**Kotagiri - Baseline Survey Data Analysis**

This survey pertains only to those habitations where keystone has been intervening over the years.

Table1.1: List of Panchayats with the no. of habitations surveyed

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Panchayat** | **Total no. of habitations** | **No. of habitations surveyed** |
| 1 | Aracode | 18 | 15 |
| 2 | Denad | 41 | 5 |
| 3 | Jackanarai | 33 |  |
| 4 | Kadinamala | 10 |  |
| 5 | Kengarai | 40 |  |
| 6 | Kodanad | 10 | 9 |
| 7 | Konavakkarai | 41 |  |
| 8 | Kunjappanai | 30 |  |
| 9 | Naduhatty | 32 |  |
| 10 | Nedugula | 44 |  |
| 11 | Thengumarahada | 8 |  |

*Source with date of access:* [*http://indiawater.gov.in*](http://indiawater.gov.in) *on 29 Dec,2016*

Table1.2: Demographic details

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No** | **Habitation Name** | **Village Panchayat** | **SC popln** | **ST popln** | **GEN popln** | **Total popln** | **No. of HHs** | **No. of HHs surveyed** |
| 1 | Bangalapadigai | Aracode | 0 | 45 | 0 | 45 | 15 | 33 |
| 2 | Bargur | Aracode | 0 | 40 | 0 | 40 | 13 | 10 |
| 3 | Bavikkarai | Aracode | 26 | 2 | 0 | 28 | 8 | 4 |
| 4 | Chakkapadigai | Aracode |  |  |  |  |  |  |
| 5 | Garikiyur | Aracode | 0 | 80 | 0 | 80 | 15 | 44 |
| 6 | Kokkode | Aracode | 30 | 3 | 0 | 33 | 9 | 18 |
| 7 | Kumaramudi | Aracode | 0 | 50 | 0 | 50 | 12 | 12 |
| 8 | Mallikoppaiyur | Aracode | 0 | 60 | 0 | 60 | 15 | 22 |
| 9 | Mudiyur | Aracode | 24 | 3 | 0 | 27 | 7 | 6 |
| 10 | Nadur | Aracode | 0 | 45 | 0 | 45 | 12 | 12 |
| 11 | Pamparai | Aracode |  |  |  |  |  |  |
| 12 | Pongamukkai | Aracode |  |  |  |  |  |  |
| 13 | Samigudar | Aracode | 30 | 3 | 0 | 33 | 9 | 12 |
| 14 | Selarai | Aracode | 0 | 73 | 0 | 73 | 16 | 8 |
| 15 | Vakkanamaram | Aracode | 24 | 2 | 0 | 26 | 7 | 23 |
| 16 | Chedikal | Denad | 0 | 38 | 0 | 38 | 12 | 6 |
| 17 | Gurukundha | Denad |  |  |  |  |  |  |
| 18 | Kadasolai | Denad | 0 | 53 | 0 | 53 | 20 |  |
| 19 | Kil Kattabettu | Denad | 0 | 42 | 0 | 42 | 12 | 5 |
| 20 | Mel Kattabettu | Denad | 0 | 42 | 0 | 42 | 10 | 3 |
| 21 | Anthiyarai | Kadinamala | 20 | 0 | 0 | 20 | 6 | 8 |
| 22 | Bettola | Kadinamala | 0 | 0 | 17 | 17 | 5 | 2 |
| 23 | Kandipatti | Kadinamala | 57 | 31 | 7 | 95 | 28 | 12 |
| 24 | Kolikuttai | Kadinamala | 43 | 0 | 0 | 43 | 8 | 6 |
| 25 | Koliyatti | Kadinamala | 20 | 0 | 0 | 20 | 6 | 5 |
| 26 | Koppaiyur | Kadinamala | 20 | 0 | 0 | 20 | 6 | 11 |
| 27 | Kothimukkai | Kadinamala | 57 | 31 | 7 | 95 | 28 | 13 |
| 28 | Nandipatti | Kadinamala | 0 | 0 | 56 | 56 | 19 | 6 |
| 29 | Thumbibettu | Kadinamala |  |  |  |  |  |  |
|  | Total |  | 351 | 643 | 87 | 1081 | 298 | 281 |

*Source with date of access:* [*http://indiawater.gov.in*](http://indiawater.gov.in) *on 29 Dec,2016*

**Summary observations**

Table1.3: Summary observations

|  |  |  |
| --- | --- | --- |
| **S No.** | **Item** | **Number** |
| 1 | Total Number of tribal habitations in the region | 29 |
| 2 | No. of habitations surveyed | 29 |
| 3 | Total number of households |  |
| 4 | Number of households surveyed  % of households surveyed | 323 |
| 5 | Households harvesting rain water at home | 0% |
| 6 | Average water storage capacity in a household (in liters) | 392 liters |
| 7 | % of households with storage capacity of 1000 liters or less | 84% |
| 8 | % of households with storage capacity of 500 liters or less | 80% |
| 9 | % of households with storage capacity of 250 liters or less | 78% |
| 10 | Average water consumption per family (liters per day)  Maximum water consumption per family (liters per day) | 286-378 LPD (across seasons)  1400-1850 LPD (across seasons) |
| 11 | Number of habitations with only spring water supply | 11 |
| 12 | Number of habitations with spring and open well water supply | 3 |
|  | Number of habitations with spring and stream water supply |  |
| 13 | % of Households practicing Open Defecation | 54% |
| 14 | Number of habitations reporting Open Defecation  % of habitations reporting Open Defecation | 26  87% |
| 15 | Number of habitations with Community Toilets | 2 |
| 16 | Number of habitations reporting usage of Community Toilets | 2 |
| 17 | Number of habitations reporting collection of waste at the doorstep | Nil |
| 18 | Number of habitations reporting waste bins being located | 1 (doubtful) |
| 19 | % of households reporting purchase of water | Nil |
| 20 | % of households reporting water borne diseases | 67% |

*Source with date of access: Basic Habitation Survey, Keystone Foundation 2016*

**Water use pattern**

Figure1.1: Water use pattern by the households

*Source with date of access: Basic Habitation Survey, Keystone Foundation 2016*

**Water Supply Situation**

Table1.4: Water supply sources in habitations

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S No.** | **Habitation Name** | **Sources** | **Source Type(s)** | **Supply** | **Issues reported in surveys** |
|  | Bangalapadigai | Pulimava bavi | Open well | 24/7 throughout the year |  |
|  | Bargur | Kambalakarai | Stream | 24/7 throughout the year |  |
|  | Bavikarai | Sajbas odai | Stream | 24/7 throughout the year |  |
|  | Garikiyur | Vage gundi | Spring | 24/7 throughout the year |  |
|  | Kumaramudi | Kullangarai  Vaikaimara bavi | Stream  Spring | Stream-24/7 throughout the year  Spring-12hrs throughout the year |  |
|  | Kokkode | Kullangarai  Dhonikkarai | Stream  Open well | 24/7 throughout the year |  |
|  | Mallikoppaiyur | Vasankarai | Stream | 24/7 throughout the year |  |
|  | Mudiyur | Sakkekadavu | Open well | 24/7 throughout the year |  |
|  | Nadur | Vekkikerai | Stream | 24/7 throughout the year |  |
|  | Pambarai | Kinaru  Odai neer | Open well  Stream | 24/7 throughout the year |  |
|  | Pongamokkai | Sakkekadavu | Open well | 24/7 throughout the year |  |
|  | Sakkapadigai | Sakkebavi | Open well | 24/7 throughout the year |  |
|  | Samaigodal | Konkarai bavi  Kadankarai bavi | Spring  Spring | 24/7 throughout the year |  |
|  | Selarai | Neerthotti | Spring | 24/7 throughout the year |  |
|  | Vakkanamaram | Kullangarai | Stream | 24/7 throughout the year |  |
|  | Koliyatty | Koliyatty | Spring | 24/7 throughout the year |  |
|  | Bettola | Kullangarai | Open well | 24/7 throughout the year |  |
|  | Kolikkuttai | Pithai attu | Stream | 24/7 throughout the year |  |
|  | Kandipatty | Dhoopakadavu | Spring | 24/7 throughout the year |  |
|  | Koppaiyoor | Pithai attu  Mallabavi | Stream  Spring | 24/7 throughout the year |  |
|  | Neramokkai | Naduvatty naali | Open well/ Spring | 24/7 throughout the year |  |
|  | Kothimukku | Aarasakadavu | Stream | 24/7 throughout the year |  |
|  | Nanthipatty | Aarasakadavu  Nanthipatty | Stream  Open well | 24/7 throughout the year |  |
|  | Andhiyarai | Kullangarai  Andhiyarai bavi | Stream  Open well | 24/7 throughout the year |  |
|  | Sinkaikadu | Dhoopakadavu | Spring | 24/7 throughout the year |  |
|  | Thumbibettu | Eerappanai | Spring | 24/7 throughout the year |  |
|  | Kilkattabettu | Thogabavi  Biliyakerai | Spring  Stream | 24/7 throughout the year |  |
|  | Guruguntha | Karadikuli  Koopu  Eptikarai | Stream  Stream  Spring | 24/7 throughout the year |  |
|  | Melkattabettu | Thottisolai  Denadu Sivan kovil | Spring  Open well | 24/7 throughout the year |  |
|  | Sedikal | Pambarai kerai  Solaur kil bavi | Stream  Open well | 24/7 throughout the year |  |

*Source with date of access: Basic Habitation Survey, Keystone Foundation 2016*

*Figure1.2:* Water Supply Situation in habitations

*Source with date of access: Basic Habitation Survey, Keystone Foundation 2016*

**Water Quality Issues**

*Table1.5:* Water Quality Issues reported by households

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Habitation Name** | **Sources** | **Source Type(s)** | **Problem** |
| 701 | Bangalapadigai | Pulimava bavi | Open well | No |
| 702 | Bargur | Kambalakarai | Stream | No |
| 703 | Bavikarai | Sajbas odai | Stream | No |
| 704 | Garikiyur | Vage gundi | Spring | No |
| 705 | Kumaramudi | Kullangarai  Vaikaimara bavi | Stream  Spring | No |
| 706 | Kokkode | Kullangarai  Dhonikkarai | Stream  Open well | No |
| 707 | Mallikoppaiyur | Vasankarai | Stream | No |
| 708 | Mudiyur | Sakkekadavu | Open well | No |
| 709 | Nadur | Vekkikerai | Stream | No |
| 710 | Pambarai | Kinaru  Odai neer | Open well  Stream | No |
| 711 | Pongamokkai | Sakkekadavu | Open well | No |
| 712 | Sakkapadigai | Sakkebavi | Open well | No |
| 713 | Samaigodal | Konkarai bavi  Kadankarai bavi | Spring  Spring | No |
| 714 | Selarai | Neerthotti | Spring | No |
| 715 | Vakkanamaram | Kullangarai | Stream | No |
| 731 | Koliyatty | Koliyatty | Spring | No |
| 732 | Bettola | Kullangarai | Open well | No |
| 733 | Kolikkuttai | Pithai attu | Stream | No |
| 734 | Kandipatty | Dhoopakadavu | Spring | No |
| 735 | Koppaiyoor | Pithai attu  Mallabavi | Stream  Spring | No |
| 736 | Neramokkai | Naduvatty naali | Open well/ Spring | No |
| 737 | Kothimukku | Aarasakadavu | Stream | No |
| 738 | Nanthipatty | Aarasakadavu  Nanthipatty | Stream  Open well | No |
| 739 | Andhiyarai | Kullangarai  Andhiyarai bavi | Stream  Open well | No |
| 741 | Sinkaikadu | Dhoopakadavu | Spring | No |
| 740 | Thumbibettu | Eerappanai | Spring | No |
| 751 | Kilkattabettu | Thogabavi  Biliyakerai/ Eptikerai | Spring  Stream | Muddy water, drainage mixed |
| 752 | Guruguntha | Karadikuli  Koopu  Eptikarai | Stream  Stream  Spring | Koopu stream- Muddy water, drainage mixed |
| 753 | Melkattabettu | Thottisolai  Denadu Sivan kovil | Spring  Open well | Denadu Sivan kovil- Oily, drainage mixed |
| 754 | Sedikal | Pambarai kerai  Solaur kil bavi | Stream  Open well | Pambarai kerai- Oily, drainage mixed |

*Source with date of access: Basic Habitation Survey, Keystone Foundation 2016*

**Habitations where Community Toilets are present and being used**

*Table1.6:* Habitations where community toilets are present

|  |  |  |  |
| --- | --- | --- | --- |
| **Habitation id** | **Habitation name** | **Community Toilet Present** | **Community Toilet in use** |
| 701 | Bangalapadigai | N |  |
| 702 | Bargur | N |  |
| 703 | Bavikarai | N |  |
| 704 | Garikiyur | N |  |
| 705 | Kumaramudi | Y | Y |
| 706 | Kokkode | N |  |
| 707 | Mallikoppaiyur | N |  |
| 708 | Mudiyur | N |  |
| 709 | Nadur | N |  |
| 710 | Pambarai | N |  |
| 711 | Pongamokkai | N |  |
| 712 | Sakkapadigai | N |  |
| 713 | Samaigodal | N |  |
| 714 | Selarai | N |  |
| 715 | Vakkanamaram | N |  |
| 731 | Koliyatty | N |  |
| 732 | Bettola | N |  |
| 733 | Kolikkuttai | N |  |
| 734 | Kandipatty | N |  |
| 735 | Koppaiyoor | N |  |
| 736 | Neramokkai | N |  |
| 737 | Kothimukku | Y | Y |
| 738 | Nanthipatty | N |  |
| 739 | Andhiyarai | N |  |
| 741 | Sinkaikadu | N |  |
| 740 | Thumbibettu | N |  |
| 751 | Kilkattabettu | N |  |
| 752 | Guruguntha | N |  |
| 753 | Melkattabettu | N |  |
| 754 | Sedikal | N |  |

*Source with date of access: Basic Habitation Survey, Keystone Foundation 2016*

*Table1.7:* Habitations where open defecation is practised

**Habitations where Open Defecation is being practised**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Habitation ID** | **Habitation Name** | **HHs reporting OD** | **Surveyed HHs** | **% reporting OD** |
| 701 | Bangalapadigai | 31 | 33 | 94 |
| 702 | Bargur | 1 | 10 | 10 |
| 703 | Bavikarai | 1 | 4 | 25 |
| 704 | Garikiyur | 0 | 44 | 0 |
| 705 | Kumaramudi | 5 | 12 | 42 |
| 706 | Kokkode | 16 | 18 | 89 |
| 707 | Mallikoppaiyur | 0 | 22 | 0 |
| 708 | Mudiyur | 6 | 6 | 100 |
| 709 | Nadur | 0 | 12 | 0 |
| 710 | Pambarai | 13 | 13 | 100 |
| 711 | Pongamokkai | 7 | 7 | 100 |
| 712 | Sakkapadigai | 4 | 4 | 100 |
| 713 | Samaigodal | 6 | 12 | 50 |
| 714 | Selarai | 8 | 8 | 100 |
| 715 | Vakkanamaram | 23 | 23 | 100 |
| 731 | Koliyatty | 4 | 5 | 80 |
| 732 | Bettola | 2 | 2 | 100 |
| 733 | Kolikkuttai | 5 | 6 | 83 |
| 734 | Kandipatty | 5 | 12 | 42 |
| 735 | Koppaiyoor | 6 | 11 | 55 |
| 736 | Neramokkai | 5 | 6 | 83 |
| 737 | Kothimukku | 1 | 13 | 8 |
| 738 | Nanthipatty | 0 | 6 | 0 |
| 739 | Andhiyarai | 3 | 8 | 38 |
| 741 | Sinkaikadu | 1 | 4 | 25 |
| 740 | Thumbibettu | 7 | 7 | 100 |
| 751 | Kilkattabettu | 4 | 5 | 25 |
| 752 | Guruguntha | 1 | 1 | 100 |
| 753 | Melkattabettu | 3 | 3 | 100 |
| 754 | Sedikal | 6 | 6 | 100 |

*Source with date of access: Basic Habitation Survey, Keystone Foundation 2016*

Figure 1.3: Details of the OD users

**Household toilets**

Figure1.4: No. of habitations with household toilets

*Source with date of access: Basic Habitation Survey, Keystone Foundation 2016*

Table1.8: Status of habitations in waste management

**Status of Waste Management**

|  |  |  |  |
| --- | --- | --- | --- |
| **Habitation ID** | **Habitation Name** | **Waste Collection at Door Step** | **Waste bins setup by Panchayat** |
| 701 | Bangalapadigai | N | N |
| 702 | Bargur | N | N |
| 703 | Bavikarai | N | N |
| 704 | Garikiyur | N | N |
| 705 | Kumaramudi | N | N |
| 706 | Kokkode | N | N |
| 707 | Mallikoppaiyur | N | N |
| 708 | Mudiyur | N | N |
| 709 | Nadur | N | N |
| 710 | Pambarai | N | N |
| 711 | Pongamokkai | N | N |
| 712 | Sakkapadigai | N | N |
| 713 | Samaigodal | N | N |
| 714 | Selarai | N | N |
| 715 | Vakkanamaram | N | N |
| 731 | Koliyatty | N | N |
| 732 | Bettola | N | N |
| 733 | Kolikkuttai | N | N |
| 734 | Kandipatty | N | N |
| 735 | Koppaiyoor | N | N |
| 736 | Neramokkai | N | N |
| 737 | Kothimukku | N | N |
| 738 | Nanthipatty | N | N |
| 739 | Andhiyarai | N | Y/N |
| 741 | Sinkaikadu | N | N |
| 740 | Thumbibettu | N | N |
| 751 | Kilkattabettu | N | N |
| 752 | Guruguntha | N | N |
| 753 | Melkattabettu | N | N |
| 754 | Sedikal | N | N |

*Source with date of access: Basic Habitation Survey, Keystone Foundation 2016*

Figure 1.5: Household wastes dumping place