | 0.5 | 0.50 | 0.59 |

Table 1.3.1 Results of Arsenic Removal Equipment (Double Bucket System)(3/3)

| Well | Date | EC (mS/m) | pH | ORP (Eh) | Fe2+(FK) | As by FK(mg/l) | As by AAS(mg/l) |
|-----------------------|-----------|-----------|------|----------|----------|----------------|-----------------|
| Dupadilla | | | | | | | |
| DB1 | | | | | | | |
| AR-CDBd-DBP1-R | 15-Dec-00 | 39.2 | 7.29 | 126 | 5.0 | 0.07 | 0.13 |
| AR-CDBd-DBP1-AF | 15-Dec-00 | 49.8 | 7.04 | 255 | 0.0 | 0.00 | 0.0094 |
| AR-CDBd-DBP1-R | 31-Jan-01 | 67.0 | 7.27 | 340 | 1.0 | 0.20 | 0.21 |
| AR-CDBd-DBP1-AF | 31-Jan-01 | 66.8 | 7.08 | 263 | 0.0 | 0.01 | 0.11 |
| AR-CDBd-DBP1-R | 29-Mar-01 | 50.9 | 7.18 | 159 | 5.0 | 0.40 | 0.35 |
| AR-CDBd-DBP-AF(1 SP) | 29-Mar-01 | 68.9 | 6.71 | 232 | <0.2 | 0.04 | 0.072 |
| AR-CDBd-DBP-AF(2 SP) | 29-Mar-01 | 75.0 | 6.5 | 222 | <0.2 | 0.03 | 0.048 |
| DB2 | | | | | | | |
| AR-CDBd-DBP2-R | 15-Dec-00 | 53.5 | 7.13 | 157 | 5.0 | 0.60 | 0.18 |
| AR-CDBd-DBP2-AF | 15-Dec-00 | 60.1 | 7.28 | 225 | 0.0 | 0.02 | 0.14 |
| AR-CDBd-DBP2-R | 31-Jan-01 | 66.0 | 7.45 | 262 | 2.0 | 0.02 | 0.14 |
| AR-CDBd-DBP2-AF | 31-Jan-01 | 44.3 | 6.99 | 177 | 0.0 | 0.03 | 0.075 |

Table 1.3.2 Results of Arsenic Removal Equipment (Passive Sedimentation System) (1/5)

| Well | Date | EC (mS/m) | pH | ORP (Eh) | Fe2+(FK) | As by FK(mg/l) | As by AAS(mg/l) |
|------------------|-----------|-----------|------|----------|----------|----------------|-----------------|
| Bakabarsi | | | | | | | |
| PS1 | | | | | | | |
| AR-JSRb-PS1-R | 14-Dec-00 | NA | NA | NA | NA | NA | 1.2 |
| AR-JSRb-PS1-AF | 14-Dec-00 | NA | NA | NA | NA | NA | 0.29 |
| AR-JSRb-PS1-R | 27-Jan-01 | 261 | 7.09 | 91.4 | 5.0 | 0.90 | 0.40 |
| AR-JSRb-PS1-AF | 27-Jan-01 | 259 | 7.51 | 211 | 0.0 | 0.00 | 0.21 |
| AR-JSRb-PS1-R | 06-Feb-01 | 255 | 7.20 | 121 | 5.0 | 0.60 | 0.41 |
| AR-JSRb-PS1-AF | 06-Feb-01 | 261 | 7.53 | 331 | 0.0 | 0.00 | 0.26 |
| AR-JSRb-PS1-R | 06-Feb-01 | 262 | 7.12 | 125 | 2.0 | 0.50 | 0.35 |
| AR-JSRb-PS1-AF | 06-Feb-01 | 256 | 7.52 | 328 | 0.0 | 0.02 | 0.21 |
| PS2 | | | | | | | |
| AR-JSRb-PS2-R | 14-Dec-00 | 272 | 7.12 | 92.1 | 5.0 | 1.00 | 1.4 |
| AR-JSRb-PS2-AF | 14-Dec-00 | 250 | 7.30 | 220 | 0.0 | 0.30 | 0.39 |
| AR-JSRb-PS2-R | 27-Jan-01 | 273 | 7.17 | 122 | 2.0 | 0.50 | 0.45 |
| AR-JSRb-PS2-AF | 27-Jan-01 | 271 | 7.45 | 85.2 | 0.0 | 0.03 | 0.29 |
| AR-JSRb-PS2-R | 06-Feb-01 | 276 | 7.15 | 101 | 2.0 | 0.40 | 0.49 |
| AR-JSRb-PS2-AF | 06-Feb-01 | 270 | 7.64 | 328 | 0.0 | 0.01 | 0.013 |
| AR-JSRb-PS2-R | 06-Feb-01 | 272 | 7.19 | 94.3 | 2.0 | 0.20 | 0.41 |
| AR-JSRb-PS2-AF | 06-Feb-01 | 275 | 7.62 | 332 | 0.0 | 0.06 | 0.25 |
| PS3 | | | | | | | |
| AR-JSRb-PS3-R | 14-Dec-00 | 271 | 7.10 | 89.5 | 5.0 | 0.80 | 0.50 |
| AR-JSRb-PS3-AF | 14-Dec-00 | 269 | 7.45 | 190 | 5.0 | 0.50 | 0.38 |
| AR-JSRb-PS3-R | 27-Jan-01 | 279 | 7.15 | 98.1 | 5.0 | 1.00 | 0.40 |
| AR-JSRb-PS3-AF | 27-Jan-01 | 272 | 7.52 | 307 | 0.0 | 0.20 | 0.34 |
| AR-JSRb-PS3-R | 06-Feb-01 | 272 | 7.24 | 102 | 5.0 | 0.50 | 0.43 |
| AR-JSRb-PS3-AF | 06-Feb-01 | 265 | 7.60 | 332 | 0.0 | 0.01 | 0.26 |
| AR-JSRb-PS3-R | 06-Feb-01 | 271 | 7.31 | 99.0 | 1.0 | 0.60 | 0.44 |
| AR-JSRb-PS3-AF | 06-Feb-01 | 267 | 7.51 | 336 | 0.0 | 0.05 | 0.24 |

Table 1.3.2 Results of Arsenic Removal Equipment (Passive Sedimentaion System) (2/5)

| Well | Date | EC (mS/m) | pH | ORP (Eh) | Fe2+(FK) | As by FK(mg/l) | As by AAS(mg/l) |
|------------------------------------------|-----------|-----------|------|----------|----------|----------------|-----------------|
| Chandrapur | | | | | | | |
| PS1 | | | | | | | |
| AR-JHKc-PS1-R | 09-Dec-00 | 65.4 | 7.27 | 107 | 2.0 | 0.01 | 0.27 |
| AR-JHKc-PS1-AF6 | 09-Dec-00 | 64.2 | 7.37 | 341 | 0.0 | 0.00 | 0.13 |
| AR-JHKc-PS1-R | 15-Jan-01 | 51.2 | 7.50 | 266 | 2.0 | 0.00 | 0.19 |
| AR-JHKc-PS1-AF2 | 15-Jan-01 | 49.6 | 7.67 | 426 | 0.0 | 0.00 | 0.064 |
| AR-JHKc-PS1-R | 03-Feb-01 | 66.3 | 7.14 | NA | 2.0 | 0.00 | 0.13 |
| AR-JHKc-PS1-AF | 03-Feb-01 | 58.0 | 7.35 | NA | 0.0 | 0.00 | 0.047 |
| AR-JHKc-PS1-AF | 08-Feb-01 | 54.3 | 7.62 | 380 | 0.0 | 0.00 | 0.042 |
| AR-JHKc-PS1-R | 30-Mar-01 | 54.3 | 6.93 | 149 | 5.0 | 0.30 | 0.28 |
| AR-JHKc-PS1-AF | 30-Mar-01 | 52.7 | 7.19 | 269 | 0.1 | 0.01 | 0.052 |
| AR-JHKc-PS1-R | 28-Apr-01 | 51.5 | 7.00 | 221 | 4.0 | 0.60 | 0.20 |
| AR-JHKc-PS1-AF | 28-Apr-01 | 63.7 | 7.25 | 298 | 0.0 | 0.00 | 0.061 |
| AR-JHKc-PS1-R | 18-Jun-01 | 50.2 | 7.22 | 76.2 | 4.0 | 0.30 | 0.25 |
| AR-JHKc-PS1-AF | 18-Jun-01 | 48.4 | 7.40 | 350 | 0.0 | 0.00 | 0.043 |
| AR-JHKc-PS1-R | 27-Oct-01 | NA | NA | NA | NA | NA | 0.113 |
| AR-JHKc-PS1-AF (Before changing sand) | 27-Oct-01 | NA | NA | NA | NA | NA | 0.030 |
| AR-JHKc-PS1-AF (After changing sand) | 30-Oct-01 | NA | NA | NA | NA | NA | 0.033 |
| PS2 | | | | | | | |
| AR-JHKc-PS2-R | 09-Dec-00 | 89.9 | 7.27 | 110 | 0.2 | 0.01 | 0.11 |
| AR-JHKc-PS2-AF3 | 09-Dec-00 | 80.2 | 7.33 | 373 | 0.0 | 0.00 | 0.12 |
| AR-JHKc-PS2-R | 15-Jan-01 | 91.2 | 7.50 | 20.0 | 2.0 | 0.00 | 0.061 |
| AR-JHKc-PS2-AF2 | 15-Jan-01 | 88.2 | 8.02 | 232 | 0.0 | 0.00 | 0.030 |
| AR-JHKc-PS2-R | 03-Feb-01 | 90.7 | 7.16 | NA | 2.0 | 0.10 | 0.046 |
| AR-JHKc-PS2-AF | 03-Feb-01 | 88.8 | 7.38 | NA | 0.0 | 0.00 | 0.0087 |
| AR-JHKc-PS2-R | 08-Feb-01 | 40.2 | 7.16 | 133 | 5.0 | NA | 0.041 |
| AR-JHKc-PS2-AF | 08-Feb-01 | 64.6 | 7.64 | 375 | 0.0 | 0.00 | 0.011 |
| AR-JHKc-PS2-R | 30-Mar-01 | 91.2 | 6.95 | 139 | 5.0 | 0.04 | 0.29 |
| AR-JHKc-PS2-AF | 30-Mar-01 | 89.1 | 7.21 | 174 | 0.0 | 0.01 | 0.0057 |
| AR-JHKc-PS2-R | 28-Apr-01 | 91.0 | 7.10 | 140 | 5.0 | 0.07 | 0.15 |
| AR-JHKc-PS2-AF | 28-Apr-01 | 89.3 | 7.36 | 157 | <0.2 | 0.00 | 0.011 |
| AR-JHKc-PS2-R | 18-Jun-01 | 89.3 | 7.11 | 78.3 | 4.0 | 0.04 | 0.13 |
| AR-JHKc-PS2-AF | 18-Jun-01 | 87.7 | 7.34 | 364 | 0.0 | 0.00 | 0.038 |
| AR-JHKc-PS2-R | 27-Oct-01 | NA | NA | NA | NA | NA | 0.034 |
| AR-JHKc-PS2-AF (Before changing sand) | 27-Oct-01 | NA | NA | NA | NA | NA | 0.0064 |
| AR-JHKc-PS2-AF (After changing sand) | 30-Oct-01 | NA | NA | NA | NA | NA | 0.0013 |

Table 1.3.2 Results of Arsenic Removal Equipment (Passive Sedimentaion System) (3/5)

| Well | Date | EC (mS/m) | pH | ORP (Eh) | Fe2+(FK) | As by FK(mg/l) | As by AAS(mg/l) |
|-----------------|-----------|-----------|------|----------|----------|----------------|-----------------|
| PS3 | | | | | | | |
| AR-JHKc-PS3-R | 09-Dec-00 | 86.2 | 7.16 | 110 | 5.0 | 0.20 | 0.16 |
| AR-JHKc-PS3-AF6 | 09-Dec-00 | 82.2 | 7.33 | 324 | 0.0 | 0 | 0.071 |
| AR-JHKc-PS3-R | 15-Jan-01 | 60.0 | 7.36 | 227 | 5.0 | 0.00 | 0.14 |
| AR-JHKc-PS3-AF2 | 15-Jan-01 | 60.8 | 8.38 | 270 | 0.0 | 0.00 | 0.048 |
| AR-JHKc-PS3-R | 03-Feb-01 | 80.5 | 7.28 | NA | 2.0 | 0.20 | 0.11 |
| AR-JHKc-PS3-AF | 03-Feb-01 | 79.9 | 7.46 | NA | 0.0 | 0.00 | 0.030 |
| AR-JHKc-PS3-AF | 08-Feb-01 | 79.2 | 7.30 | 142 | 0.0 | 0.00 | 0.031 |
| AR-JHKc-PS3-R | 26-Mar-01 | 82.7 | 7.02 | 135 | 5.0 | 0.6 | 0.16 |
| AR-JHKc-PS3-AF | 26-Mar-01 | 78.8 | 7.31 | 301 | 0.0 | 0.00 | 0.025 |
| AR-JHKc-PS3-R | 28-Apr-01 | 81.2 | 7.04 | 187 | 5.0 | 0.5 | 0.056 |
| AR-JHKc-PS3-AF | 28-Apr-01 | 82.3 | 7.23 | 260 | <0.2 | 0.01 | 0.030 |
| AR-JHKc-PS3-R | 18-Jun-01 | 79.9 | 7.10 | 82.2 | 3.0 | 0.1 | 0.14 |
| AR-JHKc-PS3-AF | 18-Jun-01 | 79.4 | 7.51 | 311 | 0.0 | 0.00 | 0.18 |
| AR-JHKc-PS2-R | 27-Oct-01 | NA | NA | NA | NA | NA | 0.10 |
| AR-JHKc-PS2-AF | 27-Oct-01 | NA | NA | NA | NA | NA | 0.019 |

Table 1.3.2 Results of Arsenic Removal Equipment (Passive Sedimentaion System) (4/5)

| Well | Date | EC (mS/m) | pH | ORP (Eh) | Fe2+(FK) | As by FK(mg/l) | As by AAS(mg/l) |
|-------------------------------------------|-----------|-----------|------|----------|----------|----------------|-----------------|
| Dupadilla | | | | | | | |
| PS1 | | | | | | | |
| AR-CDBd-PS1-R | 13-Dec-00 | 97.1 | 7.21 | 98.0 | 1.0 | 1.00 | 0.40 |
| AR-CDBd-PS1-AF7 | 13-Dec-00 | 103 | 7.38 | 273 | 0.0 | 0.03 | 0.15 |
| AR-CDBd-PS1-R | 15-Dec-00 | 101 | 7.13 | 174 | 2.0 | 0.10 | 0.41 |
| AR-CDBd-PS1-AF2 | 15-Dec-00 | 61.4 | 7.46 | 125 | 0.0 | 0.00 | 0.22 |
| AR-CDBd-PS1-R | 31-Jan-01 | 97.9 | 7.22 | 291 | 0.5 | NA | 0.39 |
| AR-CDBd-PS1-AF | 31-Jan-01 | 95.6 | 7.44 | 175 | 0.0 | 0.00 | 0.27 |
| AR-CDBd-PS1-R | 11-Feb-01 | 99.4 | 7.2 | 270 | 2.0 | 0.9 | 0.47 |
| AR-CDBd-PS1-AF | 11-Feb-01 | 97.0 | 7.48 | 320 | 0.0 | 0.2 | 0.28 |
| AR-CDBd-PS1-AFF | 11-Feb-01 | NA | NA | NA | NA | NA | 0.27 |
| AR-CDBd-PS1-R | 29-Mar-01 | 96.8 | 7.07 | 149 | 1.0 | 0.90 | 0.41 |
| AR-CDBd-PS1-AF | 29-Mar-01 | 95.2 | 7.31 | 269 | 0.1 | 0.30 | 0.23 |
| PS2 | | | | | | | |
| AR-CDBd-PS2-R | 13-Dec-00 | 66.1 | 7.46 | 81.0 | 1.0 | 0.03 | 0.17 |
| AR-CDBd-PS2-AF5 | 13-Dec-00 | 55.0 | 7.65 | 147 | 0.0 | 0.00 | 0.016 |
| AR-CDBd-PS2-R | 15-Dec-00 | 49.5 | 7.18 | 234 | 5.0 | 0.20 | 0.16 |
| AR-CDBd-PS2-AF1 | 15-Dec-00 | 50.2 | 7.64 | 119 | 0.0 | 0.00 | 0.06 |
| AR-CDBd-PS2-R | 31-Jan-01 | 65.3 | 7.28 | 181 | 2.0 | NA | 0.10 |
| AR-CDBd-PS2-AF | 31-Jan-01 | 65.8 | 7.39 | 335 | 0.0 | 0.00 | 0.036 |
| AR-CDBd-PS2-R | 29-Mar-01 | 54.1 | 7.15 | 115 | 5.0 | 0.05 | 0.11 |
| AR-CDBd-PS2-AF | 29-Mar-01 | 51.5 | 7.36 | 211 | 0.1 | 0.00 | 0.029 |
| AR-CDBd-PS2-R | 27-Apr-01 | 49.0 | 7.36 | 88.0 | 5.0 | 0.30 | 0.067 |
| AR-CDBd-PS2-R | 30-Jun-01 | 54.1 | 7.36 | 52.2 | 4.0 | 0.03 | 0.33 |
| AR-CDBd-PS2-AF | 30-Jun-01 | 49.0 | 7.55 | 346 | 0.0 | 0.00 | 0.13 |
| AR-CDBd-PS2-R | 26-Oct-01 | NA | NA | NA | NA | NA | 0.085 |
| AR-CDBd-PS2-AF (Before changing sands) | 26-Oct-01 | NA | NA | NA | NA | NA | 0.031 |
| AR-CDBd-PS2-AF (After changing sands) | 29-Oct-01 | NA | NA | NA | NA | NA | 0.021 |

Table 1.3.2 Results of Arsenic Removal Equipment (Passive Sedimentaion System) (5/5)

| Well | Date | EC (mS/m) | pH | ORP (Eh) | Fe2+(FK) | As by FK(mg/l) | As by AAS(mg/l) |
|-----------------|-----------|-----------|------|----------|----------|----------------|-----------------|
| PS3 | | | | | | | |
| AR-CDBd-PS3-R | 13-Dec-00 | 71.1 | 7.24 | 107 | 5.0 | 1.00 | 0.32 |
| AR-CDBd-PS3-AF7 | 13-Dec-00 | 55.9 | 7.43 | 264 | 0.0 | 0.0 | 0.13 |
| AR-CDBd-PS3-R | 15-Dec-00 | 44.8 | 7.37 | 190 | 5.0 | 0.03 | 0.31 |
| AR-CDBd-PS3-AF2 | 15-Dec-00 | 44.8 | 7.53 | 108 | 0.0 | 0.00 | 0.285 |
| AR-CDBd-PS3-R | 31-Jan-01 | 73.1 | 7.20 | 259 | 2.0 | NA | 0.41 |
| AR-CDBd-PS3-AF | 31-Jan-01 | 80.5 | 7.27 | 329 | 0.0 | 0.00 | 0.17 |
| AR-CDBd-PS3-R | 10-Feb-01 | 72.9 | 7.19 | 121 | 10.0 | 0.70 | 0.43 |
| AR-CDBd-PS3-AF | 11-Feb-01 | 74.9 | 7.49 | 322 | 0.0 | 0.02 | 0.078 |
| AR-CDBd-PS3-AFF | 11-Feb-01 | NA | NA | NA | NA | NA | 0.075 |
| AR-CDBd-PS3-R | 29-Mar-01 | 70.6 | 7.09 | 153 | 5.0 | 1.00 | 0.33 |
| AR-CDBd-PS3-AF | 29-Mar-01 | 69.2 | 7.26 | 204 | 0.2 | 0.40 | 0.16 |
| AR-CDBd-PS3-R | 27-Apr-01 | 53.1 | 7.26 | 98.8 | 6.0 | 1.00 | 0.42 |
| AR-CDBd-PS3-AF | 27-Apr-01 | 52.3 | 7.42 | 161 | 1.0 | 0.60 | 0.22 |

Table 1.3.3 Results of Arsenic Removal Equipment (Activated Alumina Adsorption System) (1/2)

| Well | Date | EC (mS/m) | pH | ORP (Eh) | Fe2+(FK) | As by FK(mg/l) | As by AAS(mg/l) |
|-------------------|-----------|-----------|------|----------|----------|----------------|-----------------|
| Bakabarsi | | | | | | | |
| AR-JSRb-AA-R | 27-Jan-01 | 262.0 | 7.19 | 132 | 2.0 | 0.90 | 0.42 |
| AR-JSRb-AA-AF | 27-Jan-01 | 128.0 | 7.45 | 293 | 0.0 | 0.00 | 0.09 |
| AR-JSRb-AA-R | 06-Feb-01 | 226.0 | 7.32 | 125 | 5.0 | 0.70 | 0.4 |
| AR-JSRb-AA-AF | 06-Feb-01 | 233.0 | 7.64 | 330 | 0.0 | 0.02 | 0.11 |
| AR-JSRb-AA-R | 06-Feb-01 | 255.0 | 7.32 | 100 | 1.0 | 0.60 | 0.42 |
| AR-JSRb-AA-AF | 06-Feb-01 | 255 | 7.57 | 329 | 0.0 | 0.01 | 0.18 |
| AR-JSRb-AA-R | 04-Mar-01 | 252 | 7.21 | 145 | 5.0 | 0.90 | 0.74 |
| AR-JSRb-AA-AF | 04-Mar-01 | 249 | 7.72 | 166 | 0.0 | 0.00 | 0.02 |
| AR-JSRb-AA-R | 27-Mar-01 | NA | NA | NA | NA | NA | 0.47 |
| AR-JSRb-AA-AF | 27-Mar-01 | NA | NA | NA | NA | NA | 0.062 |
| AR-JSRb-AA-R | 30-Apr-01 | 250 | 7.18 | 96.9 | 4.0 | 1.00 | 0.42 |
| AR-JSRb-AA-AF | 30-Apr-01 | 249 | 7.67 | 384 | 0.0 | 0.05 | 0.23 |
| AR-JSRb-AA-R | 09-May-01 | 248 | 7.13 | 85.9 | 5.0 | 1.00 | 0.31 |
| AR-JSRb-AA-AF | 09-May-01 | 245 | 7.57 | 262 | 0.2 | 0.30 | 0.27 |
| AR-JSRb-AA-R | 22-May-01 | 253 | 7.10 | 89.1 | 4.0 | 0.90 | 0.48 |
| AR-JSRb-AA-AF | 22-May-01 | 251 | 7.56 | 237.0 | 0.2 | 0.60 | 0.35 |
| AR-JSRb-AA-R | 25-Jun-01 | 243 | 7.40 | 57.6 | 5.0 | 0.90 | 0.67 |
| AR-JSRb-AA-AF | 25-Jun-01 | 240 | 8.07 | 286 | 0.0 | 0.01 | 0.40 |
| AR-JSRb-AA-R | 26-Jul-01 | 243 | 7.38 | 54.1 | 4.0 | NA | 0.45 |
| AR-JSRb-AA-AF | 26-Jul-01 | 241 | 7.73 | 230 | 0.2 | NA | 0.25 |
| Chandrapur | | | | | | | |
| AR-JHKc-AA-R | 03-Feb-01 | 127 | 6.98 | NA | 5.0 | 0.30 | 0.38 |
| AR-JHKc-AA-AF | 03-Feb-01 | 117 | 7.39 | 283 | 0.0 | 0.00 | 0.083 |
| AR-JHKc-AA-R | 08-Feb-01 | NA | 6.99 | 112 | 10 | NA | 0.43 |
| AR-JHKc-AA-AF | 08-Feb-01 | 127 | 7.27 | 152 | 0.0 | 0.00 | 0.051 |
| AR-JHKc-AA-R | 02-Mar-01 | 124 | 6.89 | NA | NA | NA | 0.45 |
| AR-JHKc-AA-AF | 02-Mar-01 | 123 | 7.13 | NA | NA | NA | 0.068 |
| AR-JHKc-AA-R | 25-Mar-01 | 123 | 6.83 | 145 | 10 | 1.00 | 0.38 |
| AR-JHKc-AA-AF | 25-Mar-01 | 123 | 7.16 | 137 | 0.2 | 0.06 | 0.073 |
| AR-JHKc-AA-R | 28-Apr-01 | 120 | 7.04 | 111 | 10 | 0.80 | 0.17 |
| AR-JHKc-AA-AF | 28-Apr-01 | 122 | 7.39 | 168 | 0.5 | 0.50 | 0.14 |
| AR-JHKc-AA-R | 06-Oct-01 | 144 | 6.73 | 96.7 | 10 | 0.20 | 0.18 |
| AR-JHKc-AA-AF | 06-Oct-01 | 127 | 6.35 | 405 | 0.2 | 0.01 | 0.0017 |

Table 1.3.3 Results of Arsenic Removal Equipment (Activated Alumina Adsorption System) (2/2)

| Well | Date | EC (mS/m) | pH | ORP (Eh) | Fe2+(FK) | As by FK(mg/l) | As by AAS(mg/l) |
|------------------|-----------|-----------|------|----------|----------|----------------|-----------------|
| Dupadilla | | | | | | | |
| AR-CDBd-AA-R | 31-Jan-01 | 67.0 | 7.28 | 241 | 2.0 | 0.01 | 0.045 |
| AR-CDBd-AA-AF | 31-Jan-01 | 58.0 | 7.05 | 235 | 0.0 | 0.00 | 0.0015 |
| AR-CDBd-AA-R | 25-Mar-01 | 69.3 | 7.12 | 173 | 4.0 | 0.20 | 0.039 |
| AR-CDBd-AA-AF | 25-Mar-01 | 66.6 | 7.32 | 185 | 0.2 | 0.00 | 0.0059 |
| AR-CDBd-AA-R | 27-Apr-01 | 51.4 | 7.33 | 205 | 5.0 | 0.00 | 0.041 |
| AR-CDBd-AA-AF | 27-Apr-01 | 69.0 | 7.48 | 302 | 0.2 | 0.00 | 0.0024 |
| AR-CDBd-AA-R | 30-Jun-01 | 69.0 | 7.59 | 89.7 | 3.0 | 0.03 | 0.070 |
| AR-CDBd-AA-AF | 30-Jun-01 | 50.0 | 7.83 | 378 | 0.0 | 0.00 | 0.0054 |
| AR-CDBd-AA-R | 29-Oct-01 | NA | NA | NA | NA | NA | 0.038 |
| AR-CDBd-AA-AF | 29-Oct-01 | NA | NA | NA | NA | NA | 0.0011 |

Table 1.3.4 Results of Arsenic Removal Equipment (Solar Distillation System)

| Well | Date | EC (mS/m) | pH | ORP (Eh) | Fe2+(FK) | As by FK(mg/l) | As by AAS(mg/l) |
|---------------------|-----------|-----------|------|----------|----------|----------------|-----------------|
| Bakabarsi | | | | | | | |
| AR-JSRb-SSB-R | 27-Mar-01 | 248 | 7.21 | NA | NA | NA | 0.48 |
| AR-JSRb-SSB-AF | 27-Mar-01 | 6.95 | 6.99 | NA | NA | NA | 0.00058 |
| AR-JSRb-SSB-R(pond) | 22-May-01 | 86.0 | 8.62 | 344 | 0.0 | 0.00 | 0.0045 |
| AR-JSRb-SSB-AF | 22-May-01 | 5.77 | 7.88 | 335 | 0.0 | 0.00 | 0.00074 |
| AR-JSRb-SSB-R(pond) | 25-Jun-01 | 66.7 | 7.99 | 296 | 0.0 | 0.00 | |
| AR-JSRb-SSB-AF | 25-Jun-01 | 2.55 | 7.54 | 313 | 0.0 | 0.00 | 0.0027 |
| Chandrapur | | | | | | | |
| AR-JHKc-SSB-R | 02-Mar-01 | 80.6 | 7.06 | 156 | 5.0 | 0.20 | 0.18 |
| AR-JHKc-SSB-AD | 02-Mar-01 | 4.18 | 7.07 | 349 | 0.0 | 0.00 | <0.0005 |
| AR-JHKc-SSV-AD | 02-Mar-01 | 1.68 | 6.37 | 367 | 0.0 | 0.00 | <0.0005 |
| AR-JHKc-SSV-R | 26-Mar-01 | 79.9 | 7.08 | 129 | 5.0 | 0.50 | 0.13 |
| AR-JHKc-SSV-AF | 29-Mar-01 | 0.900 | 7.82 | 184 | 0.0 | 0.00 | <0.0005 |
| AR-JHKc-SSB-R | 21-May-01 | 45.0 | 7.10 | 137 | 3.0 | 0.30 | 0.38 |
| AR-JHKc-SSB-AD | 21-May-01 | 2.68 | 7.64 | 372 | 0.0 | 0.00 | 0.0056 |
| AR-JHKc-SSV-R | 21-May-01 | 81.3 | 7.08 | 109 | 4.0 | 0.30 | 0.12 |
| AR-JHKc-SSV-AD | 21-May-01 | 1.25 | 7.56 | 397 | 0.0 | 0.00 | <0.0005 |
| AR-JHKc-SSB-R | 18-Jun-01 | 44.4 | 7.25 | 149 | 4.0 | 4.00 | 0.32 |
| AR-JHKc-SSB-AD | 18-Jun-01 | 2.18 | 7.90 | 210 | 0.0 | 0.00 | 0.0021 |
| Dupadilla | | | | | | | |
| SSB-CDBd-R | 15-Feb-01 | 71.3 | 7.32 | 286 | 2.0 | 0.60 | 0.099 |
| SSB-CDBd-AF | 15-Feb-01 | 4.38 | 7.00 | 409 | 0.0 | 0.00 | 0.0010 |

Table 1.3.5 Results of Arsenic Removal Equipment (Double Bucket System)

| Analyte | pH | Temperature | Conductivity | Hardness | TDS | Nitrate | Nitrite | Ammonium | Dissolved Mn | Sulfate | Dissolved Fe | Chloride | Bicarbonate | Calcium | Magnesium | Sodium | Potassium | Fluoride | Cadmium | Total Cr | Copper | Cyanide | Lead | Mercury | Nickel | Zinc | COD | | |
|------------------------------|-----------|--------------|--------------------|------------|----------|---------|---------|----------|--------------|---------|--------------|----------|-------------|---------|-----------|--------|-----------|----------|------------------|------------------|------------------|---------|------------------|------------------|------------------|------------------|-----------|------|----|
| Method | pH meter | Thermo meter | Conductivity meter | Standard | Standard | SP | SP | SP | FAAS | SP | FAAS | SP | Titration | FAAS | FAAS | FAAS | FAAS | SP | Extraction/ FAAS | Extraction/ FAAS | Extraction/ FAAS | SP | Extraction/ FAAS | Extraction/ FAAS | Extraction/ FAAS | Extraction/ FAAS | Titration | | |
| Practical Quantitation Limit | 0 | 0 Deg C | 0.02 | 0.5 | 0.13 | 0.2 | 0.02 | 0.1 | 0.08 | 5 | 0.2 | 0.6 | 20 | 0.5 | 0.05 | 0.05 | 0.1 | 0.1 | 0.0015 | 0.025 | 0.005 | 0.01 | 0.005 | 0.001 | 0.005 | 0.005 | 20 | | |
| Unit | | Deg C | mS/m | mg CaCO3/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg CaCO3/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | | |
| Bankabarsi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AR-JSRb-DBP1-R | 15-Dec-00 | 7.01 | 23.4 | 233 | 105 | 1490 | <PQL | <PQL | 17 | <PQL | <PQL | 3.4 | 540 | 595 | 64 | 41 | 350 | 6.5 | 2.4 | <PQL | <PQL | <PQL | 0.011 | <PQL | <PQL | 0.018 | <PQL | 98 | |
| AR-JSRb-DBP1-AF | 15-Dec-00 | 6.90 | 23.4 | 234 | 96.0 | 1500 | <PQL | <PQL | 22 | <PQL | 86 | <PQL | 540 | 570 | 57 | 39 | 330 | 6.6 | 1.2 | <PQL | <PQL | <PQL | 0.010 | <PQL | <PQL | 0.010 | <PQL | 100 | |
| AR-JSRb-DBP1-R | 26-Jan-01 | 7.05 | 25.0 | 259 | 123 | 1660 | <PQL | <PQL | 1.6 | <PQL | <PQL | 4.2 | 550 | 574 | 84 | 39 | 480 | 8.5 | 1.6 | <PQL | <PQL | 0.0055 | <PQL | <PQL | <PQL | 0.014 | <PQL | 86 | |
| AR-JSRb-DBP1-AF (SP-1) | 26-Jan-01 | 6.80 | 25.7 | 273 | 116 | 1750 | 42 | 2.2 | 2.0 | 0.48 | 120 | 0.36 | 620 | 435 | 76 | 40 | 470 | 9.7 | 4.0 | <PQL | <PQL | <PQL | 0.012 | <PQL | <PQL | <PQL | <PQL | 86 | |
| AR-JSRb-DBP1-AF (SP-3) | 26-Jan-01 | 6.67 | 24.9 | 272 | 108 | 1740 | 25 | 5.8 | 3.1 | 0.48 | 240 | 0.26 | 570 | 333 | 69 | 39 | 500 | 9.7 | 1.8 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.010 | 0.0051 | 78 | |
| AR-JSRb-DBP2-R | 15-Dec-00 | 6.81 | 23.3 | 240 | 110 | 1540 | <PQL | <PQL | 17 | <PQL | <PQL | 3.5 | 550 | 585 | 65 | 44 | 330 | 6.8 | 2.6 | <PQL | <PQL | <PQL | 0.010 | <PQL | <PQL | 0.0075 | <PQL | 120 | |
| AR-JSRb-DBP2-AF | 15-Dec-00 | 6.88 | 24.7 | 239 | 96.5 | 1530 | <PQL | <PQL | 26 | 0.40 | <PQL | <PQL | 520 | 543 | 56 | 40 | 350 | 6.6 | 1.7 | <PQL | <PQL | <PQL | 0.020 | 0.018 | <PQL | 0.0088 | <PQL | 120 | |
| AR-JSRb-DBP2-R | 26-Jan-01 | 7.05 | 24.4 | 258 | 124 | 1650 | <PQL | <PQL | 1.4 | <PQL | <PQL | 2.9 | 500 | 574 | 86 | 38 | 490 | 9.0 | 3.3 | <PQL | <PQL | <PQL | <PQL | 0.0051 | <PQL | <PQL | <PQL | 66 | |
| AR-JSRb-DBP2-AF-Jan (SP-2) | 26-Jan-01 | 6.61 | 24.6 | 266 | 114 | 1700 | 32 | 30 | 2.2 | 0.49 | 130 | 0.26 | 540 | 333 | 75 | 39 | 480 | 10 | 1.6 | <PQL | <PQL | 0.0096 | <PQL | <PQL | <PQL | 0.0085 | <PQL | 58 | |
| Chandrapur | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AR-JHKc-DBP1-R | 16-Dec-00 | 7.09 | 19.5 | 87.7 | 122 | 561 | <PQL | <PQL | 5.5 | 0.81 | <PQL | 4.9 | 4.3 | 484 | 99 | 23 | 18 | 4.7 | 0.61 | <PQL | <PQL | <PQL | <PQL | 0.020 | <PQL | 0.0087 | 0.083 | <PQL | |
| AR-JHKc-DBP1-AF | 16-Dec-00 | 6.70 | 20.4 | 66.2 | 112 | 423 | <PQL | <PQL | 14 | 1.1 | 94 | 1.3 | 3.0 | 262 | 89 | 23 | 17 | 4.3 | 0.50 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 39 |
| AR-JHKc-DBT1-R | 03-Feb-01 | 7.08 | 23.7 | 81.8 | 153 | 523 | 5.0 | 4.5 | <PQL | 0.70 | <PQL | 5.4 | 3.6 | 475 | 120 | 29 | 21 | 2.5 | 0.53 | <PQL | <PQL | <PQL | 0.016 | <PQL | <PQL | 0.011 | <PQL | <PQL | |
| AR-JHKc-DBT1-AF | 03-Feb-01 | 6.94 | 24.4 | 88.7 | 149 | 567 | 16 | 0.44 | 2.6 | 1.0 | 76 | 3.0 | 1.2 | 435 | 120 | 27 | 22 | 3.2 | 0.57 | <PQL | <PQL | <PQL | 0.018 | <PQL | <PQL | <PQL | 0.0077 | 39 | |
| AR-JHKc-DBP2-R | 16-Dec-00 | 7.06 | 20.0 | 102 | 132 | 653 | <PQL | <PQL | 7.0 | 1.3 | <PQL | 3.9 | 0.83 | 580 | 110 | 25 | 18 | 6.6 | 0.43 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.047 | <PQL | |
| AR-JHKc-DBP2-AF | 16-Dec-00 | 6.78 | 17.3 | 36.7 | 127 | 235 | <PQL | <PQL | 9.0 | 1.5 | 40 | 0.68 | 1.0 | 388 | 100 | 25 | 18 | 5.3 | 0.39 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.0061 | 0.016 | <PQL | |
| AR-JHKc-DBT2-R | 03-Feb-01 | 7.08 | 24.2 | 92.2 | 176 | 590 | 15 | <PQL | <PQL | 1.2 | <PQL | 3.7 | <PQL | 537 | 140 | 31 | 25 | 3.0 | 0.40 | <PQL | <PQL | 0.0071 | 0.026 | <PQL | <PQL | 0.0079 | 0.017 | <PQL | |
| AR-JHKc-DBT2-AF | 03-Feb-01 | 7.03 | 24.8 | 98.1 | 180 | 628 | 9.9 | 0.050 | 1.5 | 1.1 | 69 | 0.85 | 1.1 | 500 | 150 | 31 | 23 | 3.7 | 0.61 | <PQL | <PQL | <PQL | 0.012 | 0.011 | <PQL | 0.0074 | 0.0072 | <PQL | |
| BaraDudpatila | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AR-CDBd-DBP1-R | 15-Dec-00 | 7.30 | 20.5 | 42.0 | 61.9 | 269 | <PQL | <PQL | 3.6 | 0.43 | <PQL | 1.7 | <PQL | 235 | 51 | 11 | 4.4 | 2.5 | 1.9 | <PQL | <PQL | 0.0088 | <PQL | 0.010 | <PQL | 0.011 | 0.019 | <PQL | |
| AR-CDBd-DBP1-AF | 15-Dec-00 | 6.94 | 18.8 | 52.9 | 70.6 | 339 | <PQL | <PQL | 19 | 0.61 | 110 | 0.24 | <PQL | 136 | 59 | 12 | 4.6 | 4.8 | <PQL | <PQL | <PQL | 0.010 | 0.027 | <PQL | <PQL | 0.015 | 39 | | |
| AR-CDBd-DBP1-R | 31-Jan-01 | 7.24 | 26.5 | 59.5 | 110 | 381 | 3.3 | 2.3 | <PQL | 0.83 | <PQL | 2.9 | 1.2 | 352 | 89 | 21 | 8.3 | 3.6 | 0.64 | <PQL | <PQL | <PQL | <PQL | 0.0063 | <PQL | <PQL | <PQL | 27 | |
| AR-CDBd-DBP1-AF | 31-Jan-01 | 6.86 | 25.4 | 63.1 | 106 | 404 | 19 | 0.38 | 10 | 0.73 | 89 | 0.22 | <PQL | 222 | 88 | 19 | 6.0 | 4.0 | 0.59 | <PQL | <PQL | <PQL | 0.012 | <PQL | <PQL | <PQL | 0.0072 | 47 | |
| AR-CDBd-DBP2-R | 15-Dec-00 | 7.27 | 19.6 | 60.8 | 79.6 | 389 | <PQL | <PQL | 2.5 | 0.91 | <PQL | 2.6 | <PQL | 349 | 63 | 17 | 5.9 | 2.7 | 0.48 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.0055 | 0.079 | 39 | |
| AR-CDBd-DBP2-AF | 15-Dec-00 | 7.24 | 21.2 | 70.9 | 80.1 | 354 | <PQL | <PQL | 11 | 1.2 | 90 | 0.31 | 0.72 | 286 | 63 | 17 | 6.1 | 5.7 | 0.61 | <PQL | <PQL | <PQL | <PQL | 0.013 | <PQL | <PQL | 0.0083 | 39 | |
| AR-CDBd-DB2-R | 31-Jan-01 | 7.30 | 24.8 | 41.4 | 72.1 | 265 | 2.5 | 2.4 | <PQL | 0.34 | <PQL | 2.2 | <PQL | 241 | 59 | 13 | 4.3 | 3.0 | 1.1 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.0062 | <PQL | <PQL | |
| AR-CDBd-DB2-AF | 31-Jan-01 | 6.71 | 25.1 | 46.7 | 69.3 | 299 | <PQL | 0.040 | 9.6 | 0.42 | 71 | 0.28 | <PQL | 185 | 56 | 13 | 5.2 | 2.6 | 1.2 | <PQL | <PQL | <PQL | 0.014 | <PQL | <PQL | 0.0070 | <PQL | <PQL | |

Excess of WHO guideline Excess of Bangladesh Standard Excess of both Bangladesh Standard and WHO guideline

(The values were determined as exceeding the standards before rounding off)

Table 1.3.6 Results of Arsenic Removal Equipment (Passive Sedimentation System)(1/2)

| Analyte | pH | Temperature | Conductivity | Hardness | TDS | Nitrate | Nitrite | Ammonium | Dissolved Mn | Sulfate | Dissolved Fe | Chloride | Bicarbonate | Calcium | Magnesium | Sodium | Potassium | Fluoride | Cadmium | Total Cr | Copper | Cyanide | Lead | Mercury | Nickel | Zinc | COD | |
|------------------------------|-----------|--------------|--------------------|------------|----------|---------|---------|----------|--------------|---------|--------------|----------|-------------|---------|-----------|--------|-----------|----------|-------------------|-------------------|-------------------|---------|-------------------|-------------------|-------------------|-------------------|-----------|------|
| Method | pH meter | Thermo meter | Conductivity meter | Standard | Standard | SP | SP | SP | FAAS | SP | FAAS | SP | Titration | FAAS | FAAS | FAAS | FAAS | SP | Extractio n/ FAAS | Extractio n/ FAAS | Extractio n/ FAAS | SP | Extractio n/ FAAS | Extractio n/ FAAS | Extractio n/ FAAS | Extractio n/ FAAS | Titration | |
| Practical Quantitation Limit | 0 | 0 Deg C | 0.02 | 0.5 | 0.13 | 0.2 | 0.02 | 0.1 | 0.08 | 5 | 0.2 | 0.6 | 20 | 0.5 | 0.05 | 0.05 | 0.1 | 0.1 | 0.0015 | 0.025 | 0.005 | 0.01 | 0.005 | 0.001 | 0.005 | 0.005 | 20 | |
| Unit | | Deg C | mS/m | mg CaCO3/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg CaCO3/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | |
| Bankabarsi | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AR-JSRb-PS1-R | 14-Dec-00 | 6.93 | 24.3 | 227 | 92.3 | 1450 | <PQL | <PQL | 22 | <PQL | <PQL | 2.5 | 290 | 585 | 60 | 32 | 200 | 6.7 | 2.2 | <PQL | <PQL | <PQL | 0.016 | <PQL | <PQL | 0.011 | <PQL | 85 |
| AR-JSRb-PS1-AF | 14-Dec-00 | 7.44 | 24.5 | 225 | 93.1 | 1440 | <PQL | <PQL | 21 | 0.36 | <PQL | <PQL | 270 | 577 | 61 | 32 | 340 | 7.1 | 1.7 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.024 | <PQL | 110 |
| AR-JSRb-PS1-R | 27-Jan-01 | 7.08 | 24.4 | 251 | 120 | 1610 | <PQL | <PQL | 1.6 | <PQL | <PQL | 4.4 | 500 | 546 | 85 | 34 | 480 | 7.8 | 1.4 | <PQL | <PQL | <PQL | <PQL | 0.0073 | <PQL | <PQL | 0.043 | 51 |
| AR-JSRb-PS1-AF | 27-Jan-01 | 7.21 | 24.4 | 250 | 127 | 1600 | 16 | 0.65 | 0.57 | <PQL | <PQL | 0.27 | 490 | 500 | 91 | 35 | 470 | 8.7 | 1.7 | <PQL | <PQL | <PQL | <PQL | 0.0089 | <PQL | <PQL | 0.016 | 39 |
| AR-JSRb-PS2-R | 14-Dec-00 | 7.13 | 24.6 | 235 | 107 | 1500 | <PQL | <PQL | 18 | <PQL | <PQL | 0.76 | 520 | 585 | 67 | 40 | 360 | 7.6 | 1.5 | <PQL | <PQL | <PQL | <PQL | 0.0063 | <PQL | 0.013 | <PQL | 120 |
| AR-JSRb-PS2-AF | 14-Dec-00 | 7.52 | 24.2 | 234 | 101 | 1500 | <PQL | 0.030 | 16 | <PQL | <PQL | <PQL | 580 | 575 | 64 | 37 | 360 | 7.0 | 1.5 | <PQL | <PQL | <PQL | 0.012 | <PQL | <PQL | 0.016 | <PQL | 79 |
| AR-JSRb-PS2-R | 27-Jan-01 | 7.40 | 23.9 | 252 | 141 | 1610 | <PQL | <PQL | 1.2 | <PQL | <PQL | 3.6 | 600 | 538 | 100 | 39 | 500 | 7.2 | 1.6 | <PQL | <PQL | <PQL | <PQL | 0.0054 | <PQL | 0.0062 | 0.049 | 58 |
| AR-JSRb-PS2-AF | 27-Jan-01 | 7.44 | 23.7 | 236 | 137 | 1510 | 17 | 0.66 | 1.4 | <PQL | <PQL | 0.36 | 510 | 527 | 99 | 38 | 480 | 8.3 | 1.8 | <PQL | <PQL | <PQL | <PQL | 0.010 | <PQL | 0.0073 | 0.033 | 39 |
| AR-JSRb-PS3-R | 14-Dec-00 | 6.98 | 24.1 | 241 | 101 | 1540 | <PQL | <PQL | 17 | <PQL | <PQL | 0.58 | 530 | 590 | 64 | 37 | 340 | 6.8 | 1.5 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.0052 | <PQL | 120 |
| AR-JSRb-PS3-AF | 14-Dec-00 | 7.29 | 23.6 | 234 | 100 | 1500 | <PQL | <PQL | 20 | <PQL | 7.4 | <PQL | 610 | 590 | 63 | 37 | 360 | 6.5 | 1.7 | <PQL | <PQL | <PQL | 0.011 | <PQL | <PQL | 0.011 | <PQL | 130 |
| AR-JSRb-PS3-R | 27-Jan-01 | 7.21 | 24.0 | 246 | 131 | 1570 | <PQL | <PQL | 1.3 | <PQL | <PQL | 3.7 | 550 | 555 | 94 | 37 | 490 | 8.4 | 2.0 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.081 | 66 |
| AR-JSRb-PS3-AF | 27-Jan-01 | 7.39 | 24.1 | 250 | 131 | 1600 | 18 | 5.3 | 1.3 | <PQL | <PQL | 0.28 | 460 | 555 | 93 | 38 | 510 | 9.2 | 2.1 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.0088 | 0.0098 | 58 |
| Chandrapur | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AR-JHKc-PS1-R | 09-Dec-00 | 7.31 | 23.6 | 68.6 | 83.3 | 439 | <PQL | <PQL | 3.0 | 0.27 | <PQL | 0.35 | 1.6 | 380 | 61 | 22 | 11 | 3.7 | 0.37 | <PQL | <PQL | <PQL | 0.012 | 0.0058 | <PQL | <PQL | <PQL | <PQL |
| AR-JHKc-PS1-BF6 | 09-Dec-00 | 7.51 | 22.5 | 69.9 | 85.6 | 447 | <PQL | <PQL | 3.5 | 0.41 | <PQL | <PQL | 2.2 | 380 | 63 | 23 | 13 | 3.5 | 0.38 | <PQL | <PQL | <PQL | <PQL | 0.0061 | <PQL | 0.015 | <PQL | 39 |
| AR-JHKc-PS1-AF6 | 09-Dec-00 | 7.33 | 22.4 | 69.4 | 87.2 | 444 | 3.0 | <PQL | 1.3 | 0.23 | <PQL | <PQL | 0.91 | 370 | 65 | 22 | 11 | 4.0 | 0.36 | <PQL | <PQL | <PQL | <PQL | 0.0059 | <PQL | 0.012 | <PQL | <PQL |
| AR-JHKc-PS1-R | 15-Jan-01 | 6.97 | 23.8 | 67.4 | 98.4 | 432 | <PQL | <PQL | 7.8 | 0.35 | <PQL | 2.5 | 1.1 | 361 | 78 | 20 | 6.5 | 3.9 | 0.26 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.10 | <PQL |
| AR-JHKc-PS1-AF2 | 15-Jan-01 | 7.41 | 23.8 | 66.9 | 99.3 | 422 | 2.3 | <PQL | 5.9 | 0.17 | <PQL | 0.36 | 1.4 | 352 | 79 | 20 | 6.9 | 3.9 | 0.28 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.073 | <PQL |
| AR-JHKc-PS2-R | 09-Dec-00 | 7.40 | 21.8 | 96.9 | 119 | 620 | <PQL | <PQL | 3.7 | 0.32 | <PQL | 1.6 | 2.2 | 530 | 94 | 25 | 14 | 4.1 | 0.27 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL |
| AR-JHKc-PS2-BF5 | 09-Dec-00 | 7.50 | 22.5 | 98.2 | 128 | 628 | <PQL | 0.050 | 2.9 | 0.29 | <PQL | <PQL | 5.6 | 540 | 100 | 26 | 17 | <PQL | 0.20 | <PQL | <PQL | <PQL | 0.010 | <PQL | <PQL | <PQL | <PQL | <PQL |
| AR-JHKc-PS2-AF3 | 09-Dec-00 | 7.23 | 25.3 | 96.8 | 114 | 620 | <PQL | 0.090 | 1.6 | 0.15 | <PQL | <PQL | 4.3 | 523 | 88 | 26 | 17 | 4.7 | 0.33 | <PQL | <PQL | <PQL | <PQL | 0.011 | <PQL | 0.010 | <PQL | <PQL |
| AR-JHKc-PS2-R | 15-Jan-01 | 6.91 | 24.1 | 94.5 | 140 | 605 | <PQL | <PQL | 6.5 | 0.29 | <PQL | 2.1 | 3.1 | 503 | 120 | 23 | 12 | 4.4 | 0.17 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.0051 | 0.022 | <PQL |
| AR-JHKc-PS2-AF2 | 15-Jan-01 | 7.17 | 23.9 | 92.3 | 147 | 591 | 1.8 | 0.19 | 6.5 | 0.18 | <PQL | 0.54 | 3.0 | 500 | 120 | 28 | 14 | 4.5 | 0.15 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.039 | <PQL |
| AR-JHKc-PS3-R | 09-Dec-00 | 7.12 | 24.7 | 88.6 | 108 | 567 | <PQL | <PQL | 3.3 | 0.82 | <PQL | 2.9 | 3.4 | 498 | 84 | 24 | 13 | 4.1 | 0.49 | <PQL | <PQL | <PQL | <PQL | 0.0067 | <PQL | 0.0072 | <PQL | <PQL |
| AR-JHKc-PS3-BF6 | 09-Dec-00 | 7.42 | 24.4 | 84.6 | 105 | 541 | <PQL | <PQL | 3.1 | 0.64 | <PQL | <PQL | 3.3 | 490 | 82 | 23 | 13 | 3.7 | 0.42 | <PQL | <PQL | <PQL | 0.014 | 0.0073 | <PQL | 0.010 | <PQL | 39 |
| AR-JHKc-PS3-AF6 | 09-Dec-00 | 7.30 | 24.6 | 88.5 | 108 | 566 | 2.6 | <PQL | <PQL | 0.36 | <PQL | <PQL | 2.7 | 480 | 83 | 24 | 13 | 4.2 | 0.44 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.0077 | <PQL | <PQL |
| AR-JHKc-PS3-R | 15-Jan-01 | 6.97 | 24.1 | 83.4 | 129 | 534 | 2.5 | <PQL | 8.5 | 0.69 | <PQL | 3.1 | 1.9 | 453 | 110 | 22 | 13 | 3.9 | 0.32 | <PQL | <PQL | <PQL | 0.010 | <PQL | <PQL | 0.0067 | 0.096 | <PQL |
| AR-JHKc-PS3-AF2 | 15-Jan-01 | 7.46 | 24.1 | 83.0 | 126 | 531 | 2.8 | <PQL | 6.1 | 0.21 | <PQL | 0.45 | 3.9 | 426 | 100 | 22 | 11 | 4.2 | 0.35 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.042 | <PQL |

Excess of WHO guideline Excess of Bangladesh Standard Excess of both Bangladesh Standard and WHO guideline
 (The values were determined as exceeding the standards before rounding off)

Table 1.3.6 Results of Arsenic Removal Equipment (Passive Sedimentation System)(2/2)

| Analyte | pH | Temperature | Conductivity | Hardness | TDS | Nitrate | Nitrite | Ammonium | Dissolved Mn | Sulfate | Dissolved Fe | Chloride | Bicarbonate | Calcium | Magnesium | Sodium | Potassium | Fluoride | Cadmium | Total Cr | Copper | Cyanide | Lead | Mercury | Nickel | Zinc | COD | | |
|------------------------------|-----------|--------------|--------------------|------------|----------|---------|---------|----------|--------------|---------|--------------|----------|-------------|---------|-----------|--------|-----------|----------|------------------|------------------|------------------|---------|------------------|------------------|------------------|------------------|-----------|-------|------|
| Method | pH meter | Thermo meter | Conductivity meter | Standard | Standard | SP | SP | SP | FAAS | SP | FAAS | SP | Titration | FAAS | FAAS | FAAS | FAAS | SP | Extraction/ FAAS | Extraction/ FAAS | Extraction/ FAAS | SP | Extraction/ FAAS | Extraction/ FAAS | Extraction/ FAAS | Extraction/ FAAS | Titration | | |
| Practical Quantitation Limit | 0 | 0 Deg C | 0.02 | 0.5 | 0.13 | 0.2 | 0.02 | 0.1 | 0.08 | 5 | 0.2 | 0.6 | 20 | 0.5 | 0.05 | 0.05 | 0.1 | 0.1 | 0.0015 | 0.025 | 0.005 | 0.01 | 0.005 | 0.001 | 0.005 | 0.005 | 20 | | |
| Unit | | Deg C | mS/m | mg CaCO3/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg CaCO3/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | | |
| Bara Dudpatila | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AR-CDBd-PS1-R | 13-Dec-00 | 7.24 | 20.1 | 98.5 | 122 | 630 | <PQL | <PQL | 4.9 | 0.86 | <PQL | 0.62 | 40 | 483 | 90 | 32 | 15 | 5.7 | 0.50 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.0055 | 0.095 | <PQL |
| AR-CDBd-PS1-BF6 | 13-Dec-00 | 7.17 | 19.0 | 72.0 | 116 | 461 | <PQL | 0.030 | 3.7 | 0.79 | <PQL | 0.25 | 44 | 336 | 84 | 32 | 16 | 5.7 | 0.40 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.080 | <PQL | |
| AR-CDBd-PS1-AF7 | 13-Dec-00 | 6.87 | 20.9 | 65.3 | 122 | 418 | 6.1 | <PQL | 1.9 | 0.23 | <PQL | 0.30 | 40 | 288 | 89 | 33 | 4.6 | 3.6 | 0.36 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.0072 | 0.011 | <PQL | |
| AR-CDBd-PS1-R | 15-Jan-01 | 7.04 | 24.5 | 103 | 146 | 657 | <PQL | <PQL | 10 | 0.98 | <PQL | 1.7 | 77 | 481 | 120 | 31 | 14 | 5.9 | 0.47 | <PQL | <PQL | 0.068 | 0.013 | <PQL | <PQL | <PQL | <PQL | <PQL | |
| AR-CDBd-PS1-AF2 | 15-Jan-01 | 7.13 | 24.2 | 98.5 | 145 | 630 | 2.4 | 0.53 | 5.1 | 0.81 | <PQL | 0.22 | 22 | 472 | 110 | 31 | 14 | 6.3 | 0.47 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.0056 | 0.012 | <PQL | |
| AR-CDBd-PS2-R | 13-Dec-00 | 6.83 | 20.2 | 29.0 | 96.9 | 185 | <PQL | <PQL | 3.6 | 0.40 | <PQL | 0.45 | 2.0 | 296 | 73 | 24 | 2.9 | 2.5 | 0.23 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.0068 | 0.097 | 39 | |
| AR-CDBd-PS2-BF3 | 13-Dec-00 | 7.70 | 20.0 | 64.9 | 85.1 | 416 | <PQL | <PQL | 4.4 | 0.39 | <PQL | 0.38 | 3.0 | 359 | 67 | 19 | 8.7 | 4.2 | 0.54 | <PQL | <PQL | <PQL | <PQL | 0.0062 | <PQL | 0.0095 | 0.11 | <PQL | |
| AR-CDBd-PS2-AF5 | 13-Dec-00 | 6.95 | 18.5 | 28.4 | 81.5 | 182 | 4.7 | <PQL | 1.5 | <PQL | <PQL | 0.48 | 3.2 | 267 | 63 | 18 | 8.8 | 5.0 | 0.16 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.11 | 39 | | |
| AR-CDBd-PS2-R | 15-Jan-01 | 7.10 | 24.1 | 72.6 | 112 | 465 | <PQL | <PQL | 14 | 0.86 | <PQL | 4.9 | 8.9 | 389 | 92 | 20 | 6.3 | 4.5 | 0.37 | <PQL | <PQL | <PQL | 0.014 | <PQL | <PQL | 0.0052 | 0.013 | <PQL | |
| AR-CDBd-PS2-AF2 | 15-Jan-01 | 7.25 | 24.2 | 73.0 | 108 | 467 | <PQL | <PQL | 12 | 0.92 | <PQL | 0.88 | 8.7 | 370 | 88 | 20 | 6.7 | 4.7 | 0.41 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.0083 | 0.020 | <PQL | |
| AR-CDBd-PS3-R | 13-Dec-00 | 7.09 | 20.3 | 62.8 | 86.8 | 402 | <PQL | <PQL | 6.0 | 0.67 | <PQL | 1.7 | 7.6 | 320 | 68 | 19 | 9.8 | 5.7 | 0.31 | <PQL | <PQL | <PQL | <PQL | 0.0079 | <PQL | <PQL | 0.028 | 39 | |
| AR-CDBd-PS3-BF6 | 13-Dec-00 | 7.36 | 19.1 | 70.2 | 86.7 | 449 | <PQL | <PQL | 3.9 | 0.68 | <PQL | 0.51 | 6.1 | 373 | 68 | 19 | 9.3 | 6.1 | 0.39 | <PQL | <PQL | <PQL | <PQL | 0.0085 | <PQL | 0.026 | 0.054 | 39 | |
| AR-CDBd-PS3-AF7 | 13-Dec-00 | 7.32 | 18.6 | 65.4 | 85.4 | 418 | <PQL | 0.51 | 5.7 | 0.66 | <PQL | <PQL | 7.7 | 352 | 66 | 19 | 9.8 | 6.5 | 0.31 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.0093 | 0.015 | 39 | |
| AR-CDBd-PS3-R | 31-Jan-01 | 7.09 | 24.1 | 67.4 | 102 | 431 | <PQL | 0.020 | 9.6 | 0.56 | <PQL | 3.8 | 3.6 | 370 | 85 | 17 | 6.4 | 4.1 | 0.30 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.0079 | 0.0078 | <PQL | |
| AR-CDBd-PS3-AF2 | 31-Jan-01 | 7.37 | 24.3 | 67.0 | 102 | 429 | 4.4 | 0.22 | 7.8 | 0.29 | <PQL | 0.39 | 2.8 | 356 | 85 | 17 | 7.0 | 4.0 | 0.37 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.0061 | 0.020 | <PQL | |

Excess of WHO guideline
Excess of Bangladesh Standard
Excess of both Bangladesh Standard and WHO guideline
 (The values were determined as exceeding the standards before rounding off)

Table 1.3.7 Results of Arsenic Removal Equipment (Activated Alumina System)

| Analyte | pH | Temperature | Conductivity | Hardness | TDS | Nitrate | Nitrite | Ammonium | Dissolved Mn | Sulfate | Dissolved Fe | Chloride | Bicarbonate | Calcium | Magnesium | Sodium | Potassium | Fluoride | Cadmium | Total Cr | Copper | Cyanide | Lead | Mercury | Nickel | Zinc | COD | | |
|------------------------------|-----------|--------------|--------------------|------------|----------|---------|---------|----------|--------------|---------|--------------|----------|-------------|---------|-----------|--------|-----------|----------|-----------------|-----------------|-----------------|---------|-----------------|-----------------|-----------------|-----------------|-----------|-------|------|
| Method | pH meter | Thermo meter | Conductivity meter | Standard | Standard | SP | SP | SP | FAAS | SP | FAAS | SP | Titration | FAAS | FAAS | FAAS | FAAS | SP | Extraction/FAAS | Extraction/FAAS | Extraction/FAAS | SP | Extraction/FAAS | Extraction/FAAS | Extraction/FAAS | Extraction/FAAS | Titration | | |
| Practical Quantitation Limit | 0 | 0 Deg C | 0.02 | 0.5 | 0.13 | 0.2 | 0.02 | 0.1 | 0.08 | 5 | 0.2 | 0.6 | 20 | 0.5 | 0.05 | 0.05 | 0.1 | 0.1 | 0.0015 | 0.025 | 0.005 | 0.01 | 0.005 | 0.001 | 0.005 | 0.005 | 20 | | |
| Unit | | Deg C | mS/m | mg CaCO3/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg CaCO3/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | | |
| Bankabarsi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AR-JSRb-AA-R | 27-Jan-01 | 7.22 | 24.3 | 244 | 118 | 1560 | <PQL | <PQL | 1.4 | <PQL | <PQL | 3.6 | 540 | 574 | 88 | 30 | 470 | 8.5 | 1.5 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.014 | 0.046 | 85 |
| AR-JSRb-AA-AF | 27-Jan-01 | 7.28 | 24.0 | 232 | 125 | 1480 | 4.4 | 1.2 | 0.32 | <PQL | 40 | 0.37 | 450 | 518 | 85 | 39 | 480 | 8.3 | 1.1 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.072 | 39 |
| AR-JSRb-AA-R | 04-Mar-01 | 7.21 | 27.9 | 245 | 98.8 | 1570 | <PQL | <PQL | 1.8 | <PQL | <PQL | 1.9 | 530 | 555 | 76 | 23 | 480 | 9.9 | 2.2 | <PQL | <PQL | <PQL | 0.016 | 0.0065 | <PQL | 0.0076 | 0.055 | 70 | |
| AR-JSRb-AA-AF | 04-Mar-01 | 7.24 | 27.9 | 233 | 97.0 | 1490 | 21 | 13 | <PQL | <PQL | <PQL | 0.27 | 690 | 500 | 74 | 23 | 490 | 9.5 | 0.24 | <PQL | <PQL | 0.009 | <PQL | <PQL | <PQL | 0.0056 | 0.037 | 72 | |
| Chandrapur | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AR-JHKc-AA-R | 03-Feb-01 | 6.99 | 24.5 | 122 | 168 | 778 | <PQL | <PQL | 2.6 | 0.50 | <PQL | 6.1 | 110 | 490 | 130 | 39 | 23 | 6.9 | 0.42 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.0053 | 0.093 | 39 |
| AR-JHKc-AA-AF | 03-Feb-01 | 7.15 | 25.0 | 114 | 158 | 729 | 18 | 12 | 5.1 | 0.36 | 65 | 0.32 | 120 | 379 | 120 | 38 | 29 | 7.5 | 0.49 | <PQL | <PQL | 0.0071 | <PQL | <PQL | <PQL | <PQL | <PQL | 0.083 | <PQL |
| AR-JHKc-AA-R | 02-Mar-01 | 6.89 | 24.2 | 124 | 173 | 794 | <PQL | <PQL | 3.0 | 0.11 | <PQL | 9.6 | 130 | 500 | 130 | 40 | 21 | 3.9 | 0.38 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 31 | |
| AR-JHKc-AA-AF | 02-Mar-01 | 7.13 | 24.3 | 123 | 175 | 790 | 11 | 5.6 | 3.1 | 0.15 | <PQL | 0.35 | 120 | 481 | 130 | 40 | 27 | 3.7 | 0.17 | <PQL | <PQL | <PQL | 0.012 | <PQL | <PQL | <PQL | 0.063 | 31 | |
| AR-JHKc-AA-R | 25-Mar-01 | 7.07 | 28.6 | 120 | 163 | 767 | <PQL | <PQL | 17 | <PQL | <PQL | 11 | 150 | 472 | 140 | 24 | 26 | 7.1 | 0.46 | <PQL | <PQL | 0.008 | <PQL | 0.0055 | <PQL | <PQL | 0.044 | 59 | |
| AR-JHKc-AA-AF | 25-Mar-01 | 7.29 | 28.3 | 119 | 166 | 763 | <PQL | 0.020 | 4.1 | <PQL | <PQL | 0.61 | 130 | 492 | 140 | 24 | 27 | 7.2 | 0.27 | <PQL | <PQL | <PQL | 0.016 | <PQL | <PQL | 0.015 | 0.21 | 39 | |
| Bara Dudpatila | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AR-CDBd-AA-R | 31-Jan-01 | 7.42 | 24.7 | 67.3 | 109 | 431 | 0.97 | <PQL | <PQL | 0.32 | <PQL | 1.3 | 11 | 370 | 87 | 22 | 9.5 | 4.7 | 0.38 | <PQL | <PQL | <PQL | 0.022 | <PQL | <PQL | 0.0076 | 0.057 | <PQL | |
| AR-CDBd-AA-AF | 31-Jan-01 | 7.18 | 24.6 | 62.5 | 97.2 | 400 | 1.7 | <PQL | 0.16 | 0.087 | 83 | 0.36 | 12 | 278 | 75 | 22 | 9.9 | 4.6 | 0.44 | <PQL | <PQL | 0.016 | <PQL | <PQL | <PQL | 0.0051 | 0.063 | <PQL | |
| AR-CDBd-AA-R | 25-Mar-01 | 7.51 | 27.5 | 66.6 | 114 | 426 | 1.1 | <PQL | <PQL | 0.28 | <PQL | 3.7 | 13 | 352 | 94 | 19 | 15 | 6.7 | 0.46 | <PQL | <PQL | <PQL | <PQL | 0.0062 | <PQL | <PQL | 0.019 | 31 | |
| AR-CDBd-AA-AF | 25-Mar-01 | 7.52 | 27.4 | 63.4 | 113 | 405 | 0.97 | <PQL | <PQL | <PQL | <PQL | 0.65 | 18 | 339 | 94 | 19 | 18 | 6.9 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | |

Excess of WHO guideline
Excess of Bangladesh Standard
Excess of both Bangladesh Standard and WHO guideline

(The values were determined as exceeding the standards before rounding off)

Table 1.3.8 Results of Arsenic Removal Equipment (Solar Distillation System)

| Analyte | pH | Temperature | Conductivity | Hardness | TDS | Nitrate | Nitrite | Ammonium | Dissolved Mn | Sulfate | Dissolved Fe | Chloride | Bicarbonate | Calcium | Magnesium | Sodium | Potassium | Fluoride | Cadmium | Total Cr | Copper | Cyanide | Lead | Mercury | Nickel | Zinc | COD | |
|------------------------------|-----------|--------------|--------------------|------------|----------|---------|---------|----------|--------------|---------|--------------|----------|-------------|---------|-----------|--------|-----------|----------|------------------|------------------|------------------|---------|------------------|------------------|------------------|------------------|-----------|------|
| Method | pH meter | Thermo meter | Conductivity meter | Standard | Standard | SP | SP | SP | FAAS | SP | FAAS | SP | Titration | FAAS | FAAS | FAAS | FAAS | SP | Extraction/ FAAS | Extraction/ FAAS | Extraction/ FAAS | SP | Extraction/ FAAS | Extraction/ FAAS | Extraction/ FAAS | Extraction/ FAAS | Titration | |
| Practical Quantitation Limit | 0 | 0 Deg C | 0.02 | 0.5 | 0.13 | 0.2 | 0.02 | 0.1 | 0.08 | 5 | 0.2 | 0.6 | 20 | 0.5 | 0.05 | 0.05 | 0.1 | 0.1 | 0.0015 | 0.025 | 0.005 | 0.01 | 0.005 | 0.001 | 0.005 | 0.005 | 20 | |
| Unit | | Deg C | mS/m | mg CaCO3/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg CaCO3/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | |
| Bankabarsi | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AR-JSRb-SSB-R | 27-Mar-01 | 7.21 | 28.1 | 248 | 104 | 1560 | <PQL | <PQL | 18 | <PQL | <PQL | 3.9 | 550 | 555 | 81 | 23 | 480 | 10 | 2.8 | <PQL | <PQL | 0.0052 | <PQL | <PQL | <PQL | 0.014 | 0.012 | 52 |
| AR-JSRb-SSB-AD | 27-Mar-01 | 7.99 | 27.9 | 6.95 | 2.39 | 44.5 | <PQL | <PQL | 19 | <PQL | <PQL | 0.50 | <PQL | 46.3 | <PQL | 0.24 | 0.41 | 2.0 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.068 | <PQL |
| Chandrapur | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AR-JhKc-SSB-R | 02-Mar-01 | 7.06 | 24.4 | 80.6 | 133 | 516 | <PQL | <PQL | 1.7 | 0.64 | <PQL | 3.6 | 2.4 | 453 | 110 | 27 | 19 | 2.5 | 0.39 | <PQL | <PQL | <PQL | 0.023 | <PQL | <PQL | <PQL | 0.064 | <PQL |
| AR-JhKc-SSB-AD | 02-Mar-01 | 7.07 | 25.2 | 4.18 | 1.43 | 26.8 | 0.40 | <PQL | 4.6 | <PQL | <PQL | 0.32 | 0.88 | 22.2 | 1.1 | 0.38 | 0.71 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.095 | <PQL |
| AR-JhKc-SSV-AD | 02-Mar-01 | 6.37 | 25.0 | 1.68 | 1.47 | 10.8 | 0.32 | <PQL | 2.2 | <PQL | <PQL | 0.41 | 0.60 | <PQL | 1.1 | 0.41 | 0.60 | <PQL | <PQL | <PQL | <PQL | 0.020 | <PQL | <PQL | <PQL | 0.012 | <PQL | |
| AR-JhKc-SSV-R | 26-Mar-01 | 7.17 | 27.3 | 11.1 | 22.8 | 70.9 | 1.5 | <PQL | <PQL | <PQL | <PQL | 0.56 | <PQL | 68.3 | 17 | 5.8 | 1.2 | 3.5 | 0.12 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.10 | 39 |
| AR-JhKc-SSV-AD | 29-Mar-01 | 7.18 | 27.4 | 77.5 | 134 | 496 | 2.9 | 2.9 | <PQL | 0.51 | <PQL | 3.8 | 2.2 | 426 | 110 | 21 | 16 | 5.9 | 0.45 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.0059 | 0.31 | 39 |
| Bara Dudpatila | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AR-CdBd-SSB-R | 15-Feb-01 | 7.17 | 24.6 | 68.4 | 110 | 438 | 0.53 | 0.62 | <PQL | 0.45 | <PQL | 1.7 | 12 | 379 | 87 | 23 | 17 | 3.1 | 0.18 | <PQL | <PQL | <PQL | <PQL | 0.0063 | <PQL | <PQL | 0.0051 | <PQL |
| AR-CdBd-SSB-AD | 15-Feb-01 | 6.56 | 24.3 | 3.58 | 2.34 | 22.9 | <PQL | 0.020 | 1.5 | <PQL | <PQL | 0.31 | 0.63 | 22.8 | 1.6 | 0.76 | 4.0 | <PQL | 0.11 | <PQL | <PQL | <PQL | <PQL | <PQL | <PQL | 0.0060 | 0.10 | <PQL |

Excess of WHO guideline
Excess of Bangladesh Standard
Excess of both Bangladesh Standard and WHO guideline

(The values were determined as exceeding the standards before rounding off)