



# **DISTRICT STRATEGIC WATER, SANITATION AND HYGIENE PLAN (DSWASHP)**

**(2016 - 2020)**

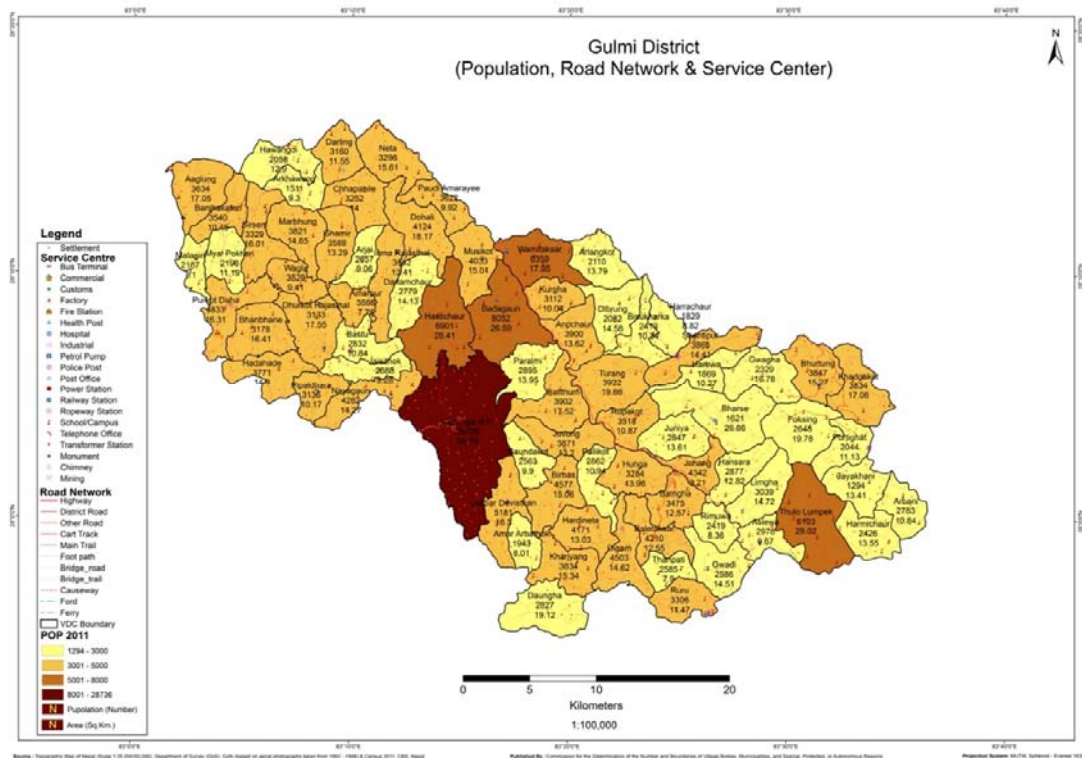
## **GULMI DISTRICT**



**District Water, Sanitation and Hygiene  
Coordination Committee (DWASHCC),  
Gulmi**

This DSWASH Plan was  
Approved by: DDC council  
FY' 2073/74

# DISTRICT STRATEGIC WATER, SANITATION AND HYGIENE PLAN (DSWASHP), GULMI (FY 2016-2020)



**District Development Committee  
Tamghas, Gulmi  
2073**





**Office of the District Co-ordination Committee**  
**Gulmi, Tamghas**  
**Province No. 5, Nepal**

Ref.No.; 3363  
FY:

**Foreword**



In the current context, all Nepali people do not have access to safe drinking water and adequate sanitation. Large part of the population suffers from lack of water even more suffer from lack of safe drinking water, adequate sanitation and good hygienic practice. This leads to high occurrence of water related diseases, people die and suffer from poor health and spend money and time on recovering the diseases.

People in Gulmi are also facing same situation like other remote parts of Nepal, usually women and girls have to spend long time fetching water. Girls drop out of school due to lack of time and due to lack of appropriate sanitation facilities in schools.

District Strategic Water and Sanitation Plan (DSWASHP) is the main WASH sector strategic tool of the district to address the above issues. The five years DSWASHP is support to district in providing WASH support priority areas of the district and strategic action by the year 2020. It guides the DCC in general and the district WASH coordination committee (DWASH-CC) in particular in an effective, equitable, efficient, balanced and sustainable water, sanitation and hygiene services at the local level. This DSWASHP has included the brief introduction of the district, WASH status and strategies, program of action, resource analysis, implementation, and monitoring and resource management. This is the first plan in WASH sector, so different sectors in district will be benefitted. We expect the support and collaboration from the civil society to implement this plan and suggestions for further improvement of this plan in the future.

This plan is developed with the assistance of Rural Water Supply and Sanitation Project in Western Nepal (RWSSP-WN) Phase II. I gratefully acknowledge the person who worked very hard to develop this plan. I would like to thanks the plan preparation taskforce (core team) for their effort. D-WASH-CC is highly appreciated for their valuable input and suggestions during the plan preparation.

At the end, I expect the successful implementation of this DSWASH plan.

*(Signature)* Shrestha  
2074-01-05  
Local Development Officer, Gulmi

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## ABBREVIATIONS

|            |  |
|------------|--|
| CAPA       | Community Adaptation Plan for Action                                 |
| CC         | Coordination Committee   |
| CGD        | Child, Gender and Disable-friendly                                   |
| CLTS       | Community Led Total Sanitation                                       |
| DDC        | District Development Committee                                       |
| DEO        | District Education Office  |
| DPHO       | District Public Health Office  |
| DoLIDAR    | Department of Local Infrastructure Development and Agricultural Road |
| DTO        | District Technical Office  |
| DWASH-CC   | District Water, Sanitation and Hygiene Coordination Committee        |
| DWSS       | Department of Water Supply and Sewerage                              |
| DSWASHP    | District Strategic Water, Sanitation and Hygiene Plan                |
| FY         | Fiscal Year  |
| GoN        | Government of Nepal  |
| HH         | Household  |
| HWTS       | Household Water Treatment System                                     |
| I/NGO      | International/Non-Government Organization                            |
| LAPA       | Local Adaptation Plan for Action                                     |
| LSGA       | Local Self-Governance Act  |
| MDG        | Millennium Development Goal  |
| MLD        | Ministry of Local Development  |
| MPPW       | Ministry of Physical Planning and Works                              |
| MWASHCC    | Municipal Water Sanitation and Hygiene Coordination Committee        |
| NMIP       | National Management Information Program                              |
| NPC        | National Planning Commission   |
| NWSS       | National Water Supply and Sanitation Strategy                        |
| ODF        | Open Defecation Free   |
| OHT        | Overhead tank  |
| SLTS       | School Led Total Sanitation  |
| WUC        | Water User Committee   |
| VDC        | Village Development Committee  |
| V/M-WASHCC | VDC/Municipality WASH Coordination Committee                         |
| V/M-WASHP  | VDC/Municipality WASH Plan   |
| WASH       | Water, Sanitation and Hygiene  |
| WSSDO      | Water Supply and Sanitation Division Office                          |



## CHAPTER – 1: INTRODUCTION

### 1.1 Background

In developing countries, sustainable practice of water, sanitation, and hygiene (WASH) as well as changing behaviour of the people to use such substances in day to day activities are the biggest challenge. Although many people believe that water, sanitation, and hygiene are the basic part of the human life and symbol of civilized society. The priority of the government and the people are still less satisfactory that has created a big anomaly to combat impure drinking water, unsafe hygiene practices, and lack access to sanitation. In Nepal, 20 percent population of the country do not yet have access to clean drinking water, and merely 27 percent of the population has access to basic sanitation. Those who live without access clean drinking water and sanitation have relied on local surface water sources like rivers for bathing and washing clothes (Prasain, 2008).

A well-managed WASH initiative in Nepal was begun in post 2003 that fortified on building an alliance of sectorial organizations and development partners working together on drinking water supply, sanitation issues, and government/public accountability system. With the change in development paradigm and government policy, WASH approach in Nepal has been changing. Water supply had been given priority till 2000. Importance of sanitation came up afterwards. Hygiene has been tied up with sanitation which is still inadequately addressed. Water can be taken from different perspectives; basic need, human rights, livelihood through MUS, climate change and so on.

Figures indicate the water supply coverage in the country now is 85% while sanitation coverage is only 63%. The Government of Nepal has a plan of achieving 80% improved sanitation coverage by 2015 and 100% by 2017. As such, the rate of increment has to be raised to 4.5% per annum to achieve the 2015 target, and 6.3% per annum to achieve the 2017 target. National Sanitation Policy -1994, Water Supply Sector Policy - 1998, Rural Water Supply and Sanitation National Policies, Strategies and the Sector-wise Strategic Action Plan 2004, Nepal Water Plan -2005, Vision Paper of MPPW -2007, the Urban Water Supply and Sanitation Policy 2009 and the Three Years' Approach Paper (2010-2012) are the policies and strategies related to WASH in the country.

To address the issues, many communities in different parts of the country, are intensively engaged to design, implement and manage the WASH projects and other related activities. Upon their deep engagement, WASH projects successfully bring positive impact across the communities for better quality of life. Benefits were generally long-term and pro-poor, and tended to impact women, children, and other disadvantaged groups proportionately. Successful WASH projects effectively address the community needs which are economically, ecologically, and socially appropriate and sustainable.

At the local level, Local Self Government Act 1999 (LSGA) provides an overall framework for decentralized governance. Emphasis is given to the formulation of five-year periodic plans, annual plans, programs and projects at the national and the district levels. The

district periodic plan (DPP) is one of the initiatives that integrates and harmonizes national and local priorities. The district level plans formulated by the District Development Committee (DDC) need to be aligned with the national development plans and policies that include the plans received from the Village Council and municipalities.

In the spirit of national policies and guideline, DWASHCC, Gulmi has already developed district WASH strategy (2009-2013). The strategy has focused on promotion of total sanitation and Total Behaviour Change (TBC) of the people. Coverage, service level improvement and sustainability are the key issues identified in the district WASH sector. To cover the total package of water and total sanitation D-WASH-CC has planned for next 5 years (2016-2020).

Apart from these, strategic planning bestows effectiveness of investment and expenditure of available budget according to the plan. It strictly monitored the present limits of budget and directs not to exceed available funds for expenditure. Thus, planning is a handy tool to informing and educating local communities about government's line agency's budget to engage solving local problems by gaining general public access to school, basic health units and water sanitation. It also helps service provider's existing constraints to improve public services. In addition, this process ensures identification of needs at local level and provides a common platform to the local community, including disadvantaged groups, and empowers them to claim their right for equitable sharing of WASH services within communities. The DSWASHP equally lays emphasis on social sensitization of community on various issues such as gender and inclusion, environmental aspect, climate change.

#### **Essences of the DSWASHP can be further pointed out**

- Align and harmonize WASH sector for effective coordination and collaboration amongst local district level stakeholders
- Show the way on how the district can achieve MDG targets on 2015 and Universal targets by 2017 in water supply and sanitation
- Map and organize all available human and financial resources to be used effectively
- Introduce decentralized and coordinated monitoring of the activities
- Prioritize the areas for support needs
- Promote transparency and awareness among the partners and beneficiaries of the district
- Attract external funding for the implementation of the plan
- Guide district project prioritization in annual planning process
- Institutionalize WASH planning and implementation at district level
- Build the DDC and VDC WASH sector capacity
- Formulating district-specific MDG indicators and establish WASH baseline
- Get support from political parties in WASH implementation
- Help to recognize WASH sector in the district periodic plan and in the district profile
- Promote equity and inclusiveness in WASH.

## **1.2 objectives**

The District Strategic WASH Plan (DSWASHP) is a strategic tool for the district. It guides the district level stakeholders in general and the District WASH Coordination Committee (D-WASH-CC) in hygiene services at the local level.

The overall objective of the district strategic water, sanitation and hygiene plan (DSWASHP), Gulmi (FY 20016-2020) is to develop an integrated plan of WASH to achieve post-2015 development goals & universal targets of achieving basic WASH access facilities for all by 2017 in line with the spirit of National Sanitation and Hygiene Master Plan 2011. The specific objectives are as follows:

- Align and harmonize WASH sector for effective coordination and collaboration amongst local district level stakeholders
- Show the way on how the district can achieve MDG targets on 2015 and Universal Targets by 2017 in water supply.
- Map and organize all available human and financial resources to be used effectively
- Introduce decentralized and coordinated monitoring of the activities
- Prioritize the areas for support needs
- Promote transparency and awareness among the partners and beneficiaries of the district
- Attract external funding for the implementation of the plan
- Guide district project prioritization in annual planning process
- Institutionalize WASH planning and implementation at district level
- Build the DDC and VDC WASH sector capacity
- Formulating district-specific MDG indicators and establish WASH baseline
- Get support from political parties in WASH implementation
- Help to recognize WASH sector in the district periodic plan and in the district profile
- Promote equity and inclusiveness in WASH

## **1.3 Methodology**

A Core Team composed of the representatives of DDC, DTO, WSSSDO, DHO, NGO Network, WDO and DEO was formed by DWASHCC in order to steer ahead the DSWASHP preparation activities effectively and efficiently. Firstly, type and nature of data required for preparing the plan was listed in perspective of set indicators. Available data/information in NMIP, District Sanitation Strategy and information relevant for the purpose from various published and unpublished documents were utilized. Additional information required was gathered from the VDCs and other institutions existing in the district.

### **1.4.1 Data Collection**

The type and nature of data were gathered flowingly:

- Water supply coverage – household, school, institution – first to the hardship area
- Sanitation Coverage - household, school, institution – priority to poor sanitation area

- Functionality of water supply schemes
- Hygiene situation (hand washing practices, waste disposal) – School and institution
- Incidence of water borne diseases
- Poverty situation
- Concentration of deprived and disadvantaged groups
- Remoteness
- Vulnerability of climate change

**Desk Study:** This is the first and foremost task to be carried out before the fieldwork. All the relevant data and information available from central level and districts have been reviewed to complement the WASH planning process. A list of potential data including data gap have been derived from this process.

**Finalization of Indicators and Design of Format for Secondary data collation:** With the help of WASH Guideline different formats for secondary and primary data collection have been designed. Specific data of the districts on climate and energy situation have been analysed based on the need. Similarly, GESI and other related data have been derived from census data as well as local level. During this process, types of data, sources of information (secondary/primary levels), policy and legal provisions and overall planning linkage with national, district and other sectorial plans have been identified and finalized.

**Design of Format for Stakeholder Mapping:** Mapping of stakeholders is one of the major tasks of the WASH planning process. Mainstreaming them into the overall planning process of the local government is essential for the effective implementation of WASH.

**Data Gap Identification and Design of Format for Primary Data Collection:** To collect primary data necessary for the WASH a rapid assessment has been conducted using a set of questionnaire. During the process, data like – geographical, socio-economic, demographic, energy, institutional, gender and social inclusion etc. of the district have been captured. This assessment helped to bridge the data gap by generating new data and verify the data from primary sources.

**Stakeholder Identification and Capacity Needs Assessment:** Stakeholders working in the sector and potential for the project implementation are the integral part of the WASH. A preliminary list of stakeholders has been developed through consultations with DDC officials and organizations working in WASH sector.

**SWOT Analysis:** Existing organizational capacity has been analysed using the SWOT technique that has been used to analyse the capacity of DDC for the implementation of WASH.

**Data Management:** The available data from the DDC based on the provided formats have been cleaned up and managed in excel sheet. Based on the availability of data it has been plotted in MS Excel format. Due to the nature of data available the standard programme/software wouldn't be practical.

**Consultation Meeting and Workshop:** The core team has conducted an inception and planning/validation meetings and series of consultation meetings and workshops in based on the need. Task Force, officials and key organizations were also consulted to explore the situation on climate change, energy and adaptation interventions. DDC had arranged to carry thorough SMs and ward citizen forum meetings. The data related to existing energy use, type and patterns, and possible energy adaptation interventions have been captured during this exercise.

**Preparation (write up) of WASH Plan:** Based on the available information, District Strategic WASH Plan has been drafted by core team with the help of external consultant.

**Preparation of Monitoring and Evaluation Plan:** A detailed monitoring and evaluation plan along with implementation plan have been prepared to monitor post-planning achievement of the DSWASHP.

**Validation and Endorsement from DDC:** The draft WASH has been presented and shared with the wider level of multi stakeholders' forum at the district level to get their feedback, verify the errors, include missing things, increase ownership and inform wider level of stakeholders about the plans and process. The WASH has been endorsed by the Task Force and should be endorsed by the DDC for its authenticity and ownership.

### 1.4.2 Data Analysis

The collected data were analyzed by the core team and prepared a brief report on the available data. MS Excel software were used to analyze the data available from the field office.

**Figure 1.1: Steps of DSWASHP Finalization**





## 1.5 Overview of Gulmi District:

The name of Gulmi district is derived from the word Gulma which means a platoon or command of army.

### ***Geographical Profile***

Gulmi district is situated in the Northern boundary of Lumbini zone of Western Development Region and is boarded by Syangja & Parbat in the East, Pyuthan in West, Baglung in North and Palpa & Arghakhachi in South. Geographically, it is located in the latitude between 27°55'N to 28°27'N and longitude between 83° 10'E to 83° 35' E. Covering an area of 1149 sq km area, which is 0.78 % of total area of Nepal, the altitude ranges from 465 m at Ridi to 2690m at *Madaneko lekh* and *Thapleko lekh*. Similarly, the East-West length of district is approximately 40 Km and the breadth along north-south is 30 km (District profile 2007). The district comprises 3 electoral constituencies and its headquarters is Tamghas, which is the only municipality in the district situated at the bottom Resunga hill and Arjun hill.

Based on the altitudinal range, Gulmi district is broadly divided into three geographical regions; highlands, mid-hill lands and low lands. High land comprises the Eastern West part of Mahabharat range with the altitudes of 7000-9000 feet. The Resunga lekh, Thapleko lekh and Dhardine caves are its key attractions. Similarly, the mid-hill lands consist of lands between the altitude from 3000 to 7000 ft and its major places include Tamghas, Isma, Dhurkot, Charpala, Baletkshar Purkot daha. Low lands consist of areas with the altitude of 1525 to 3000 ft.

Gulmi district in broad is a mountainous region and major proportion of its land is steep in slope. A large proportion of the districts land, 45%, of total, is highly steep whose slope angle is more than 30 degree. Similarly, about 37% of the total area is with gentle slope (District Profile 2007).

**Table 1.1: Steepness of Land of Gulmi District**

| Slope (Degree) | Area     |    | Remarks                      |
|----------------|----------|----|------------------------------|
|                | Hectare  | %  |                              |
| 0-3            | 3748.14  | 3  | Nearly plain land            |
| 3-8            | 6246.90  | 5  | Land with slight undulations |
| 8-18           | 12493.80 | 10 | Land with severe undulations |
| 18-30          | 46227.60 | 37 | Gentle steep                 |
| 30-50          | 24987.60 | 20 | Steep slopes                 |
| >50            | 31234.50 | 25 | Over steep slopes            |

### ***Climate***

Based on the altitude, three types of climate exist in Gulmi district. The climate zone along with the annual temperature is shown in the table.

**Table 1.2: Climate Zone of Gulmi District**

| Altitude (masl)   | Climate        | Mean annual temperature |
|-------------------|----------------|-------------------------|
| Less than 1000    | Sub-tropical   | Greater than 20°C       |
| 1000-2000         | Warm temperate | Greater than 15°C       |
| Greater than 2000 | Cool temperate | 0°C to 15°C             |

Source: District Forest Office Gulmi, 2070)

Similarly, rainfall is a major factor to indicate climate change in any area. Annual mean rainfall from 1981 to 2008 was taken for analysis. The average annual rainfall over the past 28 years shows that it is in decreasing trend with erratic pattern. As per the analysis, mean annual rainfall is decreasing in the order of 15.12 mm per year (DHM 2015). Decrease in rainfall may lead to the decrease in the water yield of the area as the springs or streams which are the sources of drinking water get recharged through the rainfall. The minimum rainfall observed during 1981-2008 also shows the decreasing trend. This shows that both annual mean rainfall and the minimum rainfall are decreasing leading to increased dryness or drought in the area which ultimately affects the water yield of the catchment and sources. According to the precipitation data from 1981-2008, the annual precipitation of the district is 790 mm in 1999 followed by 780 mm in 1999 and 750 mm in 2008. In contrast less than 400 mm in 2004 and 2002.

The overall figure indicates the rainfall highly fluctuated in the district. The following figure shows the rainfall pattern in the Gulmi district. (District and VDC Profile of Nepal 2012).

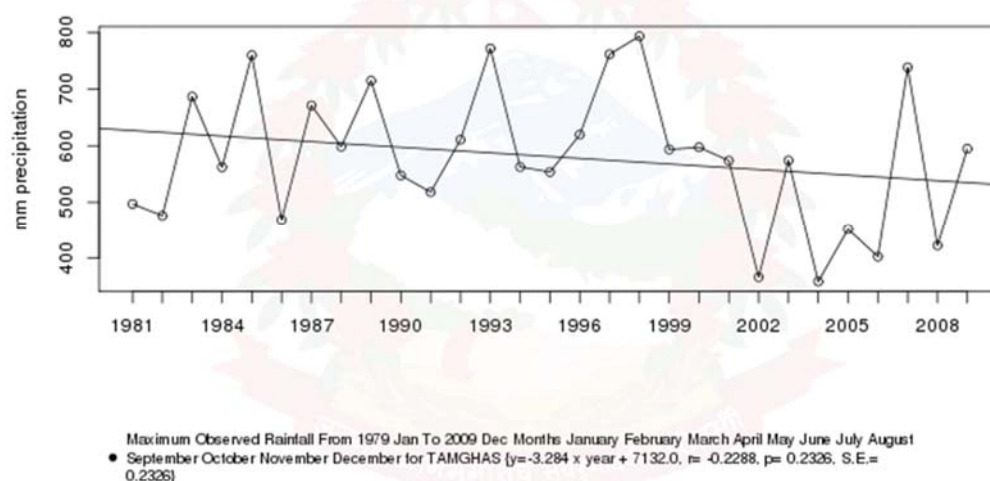
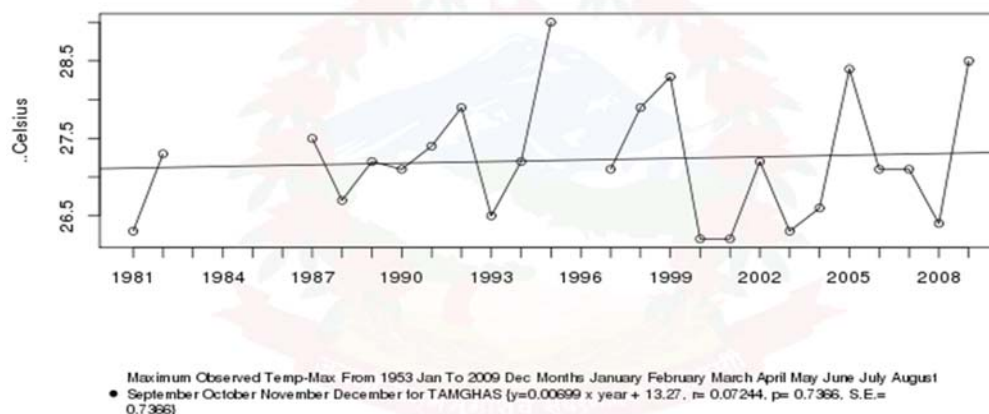


Figure shows over period of 30 years (from 1980 to 2009), average maximum temperature has increased by approximately 1 degree Celsius. During the same period, annual rainfall has reduced from 2000mm (annually) to 1750mm (annually). Years 2002 and 2004-2006 recorded the lowest rainfall since 1981. These trends are similar to the overall climate change trends of Nepal: increasing temperature and reducing/more

erratic rainfall. Reduced rainfall and increased evaporation will affect the availability of water.



Temperature change (increase) is the direct indicator of climate change. The above figure illustrates that the average temperature-maximum is increasing at a rate of  $0.057^{\circ}\text{C}$  per year with highest temperature in the year 2002, which is similar to national average of  $0.06^{\circ}\text{C}$  per year (DHM 2015).

### Population

According to the national census (2011), Gulmi district comprises a total population of 2,80,160 which is 1.2% of country's total population. The population statistics from 1981 to 2011 shows that population of Gulmi district is increasing consistently however, with a drop of 16494 in between 2001 and 2011. The population density followed the pattern of population. Analyzing the other demographic characteristics over this period of time, the sex ratio and average family size are consistently decreasing while the total HHs and literacy rate are consistently increasing. In 2011, the population growth rate is observed as minus 0.46%. For the same fiscal year, there are 64921 HHs with average HH size of 4.32. Similarly, the sex ratio of Gulmi in the year 2001 is lowest among the entire districts of Nepal which could be related to the priority given to male.

**Table 1.3: Population Statistics (1981 to 2011) of Gulmi District**

| Characteristics                | 1981   | 1991   | 2001   | 2011   |
|--------------------------------|--------|--------|--------|--------|
| Total Population               | 238113 | 266331 | 296654 | 280160 |
| Male                           | 115644 | 120795 | 133771 | 120995 |
| Female                         | 122469 | 145536 | 162883 | 159165 |
| Sex Ratio                      | 94     | 83     | 82     | 76.02  |
| Total Households               | 42046  | 50544  | 59189  | 64921  |
| Average Household size         | 5.7    | 5.3    | 5.01   | 4.32   |
| Literacy rate (above 5 yr)     | 31.8   | 48.7   | 57.48  | 72.6   |
| Population Density (Per sq.km) | 207.2  | 231.8  | 258    | 243.83 |

Source: CBS-1981, 1991, 2001, 2011

## Religion Composition

More than 95% of the population residing in Gulmi district is Hindu. Similarly, there are about 4% of populations in the district who are Buddhists. There are few people in Gulmi who follow Islam, Jain, Christian and Sikh.

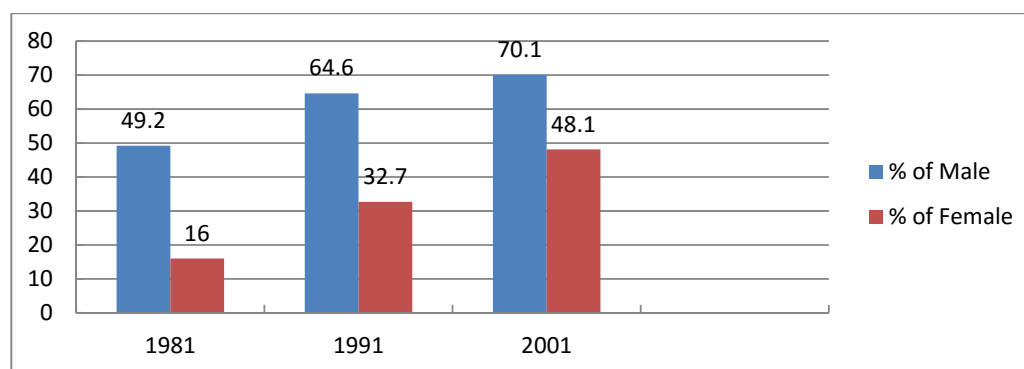
**Table 1.4: Distribution of Population in Gulmi District based on Religion**

| Religion   | Population |            | Religion     | Population    |            |
|------------|------------|------------|--------------|---------------|------------|
|            | Number     | Percentage |              | Number        | Percentage |
| Hinduism   | 285070     | 96.0951    | Jain         | 2             | 0.0007     |
| Buddhism   | 10956      | 3.6932     | Sikh         | 1             | 0.0003     |
| Islamic    | 419        | 0.1412     | Other        | 93            | 0.0313     |
| Christians | 113        | 0.0381     | <b>Total</b> | <b>296654</b> | <b>100</b> |

Source: District profile 2011

## Literacy Rate

Till 2011, the literacy rate of Gulmi district was 72.6 % whilst the national literacy rate is identified as 65.9%, indicating a relative betterment. For all the census year 1981, 1991 and 2001, the proportion of literate male is higher compared to literate female. However, the gap between literate male and female is decreasing over the period of time since; the proportion of literate female has increased considerably high in comparison to male.



**Figure 1.1: Trend of Literacy Rate of Gulmi District**

There are 614 primary schools, 197 lower secondary schools, 133 secondary schools, and 51 higher secondary schools in this district with total of 2057 number of teachers involved in those institutions. There are 160036 numbers of students all together in those institutions till 2012/13.

**Table 1.5: Literacy Status of Gulmi District**

| Education level  | Number     |               | No of teacher | Number of students |       |       |          |        |
|------------------|------------|---------------|---------------|--------------------|-------|-------|----------|--------|
|                  | Government | Institutional |               | Female             | Male  | Dalit | Janajati | Others |
| Primary          | 550        | 64            | 1443          | 22438              | 21192 | 13938 | 14311    | 15381  |
| Lower secondary  | 177        | 20            | 282           | 10784              | 8988  | 4126  | 6339     | 9307   |
| Secondary        | 120        | 13            | 257           | 5449               | 7449  | 1266  | 3002     | 8630   |
| Higher secondary | 49         | 2             | 75            | 2017               | 1701  | 240   | 835      | 2643   |

(Source: Annual agricultural development plan and data book 2012/13)

### **Economic Scenario**

According to district profile (2007), about 70% of total population in the Gulmi is economically active, within those, 57.55% of total comprises female. Highest proportion of the population of Gulmi district lives abroad. Regarding economic activities, the district is renowned for coffee production. The key economic activities of the district are - remittance, coffee plantation, livestock, tourism and agriculture. According to the agriculture development program and data book (2012/13), altogether 4445 *Ropani* land is under coffee plantation. The produced coffee is sold both in the internal and external market, outside the country.

### **Health Scenario**

Regarding the health issues of energy uses, indoor air pollution due to use of traditional cooking stoves and fire wood is regularly highlighted by different NGO's and community. In Gulmi, there are 7 types of health service centres accounting 85 in number (Table 7). There is one district hospital and one district Ayurveda hospital. Furthermore, there are 48 sub-health posts working actively to provide services to the people.

**Table 1.6: Health Services in Gulmi District**

| Types of Health Services   | Number | Types of Health Services     | Number |
|----------------------------|--------|------------------------------|--------|
| District hospital          | 1      | Illaka health center         | 12     |
| District Ayurveda hospital | 1      | Health posts                 | 16     |
| Ayurveda health center     | 3      | Sub-health posts             | 48     |
| Primary health center      | 4      | Total health service centers | 85     |

(Source: District health office, 2070)

### **Energy Access Scenario**

More than 90% of the HHs of Gulmi district use firewood energy for cooking purpose (Table). LPG is the second major energy source fulfilling about 7% of people's energy demand. The use of LPG is limited to urban and semi urban areas where there is transportation access. In addition, the few people of Gulmi also use cow dung and electricity. Similarly, for lightning purpose, electricity and kerosene are the main sources of energy in Gulmi. The use of biogas plants for lightning purpose is minor and its usage rate is decreasing.

**Table 1.7: Major Sources of Energy for Cooking Purpose in Gulmi District**

| Type         | Households |            | Type        | Households   |            |
|--------------|------------|------------|-------------|--------------|------------|
|              | Number     | Percentage |             | Number       | Percentage |
| Firewood     | 59844      | 92.23      | Cow dung    | 26           | 0.04       |
| LPG          | 4394       | 6.77       | Others      | 16           | 0.02       |
| Bio gas      | 244        | 0.38       | Electricity | 6            | 0.01       |
| Kerosene     | 197        | 0.30       | Not stated  | 160          | 0.25       |
| <b>Total</b> |            |            |             | <b>64887</b> | <b>100</b> |

(Source: District and VDC Profile of Nepal, 2012)



## Land Distribution and Natural Resources

As per the annual agriculture development program book (2012/13), the land use pattern of Gulmi district shows that agricultural land is the dominant land covering 85670.25 ha, i.e. 57.2% of total land. Major proportion of agricultural land is covered by sloppy land (Pakho), 87.6% and the rest is farm land (Khet). Coffee, potato, rice, wheat, maize, millet, barley, fapar, mustard and cereals pea are the major crops cultivated in the district. Similarly, forest area is second dominant land use in the district covering 38.1% of total area. These forests are managed under community forest (CF), leasehold forest (LF), religious forest (RF), private forest and national forest.



Figure 1.2: Land use Map of Gulmi District

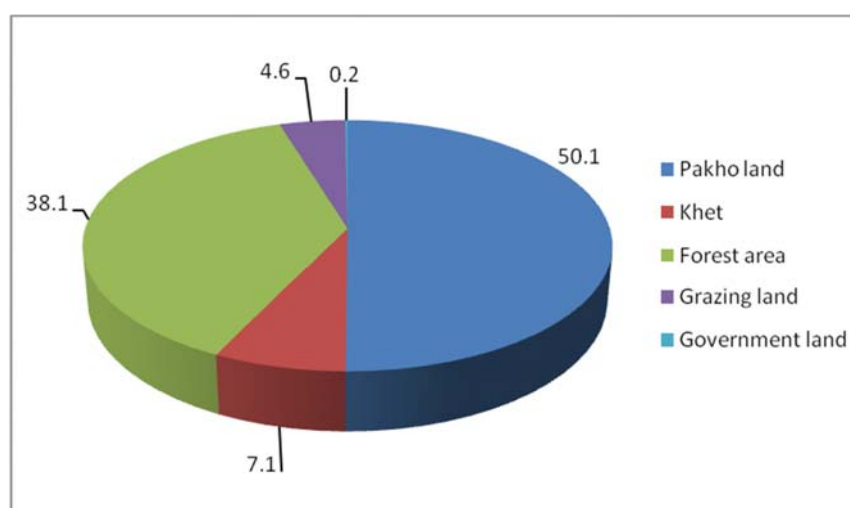
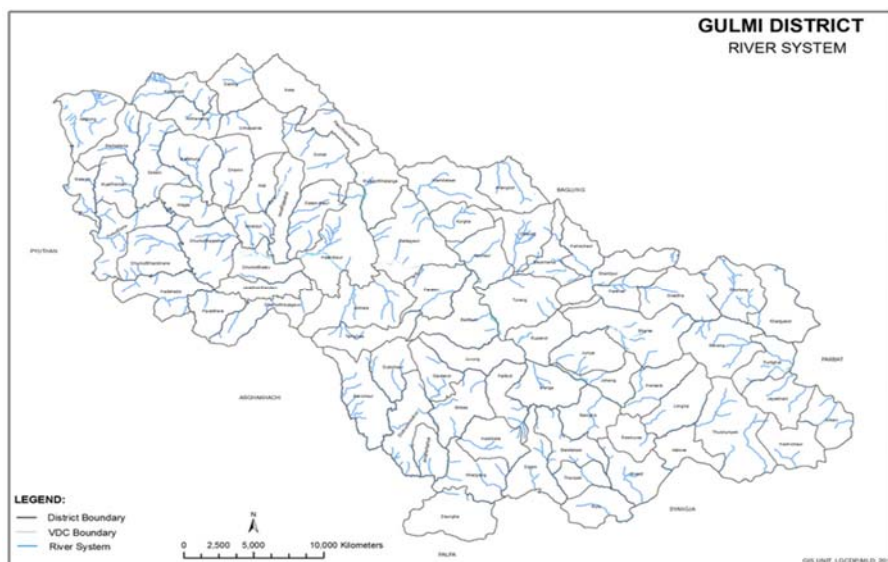


Figure 1.3: Land Use Pattern of Gulmi District

### ***Water Resources and River Systems***

The major rivers in Gulmi district are Kaligandaki, Wadiguard, Nisti, Ridi, Chaldi, and Panaha.



**Map 1.4: River System of Gulmi District**

### ***Road and Infrastructure***

Roadways are no doubt, a key for development. Most of the VDCs of Gulmi district, 57 VDCs out of 79 VDCs, has well access to road. The road density is identified as 11km/100 sq.km (District and VDC profile of Nepal 2012). The Tansen –Tamghas road of Gulmi district touches the Siddhartha highway. It is 74 kilo meters in length.



**Figure 1.5: District Road Network**

The total length of road networks of Gulmi district is recorded as 1079 km. The major portion of the total road length, 58.3%, is covered by seasonal road while graveled road covers only 7%.

**Table 1.8: Road Networks of Gulmi District**

| Type of road            | Length (KM)  |
|-------------------------|--------------|
| National highway        | Not situated |
| Seasonal road           | 629          |
| Under construction road | 375          |
| Graveled road           | 75           |

(Source: District Profile-2007)

Agriculture road network are the roads constructed with the emphasis in agricultural sectors to make reach of agricultural pocket sectors to the market or to storage facilities. There is around 30 km of this road which is constructed by District Agriculture Office budget.

**Table 1.9: Agricultural Road of Gulmi District**

| Agriculture road         | Length(km) |
|--------------------------|------------|
| Rudrabeni –Ashlewa       | 9.9        |
| Dandakateri-Nayagaun     | 10         |
| Gaidakot-juvung-Ratamata | 10         |

(District profile, DDC)

### ***Irrigation***

The cultivated area of Gulmi covers 22.8% of total area of the district i.e. 34102 ha (149799 ha). Similarly, the total irrigable land comprises 6.7 % of total area which is about 30% of cultivated land. The total irrigable land, 10068 ha, is divided into seasonal irrigable land, 81% and all time irrigable land, 19% (Annual agriculture development program and data book 2012/13).

### ***Electricity***

Electricity is the main sources of energy for lightening and operating various equipment. Electricity are predominantly supplied in urban areas and nearby settlements with the national grid of Nepal Electricity Authority (NEA), while in remote area, electricity is supplied mainly through micro and pico hydro, solar home systems and biogas plants.

Out of total 79 VDCs of Gulmi, 52 VDCs have well access to electricity. According to District Development Committee of Gulmi, there are altogether 33000 HHs which have access to electricity from national grid system. According to NEA till 2013, 52 VDCs have access to electricity with total number of users of 12957.

**Table 1.10: Access of Electricity in Gulmi District**

| Particulars                                   | Unit   | Amount     |
|---|--------|------------|
| No of VDC access of electricity               | Number | 52         |
| No of VDC without electricity                 | Number | 27         |
| Total users                                   | Number | 12957      |
| VDC participated in rural electricity program | Number | 15         |
| Total electricity consume in unit             | NRs.   | 4658201    |
| Total income annually from electricity        | NRs.   | 27,585,213 |

*Source: Nepal Electricity Authority 2013*

### ***Banks and Financial Institutes***

According to the District and VDC profile of Gulmi district, various banks and finance company are providing financial services to the people residing in district till 2012. Till mid of April 2012, the financial institutions in the district comprises 5 commercial banks, 12 development banks and 1 finance company. Similarly, there are altogether 159 co-operative operated throughout the district.

**Table 1.11: Financial Institutes of Gulmi District**

| Bank and Finance | 2010 | Mid July 2011 | Mid-April 2012 |
|------------------|------|---------------|----------------|
| Commercial Bank  | 3    | 3             | 5              |
| Development Bank | 2    | 10            | 12             |
| Finance Company  | 0    | 0             | 1              |

*(Source: District and VDC Profile of Nepal)*

### ***Non-governmental Organizations (NGOs)***

Many NGOs work together at national level for the development of community in different sector like poverty, renewable energy and environmental issues etc. In Gulmi, more than 122 NGOs are working in various sectors. The highest number of NGOs is working in community development sector followed by youth development.

**Table 1.12: Non-governmental Organizations of Gulmi District**

| Sector                | Number | Sector            | Number |
|-----------------------|--------|-------------------|--------|
| Community development | 76     | Children Welfare  | 2      |
| Youth development     | 29     | Moral development | 1      |

*(Source: District and VDC profile of Nepal 2012)*

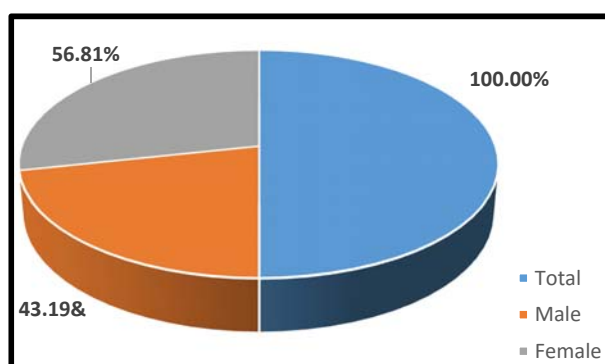
### ***Industries***

A total of 853 industries have been registered in Gulmi district. The diesel and electric mill comprises a major proportion of the registered industries as well as the functioning industries. It covers 43.6% of registered and 48.1% of functional industries. Similarly, other industry related to construction or bidding and furniture comprises 11% and 8.1% of registered industries respectively. Similarly, a significant proportion of registered industries, 33.2% are un- functional due to various causes.

**Table 1.13: Status of Industries of Gulmi District**

| SN           | Industry type                          | Registered | Status     |             |
|--------------|--|------------|------------|-------------|
|              |  |            | Closed     | Functioning |
| 1            | Diesel and electric mill               | 372        | 98         | 274         |
| 2            | Construction or bidding                | 94         | 55         | 39          |
| 3            | Furniture industry                     | 69         | 20         | 49          |
| 4            | Computer training                      | 58         | 17         | 41          |
| 5            | Tailoring industry                     | 49         | 22         | 27          |
| 6            | Water mill                             | 41         | 15         | 26          |
| 7            | Hotel and restaurant                   | 37         | 6          | 31          |
| 8            | Bakery item, distillery, and soda mill | 28         | 11         | 17          |
| 9            | Glasses, shoes, copy, photocopy etc    | 24         | 11         | 13          |
| 10           | Box, grill workshop                    | 31         | 7          | 24          |
| 11           | Forming textile, sirak                 | 22         | 12         | 10          |
| 12           | Hand made                              | 9          | 5          | 4           |
| 13           | Chalk, cement industry                 | 9          | 3          | 6           |
| 14           | Brick made industry                    | 5          | 1          | 4           |
| 15           | Company                                | 5          | 0          | 5           |
| <b>Total</b> |  | <b>853</b> | <b>283</b> | <b>570</b>  |

(Source: District Profile-2064)



**Figure 1.7: Distribution of Population in Gulmi District**

As per National Census 2011, 82.68% household families have access to pipe/tap water in the district. 3.91% get water from covered Kuwa/shallow well and 0.12% with hand pump. 5.69% rely on open Kuwa/shallow well, 6.5% on spout stone and 0.59% on river. Similarly, 100% household families have latrine.

In the district, there are different health services: 1 government hospital, 3 PHCC/HC, 10 HP, 55 SHP, 214 PHC outreach clinic, 240 EPI clinic and 612 FCHVs.

In the district, there are 1,110 schools (627 primary schools, 236 lower secondary, 160 secondary and 87 higher secondary) having 96,438 total students (47,644 in primary schools, 25,306 in lower secondary, 14,792 in secondary and 8,696 higher secondary). There are 17 different colleges/campuses in the district.



## **1.6 Study Limitation**

The study is based on primary and secondary information sources. Additionally, desk and literature review, and consultation meeting with WASH actors who are directly and indirectly contributed resources in WASH development activities were conducted. Functionality data of all DWS Schemes is missing and analysis was done based on available data only.

## **CHAPTER – 2: WATER, SANITATION AND HYGIENE SITUATION**

### **2.1 Water Supply Situation**

Water is one of the most basic elements for all living beings on this earth. It is used for various purposes, such as for cooking food, washing clothes, bathing, growing crops, construction work and for generating hydro-electricity. Although Nepal is rich in her water resources, the rural and urban areas of hills and Terai are yet being plagued by the problem of water scarcity. In most of the remote and rural areas, people drink directly from the sources like rivers, spring, and ponds. However, these open sources of water are polluted and contaminated that consequences water-borne diseases like dysentery, typhoid and cholera. Every year many infants, children and adults of rural parts of the country are demised due to unsafe drinking water and sanitation practices. Additionally, people are acutely affected by unsafe and mismanaged water and sanitation system in urban areas.

In Gulmi district in the Western Development Region of Nepal, dry season is as long as eight months. About 90% of total annual rainfall is received during four months in the summer season. Although almost all VDCs are provisioned with water supply, the district suffers from alternating cycles of excess water and water scarcity. In order to provide drinking water supply facilities to the communities Resunga Drinking Water Supply Scheme was started in 2002 with 16-kilometer length pipeline and number of distribution outlets were constructed according to the community demand. This project assisted access safe drinking water to communities and to some extent meet the domestic and irrigation needs. In 2009, a cooperative based Water Management Committee (WMC) was formed and constructed a plastic lined water storage tank with the storage capacity of 600,000 liters of rainwater. The storage water was provided facilities for income generating activities such as growing off-seasonal vegetables and rearing improved breed of cattle. In following sub sections, water, sanitation and hygiene situation of Gulmi district has been elaborated.

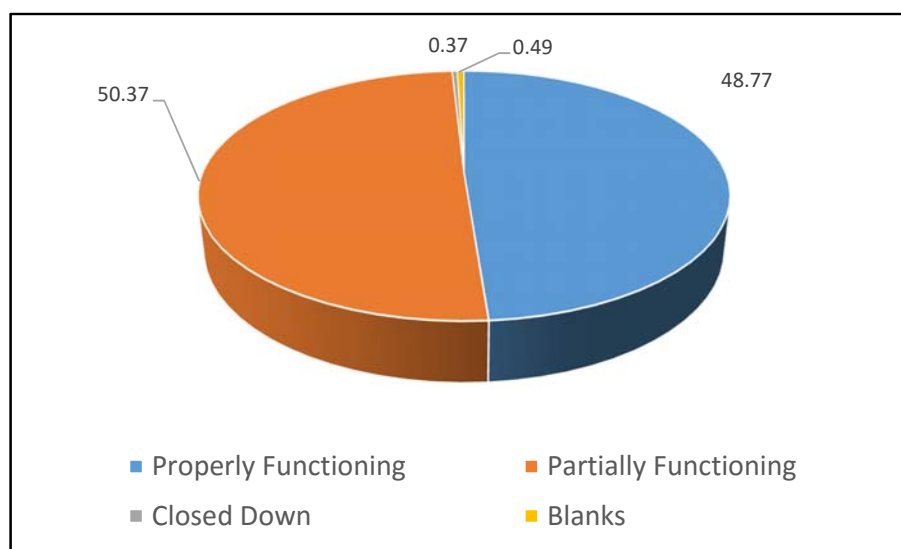
#### **2.1.1 Water Supply Coverage**

In Gulmi district the total number of DWS schemes were 1299 in which 1299 were related with gravity flow. Amongst them 138 projects were 20 years older (NIMP, 2014). Currently, 74.8% HHs are provisioned with drinking water, accounting 82.0% of the total population. The water supply coverage comprises 89.4% of rural population and 10.6% urban population (District and VDC profile of Nepal 2012). Similarly, a total of 79.3% people are getting service of drinking water via water supply office and the rest depends on tube well. Figure indicates amongst of the total distributed taps, 95.1 percent belonged with public taps while only 3.0 percent taps were distributed for private households. Similarly, 1.5 percent households relied on spring sources and dug well by 0.5 percent.

**Table 2.1: Functional status of Drinking Water Supply Schemes**

| Project Status        | Number | Percentage |
|-----------------------|--------|------------|
| Properly Functioning  | 396    | 48.77      |
| Partially Functioning | 409    | 50.37      |
| Closed Down           | 3      | 0.37       |
| Blanks                | 4      | 0.49       |
| TOTAL                 | 812    | 100.00     |

Source: Primary data collected from field 2014



Report of NMIP (2014) reveals that 77.8 % of the population of the district have access to water supply. The same report indicates that there are 1,229 total schemes, all the schemes being gravity flow in the district.

The NMIP (2014) report also indicates that there are 1339 total schemes, all the schemes being gravity flow in the district. Categorically, 1,150 schemes use springs as a source, 64 use spring fed streams as source, 7 use streams and 101 use the big streams as a source.

**Table 2.2: Number of schemes by source type**

| S. No. | Source Type       | Number |
|--------|-------------------|--------|
| 1.     | Spring            | 1150   |
| 2.     | Spring fed Stream | 64     |
| 3.     | Stream            | 7      |
| 4.     | Big Stream        | 101    |
| 5.     | Other             | 17     |

Source: NMIP 2014

However, the primary data collected by district shows that only 64.70 percent households have access to piped water. In Gulmi district, most people living in rural areas still rely on traditional sources of drinking water such as natural springs, rivers, dhunge dhara (stone spout), kuawa (surface well), pokhari/kunda (pond dug-well), and shallow tube well, stone tap, and stream

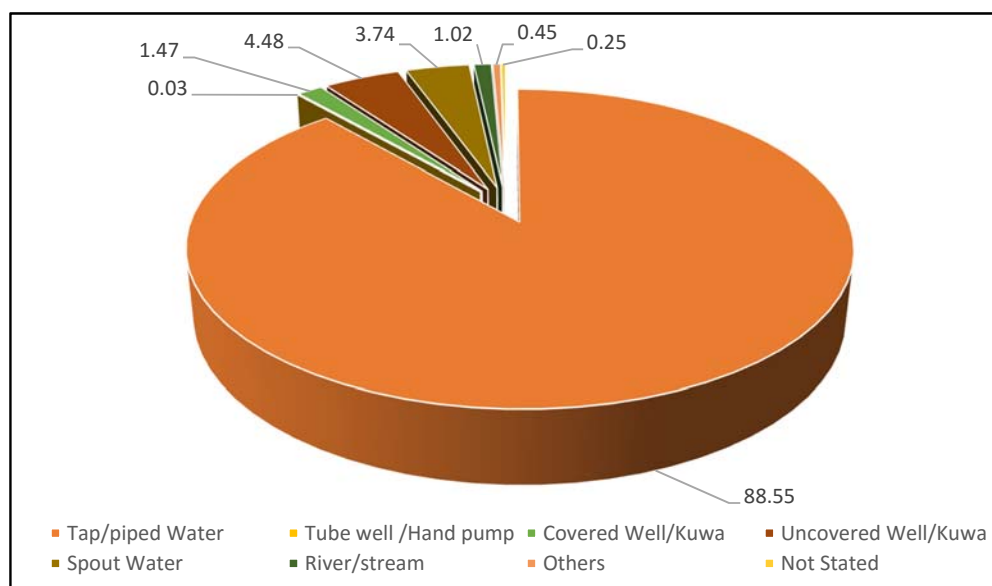
river. Many efforts have been made to provide easy access by governments, nongovernmental organizations (NGOs), bilateral and multilateral agencies, and the private sector to safe drinking water in Gulmi district, despite that merely 75 percent of HHs have access to drinking water supply. Considering the figure, only 64% HHs out of total HHs have available safe piped drinking water. The global report estimates that every year, unsafe drinking water and lack of basic sanitation kills at least 10,500 children in Nepal as a result of water and sanitation-related diseases. The clear need for basic water and sanitation services for the poor assumes even greater significance when the linkages with other dimensions of poverty are considered.

Census report 2011 indicates that 88.51 percent households had access Tap/piped Water out of 64,921 households. Others were remained Tube well /Hand pump (0.03%), Covered Well/Kuwa (1.47%), Uncovered Well/Kuwa (4.48%), Spout Water (3.74%), River/stream (1.02%), others (0.45%), and Not Stated (0.25%).

**Table 2.3: Means of Water Supply Situation in Gulmi District**

| S. No. | Main source of drinking water | Number of Covered Households | Percentage of covered households |
|--------|-------------------------------|------------------------------|----------------------------------|
| 1      | Tap/piped Water               | 57,460                       | 88.51                            |
| 2      | Tube well /Hand pump          | 20                           | 0.03                             |
| 3      | Covered Well/Kuwa             | 957                          | 1.47                             |
| 4      | Uncovered Well/Kuwa           | 2,909                        | 4.48                             |
| 5      | Spout Water                   | 2,425                        | 3.74                             |
| 6      | River/stream                  | 662                          | 1.02                             |
| 7      | Others                        | 295                          | 0.45                             |
| 8      | Not Stated                    | 193                          | 0.30                             |
|        | TOTAL                         | 64,921                       | 100                              |

Source: CBS, 2011



**Chart 2.1: Percentage of Water Supply Situation in Gulmi District (Figure shows in percentage)**

Coverage of households are varied in Gulmi district substantially by the sources of drinking water. Out of the total distribution, 36% percent people are yet to be relied on unsafe drinking water. The following table depicts the water supply situation in Gulmi district. The details of Water supply situation has been given in Annex 2

**Table 2.4: Sources of Water Supply and benefitted Households in Gulmi District**

| Total HHs          | Total Pop | HH drinking water from Piped Supply-tap | HH drinking water from Point Source | HH drinking water from Protected Kuwa / pandhero-dhara | HH drinking water from Un Protected Kuwa / pandhero-stone tap | HH drinking water from stream / river | HH drinking water from canal | HH drinking water from Pond | HH drinking water from RWH | Total HHs having access to improved DWS facilities | % of Total HHs having access to DWS | % of HHs Unserved |
|--------------------|-----------|---|-------------------------------------|--|---|---------------------------------------|------------------------------|-----------------------------|----------------------------|--|-------------------------------------|-------------------|
| 64921              | 280,160   | 40972                                   | 4464                                | 1640   | 2163  | 1349                                  | 255                          | 202                         | 2059                       | 42612  | 66.33                               | 33.67             |
| Percentage/Average |           | 63.11                                   | 6.88                                | 2.53   | 3.33  | 2.08                                  | 0.39                         | 0.31                        | 3.17                       | 65.64  | 66.33                               | 33.67             |

Source: CBS, 2011; Primary field survey data collected by DDC, 2014

The above table indicates 63.11% HHs have access of drinking water from Piped Supply-tap. Out of them, 6.88% HHs have access of drinking water from Point Source followed by 3.33% HHs used drinking water from Protected Kuwa / Pandhero-Dhara and 2.53% HHs used drinking water from unprotected Kuwa / Pandhero-stone taps. As for the access of improved DWS facilities, only 66.54% average HHs have access to drinking water. In contrast 33.67% HHs are still unserved for access to drinking water supply. Other figures remain negligence for drinking water services.

### 2.1.2 Schemes Functionality

Functionality is the ability to perform a task or functions. In the concern of project designing and implementation, functionality is a set of functions that are able to achieve the result of project in an expected manner. As for the functionality status, three types of functionality positions were remained that are closed down projects, partially running projects, and properly functioning projects.

During the analysis of functionality of the projects, all projects were assessed for whole-year supply initially. Then the status of physical components and management systems were observed. Projects that were functioning and need no repairs were categorized as 'well-functioning'. Projects that were functioning and need repairs that are within the capacity of users (with no external inputs required) were categorized as 'need minor repair'. The projects that were functioning but need major repairs (with external inputs for construction components and technical supports required) are categorized as 'need major repair'. Projects that were functioning at their design level but were incapable of meeting present demand in quantity and/or quality are categorized as 'need rehabilitation'. Projects that were defunct and need major technical and financial inputs from external sources as well as sizeable contributions from users before they can function again were categorized as 'need reconstruction'. Key indicators of good management include technical human resources (Water Supply and Sanitation Technician (WSST), availability of essential tools and plant, institutionalization of the users' organization (Water and Sanitation Users' Committee (WSUC)),



and the existence of an operation and maintenance (O&M) fund.

Figure shows 1,229 schemes were in operation at the Gulmi district as a whole. Amongst them 22.08% were properly functioning while 64.50% were partially functioning. A least amount 98.46%) of projects were already closed down.

In addition, some 19.4 percent of the piped water systems were in well-functioning state, followed by 53.2 percent belong to the need minor repair category, 5.9 percent were in major repair status, 11.5 per cent need rehabilitation, 10.0 percent need reconstruction. The details of the status is illustrated below.

Table 2.5: Functionality of the projects

| Status of the Functionality | Well-functioning | Need minor repair | Need major repair | Need rehabilitation | Need reconstruction |
|-----------------------------|------------------|-------------------|-------------------|---------------------|---------------------|
| Coverage of the Percentage  | 19.4             | 53.2              | 5.9               | 11.5                | 10.0                |

Source: NMIP, 2011

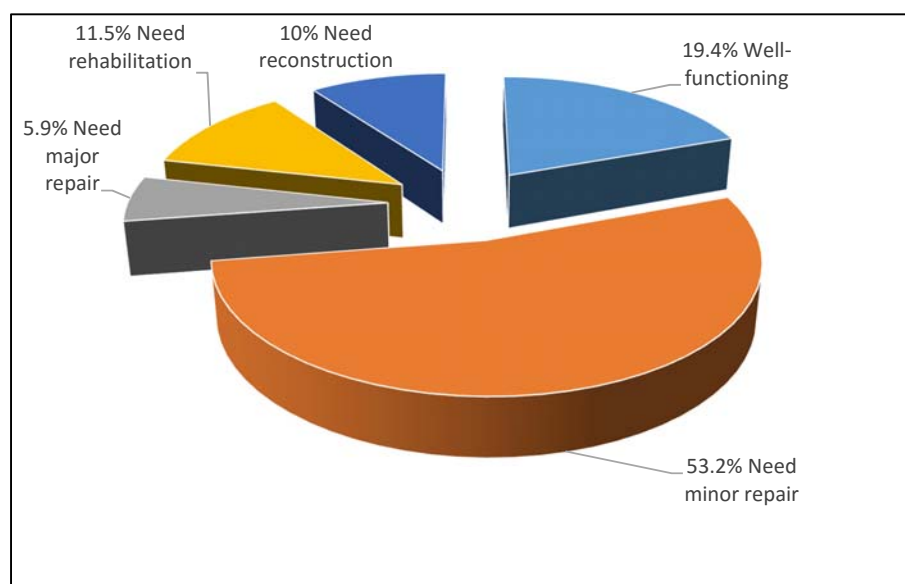


Chart 2.2: Condition of piped water supply systems

Table 2.6: Status of drinking water projects in Gulmi district

| Benefited HH | No. of Intake | No. of functional intake | No. of RVT | No. of Functional RVT | No. of CC/DC | No. of Functional CC/DC | No. of Taps | No. of Functional Taps |
|--------------|---------------|--------------------------|------------|-----------------------|--------------|-------------------------|-------------|------------------------|
| 3371         | 706           | 636                      | 841        | 748                   | 537          | 494                     | 8025        | 7148                   |

Source: Field survey, 2070

From 2053 to 2058, FINIDA initiated to build drinking water supply schemes jointly with VDC at Dhurkot Nayagaun where 2 intakes and 9 RVTs were constructed. From the schemes, 50 taps were distributed and 233 households were benefited. Nevertheless, both projects were closed down at currently due to passiveness of the water user committees.

Table 2.7: Status partially running DWS schemes in Gulmi district

| No. of Intake | No. of functional intake | No. of RVT | No. of Functional RVT | No. of CC/DC | No. of Functional CC/DC | No. of Taps | No. of Functional Taps |
|---------------|--------------------------|------------|-----------------------|--------------|-------------------------|-------------|------------------------|
| 492           | 439                      | 563        | 486                   | 375          | 336                     | 4220        | 3520                   |

Source: Field survey, 2070

In Gulmi district, it was recorded that 439 projects were constructed from 2022 to 2057, which were provided benefit to 28636 households. However, such projects were partially functioning. Among the projects 492 intakes were constructed in which only 439 intakes were partially running while 563 RVTs were functional. Besides these 4,220 taps were established during the period of project launch while 3,520 taps were in operation presently. As for the WUSCs, some committees were active while others were somehow active and few were passive that led some projects were only partially running and few were completely closed down.

**Table 2.8: Status of properly functioning DWS schemes in Gulmi district**

| Benefited HH | No. of Intake | No. of functional intake | No. of RVT | No. of Functional RVT | No. of CC/DC | No. of Functional CC/DC | No. of Taps | No. of Functional Taps |
|--------------|---------------|--------------------------|------------|-----------------------|--------------|-------------------------|-------------|------------------------|
| 10065        | 167           | 155                      | 199        | 196                   | 144          | 140                     | 3379        | 3253                   |

Source: Field survey, 2070

Above table indicates 167 water intakes out of 155 were properly running in Gulmi district while remaining were partially in operation. Similarly, 196 RVTs, 144 CC/DCs were properly functioning.

Similarly, the following table indicates 40 water intakes were closed down in Gulmi district. Similarly, 68 RVTs, 17 CC/DCs were closed down.

**Table 2.9: Status of closed down DWS schemes in Gulmi district**

| No. of Intake | No. of RVT | No. of CC/DC | No. of Functional CC/DC | No. of Taps | No. of Functional Taps |
|---------------|------------|--------------|-------------------------|-------------|------------------------|
| 40            | 68         | 17           | 17                      | 351         | 300                    |

Source: Field survey, 2070

### 2.1.3 Drinking Water Supply in Schools and Other Institutions

#### a) Schools

Out of 548 community schools in the district, 334 (61%) have water supply facilities and the rest 214 (39%) do not have any. The students of these schools lacking water supply systems carry either water themselves or visit the houses in the neighbourhood of their schools for water when they are thirsty.

Of the existing water supply systems in schools, gravity, covered well/Kuwa, uncovered well/Kuwa and tube wells are the major systems found in the schools. Functionality of the system has not been categorized. The functional status should be indicated to fully functional, need of minor repair, need major repair and waiting for rehabilitations. Detail on number of schools, number of students, and functional status of each water system should be generated

in coming days. Details of information have been mentioned in Annex-1.2 priority order of VDCs and Municipality by water supply facilities in schools.

#### b) Other Institutions

To provide the WASH service in Gulmi district, 43 organizations such as FINIDA, M.B.C, GOI, Redcross, HABITAT, British M.B.C, DSWDO, NPC, GWS, GARDEP, Center Scheme, FunBoard, Bu.pu.Sainika, NA, division Office, Kadari Khane Pani, EEC, EC, CDF, ADB, HELVITAS, N.N.M.B.C, Rastiya Janjagarana Aviyan, District Water Office Gulmi, UNDCEF, Grid Nepal, World Bank, UNICEF, Kadari, Local People, and DDC/Municipality/VDCs were directly involved. Through these organizations, 411 schemes were constructed and 39118 HHs were directly benefitted. The following table presents the status of the Drinking Water Supply Schemes supported by various institutions. The details of the tables presents in Annex 9.

**Table 2.9: HDPE Pipe leaked of Drinking Water Supply Schemes supported by various institutions**

| No of Schemes | Benefited HH | HDPE pipe exposure |     |    | Leakage in Pipeline |     |    | Overall Functional Status |       |    |
|---------------|--------------|--------------------|-----|----|---------------------|-----|----|---------------------------|-------|----|
|               |              | MP                 | SP  | NE | MP                  | SP  | NL | PF                        | Par-F | CD |
| 411           | 39118        | 81                 | 258 | 72 | 76                  | 277 | 58 | 100                       | 307   | 4  |

**Note:** MP = Many Places; SP = Some Places; NE = Not Exposed, NL = No Leakage;  
PF= Properly Functioning; Par-F= Partially Functioning; CD= Closed Down

**Table 2.10: overall functional status of Drinking Water Supply Schemes supported by various institutions**

| WUSC activeness |                |         | O&M Fund Raising |    | VMW |     | Water tariff |     |
|-----------------|----------------|---------|------------------|----|-----|-----|--------------|-----|
| Active          | Somehow Active | Passive | Yes              | No | Yes | No  | Yes          | No  |
| 89              | 273            | 41      | 88               | 0  | 204 | 201 | 203          | 208 |

**Note:** MP = Many Places; SP = Some Places; NE = Not Exposed, NL = No Leakage;  
PF= Properly Functioning; Par-F= Partially Functioning; CD= Closed Down

### ADB supported projects in Gulmi district

| Name of Scheme             | Benefited HH | Name of Source             | Type of Source (Spring, Stream/River) | HDPE pipe exposure | Leakage in Pipeline | No. of Intake | No. of functional intake | No. of RVT | No. of Functional RVT | No. of Taps | No. of Functional Taps | Overall Functional Status | WUSC activeness |
|----------------------------|--------------|----------------------------|---------------------------------------|--------------------|---------------------|---------------|--------------------------|------------|-----------------------|-------------|------------------------|---------------------------|-----------------|
| Bhalu Pokhari Water Scheme | 107          | Bhalu Pokhari Water Scheme | Point Source                          | Not Exposed        | No Leakage          | 2             | 2                        | 2          | 2                     | 17          | 17                     | Partially Functioning     | Somehow Active  |
| Kholi Kheta Water Scheme   | 60           | Kholi Kheta Water Scheme   | Point Source                          | Not Exposed        | Some Places         | 2             | 1                        | 2          | 2                     | 20          | 20                     | Partially Functioning     | Active          |
| <b>TOTAL</b>               | <b>167</b>   |                            |                                       |                    | <b>TOTAL</b>        | <b>4</b>      | <b>3</b>                 | <b>4</b>   | <b>4</b>              | <b>37</b>   | <b>37</b>              |                           |                 |

### British Embassy supported projects in Gulmi district

| Name of VDC | Benefited HH | Name of Source | Type of Source | HDPE pipe exposure | Leakage in Pipeline | No. of Intake | No. of functional intake | No. of RVT | No. of Functional RVT | No. of CC/DC | No. of Functional CC/DC | No. of Taps | No. of Functional Taps | Overall Functional Status | WUSC activeness |
|-------------|--------------|----------------|----------------|--------------------|---------------------|---------------|--------------------------|------------|-----------------------|--------------|-------------------------|-------------|------------------------|---------------------------|-----------------|
| Gwa gha     | 44           | Kharpani       | Point Source   | Some Places        | Some Places         | 1             | 1                        | 1          | 1                     | 2            | 2                       | 2           | 2                      | Properly Functioning      | Somehow Active  |

### Ex-Army supported projects in Gulmi district

| Name of VDC | Name of Scheme          | Year of Construction | Benefited HH | Name of Source | HDPE pipe exposure | Leakage in Pipeline | No. of Intake | No. of functional intake | No. of RVT | No. of Functional RVT | No. of CC/DC | No. of Functional CC/DC | No. of Taps | No. of Functional Taps | Overall Functional Status | WUSC activeness |
|-------------|-------------------------|----------------------|--------------|----------------|--------------------|---------------------|---------------|--------------------------|------------|-----------------------|--------------|-------------------------|-------------|------------------------|---------------------------|-----------------|
| Bisukharka  | Bhatikhola Water Scheme | 2042                 | 105          | Bhaun Pani     | Some Places        | Some Places         | 1             | 1                        | 3          | 3                     |              |                         | 18          | 18                     | Partially Functioning     | passive         |
|             |                         |                      | <b>105</b>   |                |                    | <b>TOTAL</b>        | <b>1</b>      | <b>1</b>                 | <b>3</b>   | <b>3</b>              | <b>0</b>     | <b>0</b>                | <b>18</b>   | <b>18</b>              |                           |                 |

### DDC supported projects in Gulmi district

| Name of VDC   | Benefited HH | HDPE pipe exposure | Leakage in Pipeline | No. of Intake | No. of functional intake | No. of RVT | No. of Functional RVT | No. of CC/DC | No. of Functional CC/DC | No. of Taps | No. of Functional Taps | Overall Functional Status | WUSC activeness |
|---------------|--------------|--------------------|---------------------|---------------|--------------------------|------------|-----------------------|--------------|-------------------------|-------------|------------------------|---------------------------|-----------------|
| Resunga NP    | 10           | Not Exposed        | No Leakage          | 2             | 2                        |            |                       |              |                         | 2           | 2                      | Properly Functioning      | Somehow Active  |
| Resunga NP    | 7            | Some Places        | Some Places         | 1             | 1                        | 1          | 1                     |              |                         | 2           | 2                      | Properly Functioning      | Active          |
| IsmaRajasthal | 15           | Some Places        | Some Places         |               |                          |            |                       |              |                         | 3           | 3                      | Partially Functioning     | Somehow Active  |
| Chhapahile    | 20           | Some Places        | Some Places         | 1             | 1                        | 1          | 1                     |              |                         | 4           | 4                      | Partially Functioning     | Somehow Active  |
| Chhapahile    | 30           | Some Places        | Some Places         | 1             | 1                        |            |                       |              |                         | 10          | 10                     | Partially Functioning     | Somehow Active  |
| Bhanbhane     | 40           | Some Places        | Some Places         | 1             | 1                        | 2          | 2                     |              |                         |             |                        | Partially Functioning     | Active          |
| Bhanbhane     | 70           | Some Places        | Some Places         | 1             | 1                        | 2          | 2                     |              |                         |             |                        | Properly Functioning      | Active          |

| Name of VDC     | Benefited HH | HDPE pipe exposure | Leakage in Pipeline | No. of Intake | No. of functional intake | No. of RVT | No. of Functional RVT | No. of CC/DC | No. of Functional CC/DC | No. of Taps | No. of Functional Taps | Overall Functional Status | WUSC activeness |
|-----------------|--------------|--------------------|---------------------|---------------|--------------------------|------------|-----------------------|--------------|-------------------------|-------------|------------------------|---------------------------|-----------------|
| Bhanbhane       | 63           | Some Places        | Some Places         |               |                          |            |                       |              |                         |             |                        | Partially Functioning     | Somewhat Active |
| Bhanbhane       | 200          | Some Places        | Some Places         | 1             | 1                        | 2          | 2                     |              |                         | 27          | 20                     | Partially Functioning     | Active          |
| Bhanbhane       | 80           | Some Places        | Some Places         |               |                          |            |                       |              |                         |             |                        | Closed Down               |                 |
| Baletaksar      | 35           | Some Places        | Some Places         | 1             | 1                        | 1          | 1                     | 1            | 1                       | 6           | 6                      | Partially Functioning     | Somewhat Active |
| DhurkotNayagan  | 85           | Many Places        | Some Places         | 1             | 1                        | 3          | 3                     | 3            | 3                       | 14          | 9                      | Partially Functioning     | Somewhat Active |
| DhurkotNayagan  | 50           | Not Exposed        | Some Places         | 1             | 1                        | 1          | 1                     | 3            | 3                       | 10          | 10                     | Properly Functioning      | Active          |
| Thulolumpek     | 277          | Some Places        | Many Places         | 4             | 4                        | 15         | 15                    | 7            | 7                       | 301         | 301                    | Properly Functioning      | Somewhat Active |
| Kurgha          | 48           | Some Places        | Some Places         |               |                          | 1          | 1                     |              |                         |             |                        | Partially Functioning     | Somewhat Active |
| Digam           | 25           | Some Places        | No Leakage          | 1             | 1                        | 1          | 1                     |              |                         | 4           | 4                      | Partially Functioning     | Somewhat Active |
| Digam           | 32           | Many Places        | Some Places         | 1             | 1                        |            |                       |              |                         | 3           | 3                      | Closed Down               | Somewhat Active |
| Digam           | 24           | Not Exposed        | No Leakage          | 2             | 2                        | 2          | 2                     |              |                         | 6           | 6                      | Closed Down               | Active          |
| Thanpati        | 44           | Some Places        | Many Places         | 5             | 5                        | 1          | 1                     |              |                         | 6           | 7                      | Properly Functioning      | Somewhat Active |
| Darbardevisthan | 106          | Some Places        | Some Places         | 3             | 3                        | 3          | 3                     | 2            | 2                       | 20          | 18                     | Partially Functioning     | Somewhat Active |
| Harmichaur      | 87           | Some Places        | Some Places         | 1             | 1                        | 1          | 1                     | 1            | 1                       |             |                        | Partially Functioning     | Somewhat Active |
| Johang          |              | Some Places        | Some Places         |               |                          | 2          | 2                     |              |                         |             |                        | Properly Functioning      | Active          |
| Johang          | 122          | Many Places        | Many Places         | 5             | 5                        |            |                       | 3            | 3                       | 17          | 17                     | Partially Functioning     | Somewhat Active |
| Limgha          | 40           | Many Places        | Some Places         |               |                          | 1          | 1                     |              |                         | 6           | 9                      | Properly Functioning      | Active          |
| MyalPokhari     | 75           | Many Places        | Some Places         | 1             | 1                        | 1          | 1                     |              |                         | 5           | 5                      | Partially Functioning     | Active          |
| Musikot         | 24           | Not Exposed        | Some Places         | 1             | 1                        | 2          | 2                     |              |                         | 8           | 7                      | Partially Functioning     | Somewhat Active |
| Juniya          | 10           | Many Places        | Some Places         | 1             | 1                        |            |                       |              |                         |             |                        | Partially Functioning     | Somewhat Active |
| Purtighat       | 84           | Some Places        | Some Places         |               |                          | 2          | 2                     | 1            | 1                       | 8           | 8                      | Partially Functioning     | Somewhat Active |
| Sirseni         | 25           | Some Places        | Some Places         | 1             |                          |            |                       |              |                         | 15          | 15                     | Partially Functioning     | Somewhat Active |
| Sirseni         | 50           | Not Exposed        | Some Places         | 1             | 1                        | 2          | 2                     |              |                         | 30          | 30                     | Properly Functioning      | Active          |

| Name of VDC      | Benefited HH | HDPE pipe exposure | Leakage in Pipeline | No. of Intake | No. of functional intake | No. of RVT | No. of Functional RVT | No. of CC/DC | No. of Functional CC/DC | No. of Taps | No. of Functional Taps | Overall Functional Status | WUSC activeness |
|------------------|--------------|--------------------|---------------------|---------------|--------------------------|------------|-----------------------|--------------|-------------------------|-------------|------------------------|---------------------------|-----------------|
| Khadgakot        | 23           | Many Places        | Many Places         |               |                          | 1          | 1                     |              |                         | 5           | 5                      | Partially Functioning     | passive         |
| Khadgakot        | 8            | Some Places        | Some Places         | 1             | 1                        | 1          | 1                     |              |                         | 1           | 1                      | Properly Functioning      | Active          |
| Darling          | 28           | Some Places        | Some Places         | 1             | 1                        | 1          | 1                     |              |                         | 31          | 31                     | Properly Functioning      | Active          |
| PaudhiAmarayee   | 18           | Some Places        | Some Places         | 2             | 2                        | 1          | 1                     | 4            | 4                       | 4           | 4                      | Partially Functioning     | Somehow Active  |
| PaudhiAmarayee   | 36           | Not Exposed        | Some Places         | 1             | 1                        | 1          | 1                     | 5            | 5                       | 8           | 8                      | Partially Functioning     | Somehow Active  |
| Pallikot         | 35           | Some Places        | Some Places         | 1             | 1                        | 3          | 3                     |              |                         | 20          | 20                     | Partially Functioning     | Somehow Active  |
| Wamitaksar       | 866          | Not Exposed        | No Leakage          | 1             |                          | 1          |                       | 9            | 7                       | 80          | 69                     | Partially Functioning     | passive         |
| Wamitaksar       | 500          | Not Exposed        | Some Places         | 1             |                          | 4          |                       | 6            |                         | 40          | 40                     | Partially Functioning     | Somehow Active  |
| Gaidakot         | 60           | Not Exposed        | Some Places         | 1             | 1                        | 1          | 1                     | 1            | 1                       | 13          | 13                     | Partially Functioning     | passive         |
| DhurkotRajasthal | 40           | Not Exposed        | Some Places         | 1             | 1                        | 1          | 1                     |              |                         | 12          | 12                     | Partially Functioning     | Active          |
| Arje             | 56           | Some Places        | Some Places         | 1             | 1                        | 1          | 1                     | 1            | 1                       | 8           | 8                      | Properly Functioning      | Active          |
| Aaglung          | 70           | Some Places        | Some Places         | 1             | 1                        | 1          | 1                     | 2            | 2                       | 7           |                        | Partially Functioning     | Somehow Active  |
| Hardineta        | 25           | Some Places        | Some Places         | 1             | 1                        | 1          | 1                     |              |                         | 4           | 4                      | Partially Functioning     | Somehow Active  |
| Ruru             | 110          | Not Exposed        | Some Places         | 2             | 2                        | 1          | 1                     | 1            | 1                       | 10          | 10                     | Properly Functioning      | Active          |
| Ruru             | 31           | Some Places        | No Leakage          | 1             | 1                        | 1          | 1                     |              |                         | 5           | 5                      | Partially Functioning     | Active          |
|                  | 166          |                    | TOTAL               | 54            | 51                       | 67         | 62                    | 50           | 42                      | 755         | 726                    |                           |                 |

## 2.2 Sanitation and Hygiene Situation

Sanitation is generally understood as the access to toilet and cleanliness of household and enclosures, process and system that keeps places clean, especially by removing human waste. The sanitation status also denotes the hygienic condition in the given place and time. Sanitation coverage is expressed in terms of toilets. In Nepal, the national sanitation coverage was mere 6% of the population in 1990 while the coverage reached 62% in 2011 (CBS 2011). The proportion of the population indicates 38% were still absent in sanitation systems. There were several reasons have been contributed to achieve the significant result. These were the Social Movement for Sanitation, schools were key players who collaborated with communities to declare their catchment areas ODF. The School Led Total Sanitation (SLTS) and Community Led Total Sanitation (CLTS) were some of the initiatives introducing the universal approach which



led thousands of schools and communities to declare their catchment areas ODF. The sanitation situation of the district is unevenly distributed across VDCs and communities as well as rural and urban areas.

Gulmi District declared Open Defecation Free on 11th July 2015. There are 75 Village Development Committees and one Municipality in Gulmi District, which had already declared ODF following the rule and regulation given in the Sanitation and Hygiene Master Plan-2068. Now, 61292 households in the district have toilets. During the sanitation momentum, six public toilets were constructed and a few are under construction. RWSSP-WN II, through the Local Government (DDC), has been supporting the movement through building capacity, conducting sanitation and hygiene promotional activities, and helping the district to prepare ODF plan and strategy.

### 2.2.1 Sanitation Coverage in Disadvantage communities

Gulmi district has been already declared No open defecation free (ODF) district in 26<sup>th</sup> Sanitation is the hygienic means of promoting health through the prevention of human contact with the hazards of wastes. Such hazards can be physical, microbiological, biological or chemical agents of disease. Wastes that can cause health problems are human and animal feces, solid wastes, domestic wastewater, industrial wastes, and agricultural wastes. However, numerous efforts have been paid to manage the waste and sewerage. There are five different sanitation practices to manage the waste and sewerage: Basic sanitation-the management of human feces at the household level; on-site sanitation-the collection and treatment of waste is done where it is deposited; food sanitation-the hygienic measures for ensuring food safety; environmental sanitation-the control of environmental factors that form links in disease transmission i.e. solid waste management, water and wastewater treatment, industrial waste treatment and noise and pollution control; and ecological sanitation-a conceptual approach of recycling to nature the nutrients from human and animal wastes.

According to the District and VDC profile of Nepal (2012), 67% of total population has access to sanitation facility. The well accessed population comprises 90% rural population and only 10% urban population. About 39.4% of total HHs is without toilet. Similarly, approximately half of total HHs use general toilet (District profile 2007). A total of 45939 toilets are recorded in the district of which, 0.73% are unused (district and VDC profile of Nepal, 2012).

In Gulmi district, 80% poor people have toilet facilities and adopted sanitation practices. Similarly, 21% disadvantaged communities are lagging behind from the sanitation practices. The table below indicates the coverage of sanitation in Disadvantaged Communities in Gulmi district.

The Census report 2011 illustrates that 81.41 percent households had access toilet facilities including well facilitated and ordinary toilets. Figure shows 18.36 percent households had no toilet facilities while 0.23 percent households not stated about the toilet facility. The table below indicates the details of toilet facilities in Gulmi district.

**Table 2.11: Households by type of toilet**

| S. No. | Details of toilet facilities | Number of Covered Households | Percentage of covered households |
|--------|------------------------------|------------------------------|----------------------------------|
|--------|------------------------------|------------------------------|----------------------------------|

|   |                                    |        |       |
|---|------------------------------------|--------|-------|
| 1 | Households without toilet facility | 11,913 | 18.36 |
| 2 | Flush toilet                       | 34,608 | 53.34 |
| 3 | Ordinary toilet                    | 18,214 | 28.07 |
| 4 | Facility not stated                | 152    | 0.23  |
|   | TOTAL                              | 64887  | 100   |

Source: CBS, 2011

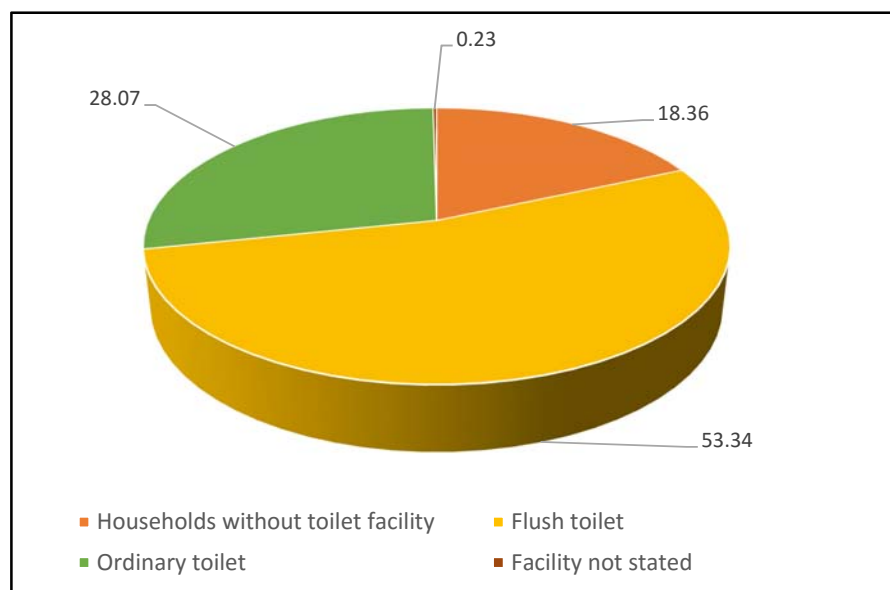


Chart 2.2: Percentage of Households by type of toilet in Gulmi District (Figure shows in percentage)

In addition, the table below shows the sanitation coverage in Gulmi district for disadvantaged communities.

**Table 2.12: Sanitation Coverage in Disadvantaged Communities**

| VDC   | Dalit HH | Adibasi/Janjati HH | Muslim HH | Others | Total  | Permanent/Temporary Toilet | No Toilet | Improved Cooking Stove |
|-------|----------|--------------------|-----------|--------|--------|----------------------------|-----------|------------------------|
| TOTAL | 12502    | 16380              | 37        | 31557  | 60992  | 60198                      | 794       | 33105                  |
| %     | 39.62    | 51.91              | 0.12      | 100.00 | 100.00 | 98.70                      | 1.30      | 54.28                  |

Source: DDC Gulmi, 2072

The above table indicates 98.70 percent Disadvantaged Communities used permanent or temporary toilets where as 1.30 percentage were lag behind from the basic toilet facilities. In addition 54.28 percent disadvantaged communities practiced improved cooking stoves, rest of them had lack access of improved cooking stove.

Additionally, the table below shows the percentage of the households with a toilet with a particular type (pit latrine, water seal, other) and the percentage of the households with a toilet with poorly managed, dirty or unused toilets. Figures below indicates the extrapolated from observed toilets.

**Table 2.13: District-wise functionality of toilets**

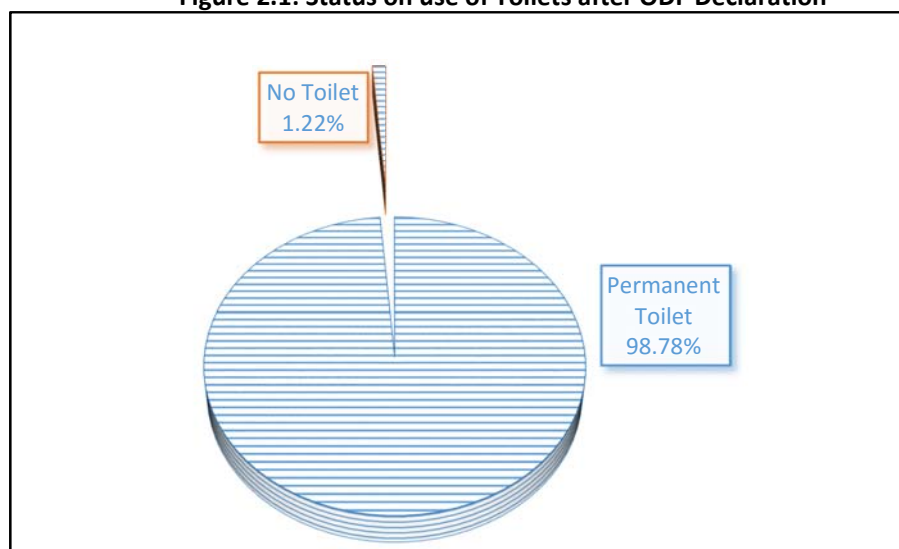
| Functionality of toilets | Total toilets | No. observed | Pit latrine | Water seal | Other types | Poorly managed | Dirty toilet | Unused toilet |
|--------------------------|---------------|--------------|-------------|------------|-------------|----------------|--------------|---------------|
| Percentage               | 45,939        | 9,826        | 32.15       | 47.85      | 0           | 12.01          | 7.26         | 0.73          |

Source: NMIP, 2011

### 2.2.2 Household Sanitation

The district has been already declared ODF zone in July, 2015. ODF declaration report reveals that 60,498 (93.16%) households in the district have improved toilets. However, 1.24 % of the total households are still facing sanitation problem in the district (See Annex 3 for details). This indicates, people are facing the problem to regulate the toilet. Post ODF activities for total sanitation such as use of toilet, behaviour of hand washing after using toilet should be conducted.

**Figure 2.1: Status on use of Toilets after ODF Declaration**



### 2.2.3 School Sanitation

The Government of Nepal has set targets to meet sanitation and water for all by 2017. This includes sanitation and water facilities in all schools as well. The Department of Education (DoE) is the main actor to provide sanitation facilities in community schools; concurrently it has allocated funds for this purpose for the last years. In statistical terms, this means 14 million people are deprived from basic sanitation services; that is 51% of the population, and only 41% of public and community schools have toilet facilities. Despite that, a lot of progress has been made in school sanitation with this initiative, but challenges still remain. Demand and supply of services vis-à-vis sustainability of services is of concern in community schools.

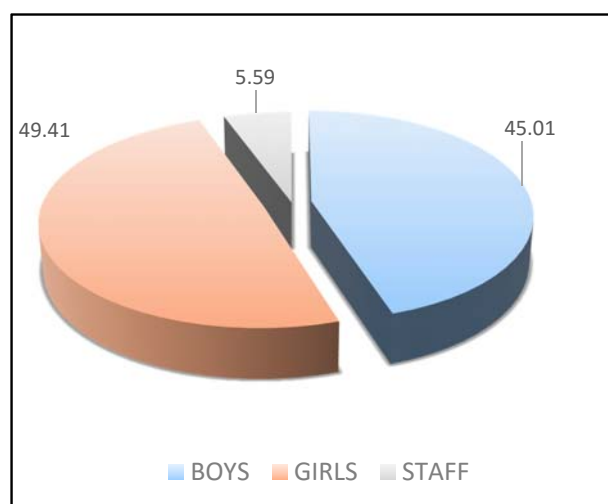
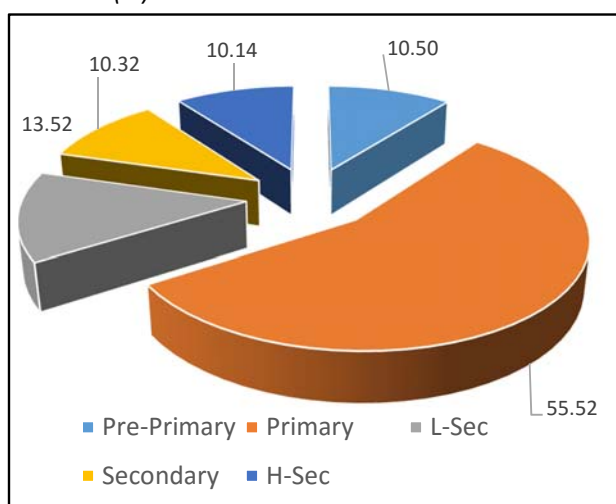
There are a total 704 schools with student population of 76640 (Boys- 36,533, Girls- 40,107) including 4335 staff in the district at study periods. Due to lack of required number of student, some schools have already merged and some are in merging stage in remote areas. This indicates the total number of schools are in decreasing order. Of the 549 schools, 77.98% schools have toilets in which 209 (29.69%) toilets are gender sensitive. Toilet facilities within

the district have been illustrated in table below. Details of information have been mentioned in Annex 1.5 as priorities order of VDCs and Municipality by sanitation facilities in schools.

**Table 2.13: Status of Toilet Facility Users at the School level in Gulmi district**

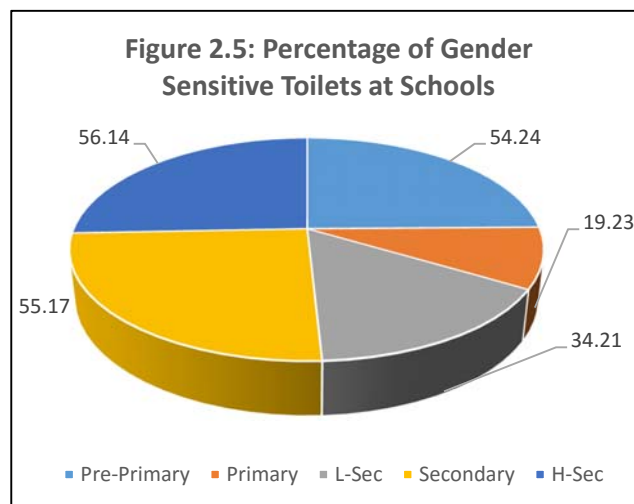
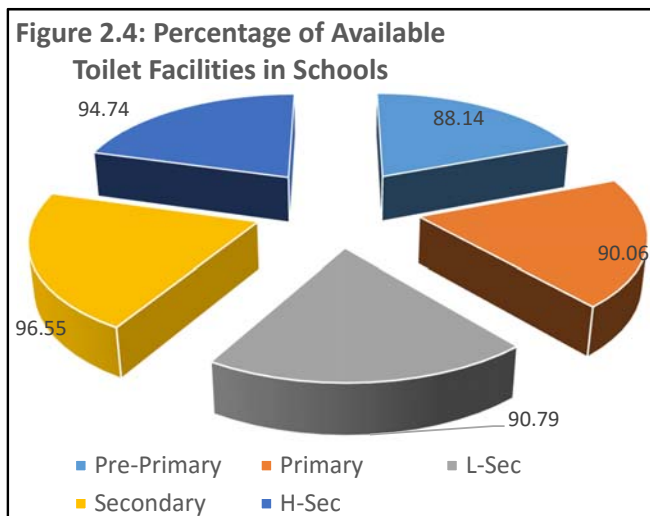
| S.No | Type Of School | No. Of School | BOYS         | %            | GIRLS        | %            | STAFF       | %           | TOTAL        | %             |
|------|----------------|---------------|--------------|--------------|--------------|--------------|-------------|-------------|--------------|---------------|
| 1    | Pre-Primary    | 59            | 1284         | 40.16        | 1661         | 51.95        | 252         | 7.88        | 3197         | 3.94          |
| 2    | Primary        | 312           | 8450         | 45.47        | 8703         | 46.84        | 1429        | 7.69        | 18582        | 22.89         |
| 3    | L-Sec          | 76            | 6090         | 45.21        | 6612         | 49.09        | 767         | 5.69        | 13469        | 16.59         |
| 4    | Secondary      | 58            | 7711         | 45.63        | 8316         | 49.21        | 872         | 5.16        | 16899        | 20.82         |
| 5    | H-Sec          | 57            | 12998        | 44.78        | 14815        | 51.04        | 1215        | 4.19        | 29028        | 35.76         |
|      | <b>TOTAL</b>   | <b>562</b>    | <b>36533</b> | <b>45.01</b> | <b>40107</b> | <b>49.41</b> | <b>4535</b> | <b>5.59</b> | <b>81175</b> | <b>100.00</b> |

*Figure 2.2: Coverage of Schools in Gulmi District (%)      Figure 2.3: Student and staff distribution in Schools (%)*



**Table 2.14: Status of Toilet at the School level in Gulmi district**

| S.No | Type Of School | No. Of School | Available Toilet Facilities |              | Not Available Toilet Facilities |             | Available Gender Sensitive Toilets |              | Lack Of Gender Sensitive Toilets |              | Adequate Toilet Facilities |              | Not Adequate Toilet Facilities |              | Friendly Toilet For Differently Able |          | Not Friendly Toilet For Differently Able |            |
|------|----------------|---------------|-----------------------------|--------------|---------------------------------|-------------|------------------------------------|--------------|----------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|--------------------------------------|----------|--|------------|
|      |                |               | No.                         | %            | No.                             | %           | No.                                | %            | No.                              | %            | No.                        | %            | No.                            | %            | No.                                  | %        | No.                                      | %          |
| 1    | Pre-Primary    | 59            | 52                          | 88.14        | 7                               | 11.86       | 32                                 | 54.24        | 27                               | 45.76        | 43                         | 72.88        | 16                             | 27.12        | 0                                    | 0        | 59                                       | 100        |
| 2    | Primary        | 312           | 281                         | 90.06        | 31                              | 9.94        | 60                                 | 19.23        | 252                              | 80.77        | 127                        | 40.71        | 185                            | 59.29        | 0                                    | 0        | 312                                      | 100        |
| 3    | L-Sec          | 76            | 69                          | 90.79        | 7                               | 9.21        | 26                                 | 34.21        | 50                               | 65.79        | 19                         | 25.00        | 57                             | 75.00        | 0                                    | 0        | 76                                       | 100        |
| 4    | Secondary      | 58            | 56                          | 96.55        | 2                               | 3.45        | 32                                 | 55.17        | 26                               | 44.83        | 4                          | 6.90         | 58                             | 100.00       | 0                                    | 0        | 58                                       | 100        |
| 5    | H-Sec          | 57            | 54                          | 94.74        | 3                               | 5.26        | 32                                 | 56.14        | 25                               | 43.86        | 12                         | 21.05        | 45                             | 78.95        | 0                                    | 0        | 57                                       | 100        |
|      | <b>TOTAL</b>   | <b>562</b>    | <b>512</b>                  | <b>92.06</b> | <b>50</b>                       | <b>7.94</b> | <b>182</b>                         | <b>32.38</b> | <b>380</b>                       | <b>67.62</b> | <b>205</b>                 | <b>36.48</b> | <b>361</b>                     | <b>64.23</b> | <b>0</b>                             | <b>0</b> | <b>562</b>                               | <b>100</b> |



## 2.2.4 Other Institutions

In Gulmi district, the number of institutions were engaged in sanitation activities. These were DDC, DWSSO, DTO, VDCs, RVWRMP, local NGOs, civil society and local people.

Hygiene and sanitation are an important components to sustain the clean environments. It brings dignity, equality and safety, it is a good economic investment and ultimately it is a fundamental human right as provisioned by the UN. The “Sanitation for All: All for Sanitation” is a national thrive to 2017 to meet the goal for sanitation target and end open defecation.

There is a greater need to provide the hygiene facility to the school by harmonizing amongst and between the government, donors, multi-lateral agencies, civil society, private sectors, and community working together to achieve the national goal. In Gulmi district, the wider engagement of the stakeholders' ranges from government, non-government and communities made possible to attain the significant achievement. The following table illustrates the facilities of Toilet at the School and other Institutions in Gulmi district.

**Table 2.15: Facilities of Toilet at the School and other Institutions in Gulmi district**

| Institutions   | Coverage of Hygiene facilities (%) |
|--|------------------------------------|
| Schools and colleges   | 94.87                              |
| Public Institutions (Police, administration and government institutions) | 99.37                              |
| Community based institutions (VDCs, Health centres, extension centres)   | 99.64                              |
| Hotels and Restaurants   | 97.45                              |
| Bus Park   | 45.96                              |
| Public places (Park, Stadium, sport                                      | 56.74                              |
| Market centres   | 64.43                              |
| Others (Highway)   | 6.44                               |
| AVERAGE  | 70.61                              |

Source: DDC Gulmi, 2070



## 2.3 Incidence of Water Borne Diseases in the District

Health Information available with DHO for 2 years (2071-2072 B.S.) indicate that Typhoid (Enteric Fever), Acute gastro enteritis, Amoebic Dysentery, Bacillary Dysentery/Shigellosis, Presumed non-infectious diarrhoea, Cholera, Intestinal Worms, Jaundice and Infective Hepatitis, and Hepatitis A diseases are found to be endemic placing a huge burden on families as well as inhibiting child growth through tropical enteropathy and inhibiting educational attainment in the district. The available data indicates a positive correlation between safe water, toilet facilities and hygienic behaviour (washing hand with soap water in critical time) as the water borne diseases is found to be more prominent among the Dalit, poor families and the areas lacking safe water facility and total behaviour change of the people. Incidence of water borne disease in the district has been given in below and more detail has been presented in Annex 6.

**Table 2.16: Status of Water Borne Diseases in Gulmi district**

| Cases | Typhoid (Enteric Fever) |       | Acute gastro enteritis |      | Amoebic Dysentery |       | Bacillary Dysentery/Shig ellosis |      | Presumed non-infectious diarrhea, |       | Intestinal Worms |       | Jaundice and Infective Hepatitis |      | Hepatitis A |      | Total |       |
|-------|-------------------------|-------|------------------------|------|-------------------|-------|----------------------------------|------|-----------------------------------|-------|------------------|-------|----------------------------------|------|-------------|------|-------|-------|
| Sex   | F                       | M     | F                      | M    | F                 | M     | F                                | M    | F                                 | M     | F                | M     | F                                | M    | F           | M    | F     | M     |
| No.   | 5196                    | 3831  | 2111                   | 1548 | 4854              | 3702  | 1002                             | 741  | 3122                              | 2212  | 5512             | 4097  | 503                              | 384  | 38          | 40   | 22338 | 16555 |
| %     | 23.26                   | 23.14 | 9.45                   | 9.35 | 21.73             | 22.36 | 4.49                             | 4.48 | 13.98                             | 13.36 | 24.68            | 24.75 | 2.25                             | 2.32 | 0.17        | 0.24 | 100   | 100   |

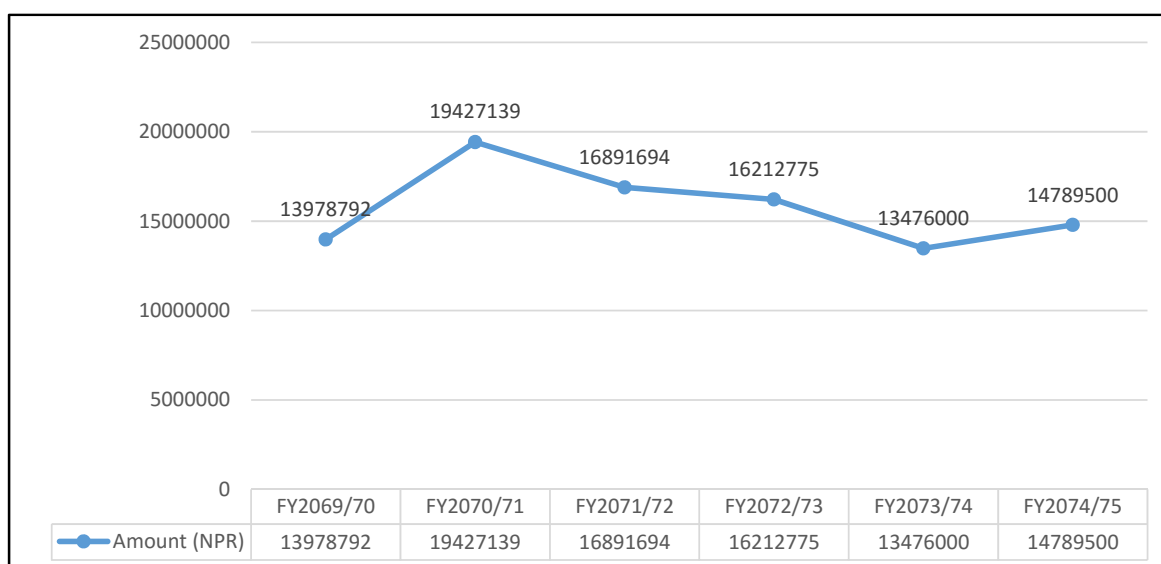
**Note: M= Male; F= Female**

## 2.4 Public budget expenditure tracking for WASH sector in different periods

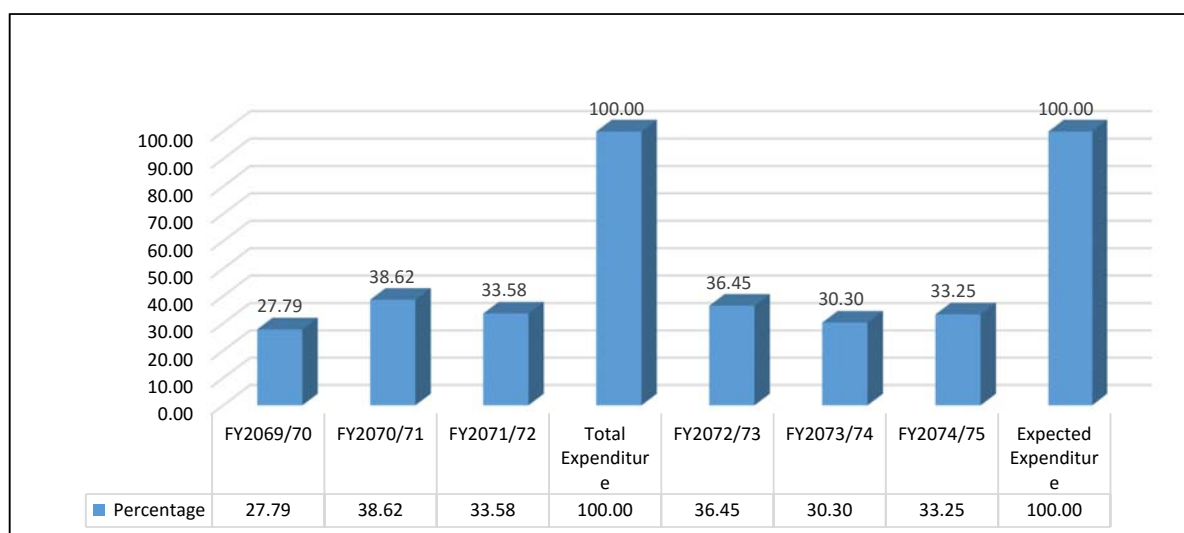
A budget is a plan for accomplishment of the programs related to objectives and goals within a definite time period, including an estimate of resources required, together with an estimate of resources available, usually compared with one or more past periods and showing future requirements. In the past WASH sector was not highly prioritized in Nepal due to lack of awareness and absence of advocacy. After 1970s, many international and national advocacy forums were formed that supported empowering people and raising public awareness on the one hand. On the other hand, all actors including government, DPs and civil society come together to bring significant achievements in WASH sectors that encourages the government including DPs have significantly increased the budget for WASH sector to achieve universal coverage. In Gulmi district, the budget for WASH sector was allocated by local bodies, government line agencies, and other development partners such as I/NGOs. The figures below illustrate the annual budget allocation by the agencies in different year. The detail budget allocation according to VDCs in Gulmi district presents in Annex 4 and 5.

**Table 2.17: Public budget expenditure tracking for WASH sector in Gulmi district**

|              | Actual Expenditure of Budget |           |           |          | Projection of Budget Expenditure |           |           |          |
|--------------|------------------------------|-----------|-----------|----------|----------------------------------|-----------|-----------|----------|
| Year         | FY2069/70                    | FY2070/71 | FY2071/72 | Total    | FY2072/73                        | FY2073/74 | FY2074/75 | Total    |
| Amount (NPR) | 13978792                     | 19427139  | 16891694  | 50297625 | 16212775                         | 13476000  | 14789500  | 44478275 |
| Percentage   | 27.79                        | 38.62     | 33.58     | 100.00   | 36.45                            | 30.30     | 33.25     | 100.00   |



The total expenditure budget for last 3 years was NRs. 5, 02, 97, 625.00 in which the huge amount (38.62%) was spent in FY2070/71 followed by 33.58% in FY2071/72. The least amount (27.79%) was expended in FY2069/70 compared to other years. Similarly, the huge amount (36.45%) will be spent in FY2072/73 followed by FY2074/75 (33.25%). The least amount (30.30%) was expended in FY2073/74 compared to other years.



## 2.5 WASH Plan Mapping

Stakeholders' involvement in WASH sector concerns to maintain the Water governance and regulate the development and management activities of water resources. At the district level, stakeholders comprise a broad range of political and administration, social and economic, private sector and civil society spheres as their engagement reinforces decision making, negotiations, and power relationships and improves water services delivery system. In Gulmi district, WASH stakeholders consist local people, community, VDCs, DDC sectoral line agencies,

Development Partners, and department of WASH. However, the major stakeholders in terms of investment remain Department of Water Supply and Sanitation has initiated 89 projects in different VDCs and Municipality areas. Amongst the project, two types of projects such as gravity and lift are in operation. The details WASH Stakeholder Plan Mapping has been given in Annex 7.

**Table 2.18: WASH Plan Mapping in different periods**

| Number of Benefitted VDCs | Type of Scheme (DWS, S&H, CCA/DRR, other specify) | Planned Year of Completion | If DWS specify (Gravity, OH, or Lift, well, Tube well) | Benefitted HHs | Estimated investment (NRs) |
|---------------------------|---|----------------------------|--|----------------|----------------------------|
| 13                        | DWS   | FY 2071/72                 | Gravity and Lifting                                    | 1285           | 0                          |
| 5                         | DWS   | 2072/073                   | Gravity  | 4820           | 34942                      |
| 12                        | DWS   | 2073/074                   | Gravity  | 23171          | 193948                     |
| 54                        | DWS   | FY 2074/75                 | Gravity and Lifting                                    | 88520          | 959774                     |
| 6                         | DWS   | FY 2075/76                 | Gravity and Lifting                                    | 9631           | 133227                     |
| 1                         | DWS   | FY 2076/77                 | Lifting  | 4256           | 60237                      |

The above table depicts the DWS completed and to be completed projects in all VDCs from FY 2071/072 to FY 2076/77. However the completed projects in FY 2071/72 counted 13 these were from Purkotdaha, Paudiamarai, Paudiamarai, Hardharde, Doholi, Darlamchaur, Malaygiri, Amarpur, Purkotdah, Chhapahile, Wagla/Sirseni, Badagaun, Hastichaur where 1285 households were benefitted. Concurrently, the table illustrates 1, 38, 21, 28, 000.00 NRS will be expended from 2072/073 to FY 2076/77 for Gravity and Lifting WASH projects.

## 2.6 Key Challenges

Clean Drinking water and sanitation are the most important basic needs of the human beings. It remains on the top priority in the agenda of community development. Given the fact that the governmental and development partners' effort to develop a systematic approach for effective access of people to clean drinking water and sanitation. Nepal has not had long stand history of drinking water supply sector. In 1970-75, the 4<sup>th</sup> Plan was formulated that gave high priority to the drinking water and sanitation sector in the national strategic plans. However, 27% households have lack access to drinking water supply and 20% are lag behind from the toilet service. The segregate information indicates that 22% rural households and 6% urban households are yet to be lag behind from the access of toilet service. Additionally, few districts have WASH plans but need to make fully implemented, and regular funding support. In most district monitoring is inconsistent and there were critical gaps. Reliable data is essential to inform policy decision, to monitoring and evaluate outcomes, and to identify those who do not have access to WASH.

Nevertheless, much progress has been made in expanding water and sanitation services with support of development partners. As they have focused on delivering development results and offering a wide range of financial support. Many agencies are contributing their efforts on decentralization, community participation, and private sector participation to reinforce the sanitation sector. Despite these, providing access to improved sanitation and safe drinking water to the people of the poor community and marginalized groups is still challenged ahead in many ways:

- i. Improvement in functionality of the schemes in water supply;
- ii. Impact of climate change on the availability of water sources;

- iii. Resources (financial as well as human) gap in the WASH sector;
- iv. Consolidation of planning and programming of different stakeholders;
- v. Ensuring uniformity in approaches in implementation;
- vi. Need of objective study on urban sanitation and solid waste management and investment required for appropriate disposal and treatment of solid and liquid waste;
- vii. Study on aquifer and depletion risk in ground water for policy formulation to ensure sustainable use of ground water;
- viii. Sustainability of pumping system;
- ix. Implementation of WSP.

### **2.6.1 Water Supply**

In the district, 80.76% of the total households have access to basic water supply at present. However, the existing water supply systems remain to uncovered well/Kuwa and river/stream that consist of about 19.24% yield poor quality of water and affect the human health, therefore replacement is needed in order to ensure quality water safe for drinking as well as other household purpose. A rigorous effort is required to replace the aforementioned type water in order to ensure safe water for drinking and other household purpose to the people. Accordingly, the other system of water supply (gravity and lift system) and public water points need to be improved to ensure water quality and making them self-sustained at community level. Besides these tasks, the district has great challenge ahead to provide universal access to the population in the district by 2017 as stipulated by GoN in its MDG.

### **2.6.2 Sanitation and Hygiene**

Sanitation generally refers to the provision of facilities and services for the safe disposal of human urine and faeces. Inadequate sanitation is a major cause of disease world-wide and improving sanitation is known to have a significant beneficial impact on health both in households and across communities. The word 'sanitation' also refers to the maintenance of hygienic conditions, through services such as garbage collection and wastewater disposal.

Gulmi District declared Open Defecation Free on 11th July 2015. There are 75 Village Development Committees and one Municipality in Gulmi District, which had already declared ODF following the rule and regulation given in the Sanitation and Hygiene Master Plan-2068. Now, 65000 households in the district are facilitated by toilets facility. RWSSP-WN II, through the Local Government (DDC), has been supporting the movement by building capacity, conducting sanitation and hygiene promotional activities, and helping the district to prepare ODF plan and strategy.

Analysis of soap availability , washbasin in school and other institution reveals that hand washing with soap at critical times is not so encouraging. The toilet-student ratio 1:33.65 indicates that toilets in educational institutions are satisfactory. However, a large number of schools are yet to construct toilets separately for girls and boys. Solid waste and wastewater problems are growing rapidly as there is massive population influx in the district since the recent past. The rate of growth of per capita waste is also growing coupled with poor drainage affecting safe water. The practices of rampant disposal of waste particularly, have been contaminating the water bodies and affect the public health.

### **2.6.3 Poverty, Gender Equality and Social Inclusion (PGESI)**

Poverty is general scarcity, dearth, or the state of one who lacks a certain amount of material possessions or money while GESI refers to the social attributes and opportunities associated with being male and female and the relationships between women and men and girls and boys, as well as the relations between women and those between men. These attributes, opportunities and relationships are socially constructed and are learned through socialization processes. In most societies there are differences and inequalities between women and men in responsibilities assigned, activities undertaken, access to and control over resources, as well as decision-making opportunities. Gender considers broader socio-cultural context include class, race, poverty level, ethnic group, age, equal rights, responsibilities and opportunities of women and men and girls and boys.

Thus, GESI integration can be interpreted as a process and strategy for ensuring the concerns of women and men from all social groups (ethnicity, caste, economy, age, disability, geographic locations) as an integral dimension in the design, implementation, monitoring and evaluation of policies and programs in all political, economic and social spheres. It aims to promote equality and strengthen the legitimacy by addressing existing disparities and gaps which are highlighted in access and control over resources, services, information and opportunities and the distribution of power and decision making.

Like the national scenario, the social exclusion by gender, ethnicity and caste is a persisting problem. Gender-based exclusion in Gulmi district is pervasive and deep-rooted, with discrimination against women reducing their physical survival, health and educational opportunities, ownership of assets, mobility, and overall status. Poverty incidence is higher among ethnic minorities such as Dalit and Janajati and other minority groups. Caste-based social exclusion has been manifesting in disparities in both poverty incidence and human development indicators. The national census data indicate poverty incidence to be significantly lower among the highest-caste group than for the lower-caste groups in Nepal. Although separate data is not available for the district, the national scenario does not differ in case of Gulmi too. It is the same case of other human development indicators between lower- and upper-caste groups.

The inequality driven by social exclusion shows that poverty in the district as in the country is intimately intertwined with lack of access to the very resources necessary for escaping it, as reflected in the low level of human development indicators.

As per Nepal Human Development Report 2014, economically active population of the district is 101,715. The report has categorised all 75 districts into 5 groups based on their Human Development Index (HDI). There are 10 districts in the first category with the lowest scores and 16 districts in the second category with slightly higher scores. Gulmi district lies in the third category (.450 – .499, modest category) where 30 districts, mostly of the hills, with a scores between 0.450 and 0.499 are listed. The score of Gulmi is 0.464.

Moreover, exclusion-led discrimination against women occurs on numerous fronts, including physical survival, health and educational opportunities, ownership of assets, mobility, and overall cultural status. Figure shows 72.56 percent people are literate in which 81.65 percent male and 65.94 female are literate. Similar pattern could be noticed in case of life expectancy, absolute poverty among the female-headed women. The existing scenario warrant that Gulmi district is in need of adopting meaningful poverty reduction and human right based approach in WASH

sector with emphasis on improving the poor's access to resources especially among the powerless.

#### **2.6. 4 Environment, Climate Change and Disasters**

Geographically, Gulmi district is located within Lumbini zone in western development region. It falls in Himalayan range and mid hilly region. Hilly region is the prime source of recharge of river and stream water. Besides the hill and mountain the district have a large number of ponds to recharge water sources. The hilly region is occupied by remarkable number of community forests, which also help to recharge the water sources of the district.

Deforestation is high in everywhere of the district. The agricultural activities using chemical fertilizer, insecticide pesticides and other harmful chemicals have been resulting contamination of water source of the district. This has manifested in adverse impacts in water quality in hilly areas of the district. Acute land erosion due to slash and burn crop cultivation system with no terracing at the hilly region has been a recurring problem in these slopes eroding the top soils. Similarly, reduction of rainfall, landslide and flood, water resource below the human settlement, burning of forest in dry season results the reduction of water resources in the district.

Climate change and its impact is a global and cross boundary issue. It has greater impact on water, vegetation and agriculture, thus affecting into human life. While talking about climate change, it is closely linked with environmental and disaster issues. However, exact measuring of the adverse impacts of climate change is challenging.

#### **2.6. 5 Vulnerability Assessment**

According to NAPA (2010), the vulnerability of Gulmi district is estimated as low with the vulnerability index between 0.181-0.355. The district's vulnerability is low to landslide ecological, drought, GLOF & rainfall/temperature and is very low to flood. The vulnerability of Gulmi is assessed into 3 categories; High, Moderate and Low and mapped accordingly. Furthermore, the analysis of vulnerability score shows that Hwandi is most vulnerable VDC of the district with vulnerability score of 0.4. Based on flood and landslide, Aaglung has been the most vulnerable VDC scoring 0.59. Similarly Thulo Lumpek is the most vulnerable towards fire and drought with the score of 0.42.

In Gulmi district, the key hazards like flood, land-slide, fire and drought have caused total loss of 214 human deaths, 109 injured, 277 houses destroyed, and 3794 affected over the recorded period of time period. Land-slide has been the key event causing the highest loss, 44.3% of total loss. Similarly, epidemic is the most vulnerable cause for human death which is respectively followed by landslide and flood. The average combined vulnerability index does not follow a distinct trend; 0.1794, 0.1147, 0.2071 and 0.1736 respectively for 1971-1980, 1981-1990, 1991-2000, and 2001-2011. Evaluating individual event, fire was the most vulnerable event followed by land-slide in 1971-1980 while in 2001-2011, land-slide became the key vulnerable event.

#### **2.6. 6 Past and Perceived Future Trend of Natural Hazard**

The number of events related to natural hazard has increased in recent years from 2008 and the highest occurrence recorded was on 1977 following by 8 events in 2009. All together 13 people have died, 8 have been injured and 353 people has been affected due to the fire during the period of 1973-2011. Flood is not regular problem as there are only few times when the flood has occurred so, there will be no surprise that NAPA (2010) has kept this district in

categories of very low vulnerable to flood. However, flood has caused the deaths of 17 peoples, injury of 3 people and 215 affected over the time period. NAPA (2010) has categorized Gulmi district as low vulnerable to landslides, with an index of 0.073 to 0.212. The occurrence of landslide is negligible from year 1971 to 2006. However, the occurrence has increased and continuing in recent years from 2007 recording highest number in 2010. Therefore, landslide could be one key threats due to CC in future.

## **2.6. 7 Climate Change Education**

In addition to formal education in school and college, number of awareness programs has been initiated at local and national level to address these issues. The district shows the active involvement of different governmental, local bodies and different NGOs. The governmental bodies like DDC/DEECCS, DADO, DFO, and District Soil Conservation Office have prepared different plans and are working annually as per the plans. Such plans generally include awareness programs, training for the officials, seminars and adaptation measures. Similarly, there are some NGOs working in the field of CC adaptation. They prepare brochures, perform street dramas, different rallies and other awareness programs at local level to aware the local people about the existing scenario of CC, its inevitability and the adaptation techniques to minimize its effects. Also, local and national media are advertising such issues and aware the mass with the help of advertisements, talk shows, dramas, serials, etc.

## **2.7 Discussions and the Way Forward**

Despite the reasonable achievements in WASH sector, still 15% of the country's population lacks access to drinking water supply and sanitation, 42% are far behind from the access to toilet. Such gap stands as a big challenge in achieving the perceived health benefits from water supply and sanitation services. More importantly, the poor and disadvantaged communities are highly vulnerable, with children and women fairing worst while some national strategies and policy frameworks are well structured which are well accepted by all. The trend of WASH coverage also indicates that Gulmi district is to very close to meet the MDG, though it needs to make more quality and sustainable service system, equality and equitable access to service provisions, enabling environment for institutional mechanism, adequate resources and stakeholders' strong degree of collaboration. However, these matters are rolling issues and still to be resolved in the WASH sector. In order to meet these challenges, many elements are needed to be deployed as way forward of WASH sector in Nepal.

Firstly, it is evident that learning and sharing activities in the WASH sector is very limited. Information management has not been a prioritized and there is no proper mechanism to receive feedback from grassroots to the policy making resulting into ad hoc planning. So, it is essential that key WASH sector stakeholders have to create enabling environment to formulate community friendly WASH policies, technological options and establish good practices for effective planning to achieve the targets of 'Sanitation and Water for All'.

Secondly, WASH sector is fragmented and still marginalized people are lag behind from basic WASH services. To end this situation, networks at different level is enormous that advocate the knowledge sharing and effective information management. This process encouraged the sectoral professionals as a potential network to develop itself as a knowledge sharing hub. The networks can bring many opportunities through sectoral experiences and financial support in different thematic areas such as institutional framework, capacity building, sector financing, monitoring and evaluation, functionality and sustainability, sanitation and hygiene, water



quality, gender equity and social inclusion and disaster risk reduction and climate change adaptation.

Thirdly, Nepal has been enriched by effectively devolved Local Self Governance Act (LSGA) which has provisioned to empower the rural communities for providing water and sanitation facilities through participatory planning, implementation, monitoring and evaluation. Mass campaign, lobby and advocacy of communities' and result based monitoring are essential components of LSGA which promoted a bottom-up approach to advance resource distribution and service delivery, by bringing the decision-making process closer to the grassroots. However, due to lack of awareness, human resources and, most importantly, due to lack of planning skills, hygiene and sanitation was overshadowed by physical infrastructures. To switch of the issues, a greater determination is required to harmonize various sectors government, donors, multi-lateral agencies, civil society, private sectors, and communities which are directly and indirectly involved in WASH activities to achieve the national goal. Still the challenge leftovers to reach the marginalized and poor people who fall under basic access to water, sanitation and toilets.

Fourth, the Water Supply and Sanitation Division/Sub-Division Offices (WSSD/SDO) have been playing the catalytic role for backstopping ODF initiative in coordination with District Water Supply and Sanitation Coordination Committee in the recent years. NGO/ CBOs, women/ mothers' groups, forest users groups (FUGs), cooperatives, ex-army groups, youth clubs, are quite active in Nepal for cultural, social and community welfare activities. But these entities are not fully streamlined to achieve hygiene and sanitation promotion.

Fifth, sector governance Nepal is intending to move towards a sector wide approach (SWAp) for WASH with a sectoral periodic plan and agreed results framework. However, Nepal's current WASH sector governance is highly fragmented. There are overlaps in responsibilities and roles at all levels and a dominant emphasis on project-oriented approach to delivery. Although the Government of Nepal has clarified its outlined to address the issues of WASH through SWAp in its Three Year Plan, there are some reservations of stakeholders who understand SWAp only as a basket funding mechanism and do not wish to lose their control of fund execution.

Finally, a model needs to develop for effective WASH service management encompassing financing, outsourcing and oversight to increase capacity and efficiency. This model reinforces to enhance the capacity of local government, CBOs and NGOs.

Despite many efforts, WASH sector is influenced by power structure in water supply sector and not effectively encourage the communities, NGOs and the private-sectors to involvement. This has led 42 percent of all projects are not well functioning and need major repairs, rehabilitation or reconstruction. A more visible constraints for this are technical and financial that hinder the community's capacity. Other factors include institutional fragmentation and limited sector coordination, captured decentralization in local authorities, weak monitoring and attention to water resource management and water quality, and lack of information on budget allocations. These issues can hinder the access to safe drinking water, adequate sanitation, and proper hygiene.

## CHAPTER – 3: DISTRICT WASH TARGETS AND STRATEGIES

### 3. Background

A formal WASH initiative was began in Nepal during 2003 that emphasized on building an alliance of sectoral organizations working together on sanitation issues; and increasing government accountability by disseminating to communities information on national sanitation policies and government commitments in achieving Millennium Development Targets and establishing mechanisms to feedback their views to decision makers.

### 3.1 District WASH Targets

The government of Nepal under Rural Water Supply and Sanitation National Policy 2004 and National Sanitation and Hygiene Master Plan-2011 envisioned to achieve the target of total access for water and sanitation by 2017. To support the national target by achieving remarkable progress in WASH sector, Gulmi District sets the major milestones of the WASH activities. Accordingly, guiding principles and implementation strategy has been formulated in order to ensure the achievement of the set target and stipulated milestones of the activities.

**Table 3.1: Major Milestones**

| Activities  | Number of VDC/Municipality by Year |         |         |         |         |
|---|------------------------------------|---------|---------|---------|---------|
|   | 2016                               | 2017    | 2018    | 2019    | 2020    |
| Preparation of District Post ODF Strategy   | 1                                  |         |         |         |         |
| Approval and implementation of DSWASHP  | 1                                  | Regular | Regular | Regular | Regular |
| Translation and publication of DSWASHP  | 1                                  | 1       | 2       | 1       | 3       |
| Post ODF /total sanitation strategy of District   | 1                                  | 1       | 2       | 1       | 3       |
| Post ODF strategy of VDCs   | 15                                 | 30      | 30      |         |         |
| Preparation of VDC and District Level Community adaptation work plan                                    |                                    | 15      | 30      | 30      |         |
| Post ODF activities in VDCs   | Regular                            | Regular | Regular | Regular | Regular |
| Sustainable regulation and protection of existing water supply scheme (water safety plan)               | 99                                 | 400     | 400     | 400     |         |
| New schemes for unserved HHs (388 schemes for 19,428 HHs average one scheme equal to 50 HHs in average) | 50                                 | 100     | 100     | 100     |         |
| Basic Water Supply Coverage (with full functioning schemes and WSP applied) VDCs                        | 15                                 | 20      | 30      | 12      |         |

*Source: Field Survey 2071*

### 3.2 Principle WASH Strategy

The District Strategic WASH Plan is a key guideline to address the underlying issues of WASH activities across the district through determining strategic vision, goal, objective, input, output, outcomes and resources (Financial and Human) within the 2013-2017 period.

The basic aim of the DSWASHP is to streamline the scattered and uneven efforts of the stakeholders for achieving set WASH targets for the district. The DSWASHP supports to bring close all stakeholders' ranges from the government and non-government institutions, private sector and create an enabling environment for working at the district and community level under following principle strategies:

- i. DWASH-CC will be responsible to maintain the coordination with stakeholders and other agencies to ensure implementation of the strategic plan as well as raising financial resources to meet the resources gap of the plan.
- ii. WASH sector agencies will be actively engaged at the district level planning, activities setting, aligning with the strategy, setting of targets and action plans.
- iii. All VDCs / Municipality will prepare their respective VWASH/MWASH plans to achieve the basic water supply coverage by 2017.
- iv. VDCs and Municipality will allocate at least 5% of their total capital budget for WASH activities annually. Similarly, DDC will allocate at least 3% of their capital budget to support the WASH activities in the district. Such annual allocation of budgets by local authorities may need to be increased upon nature and extent of activities in the respective areas.
- v. All VDCs and Municipality will prepare Community Adaptation Plan for Action (CAPA) aiming at reducing adverse effects of climate change as well as prepare adaptation plan in order to cope with possible risks emanating from climate change.
- vi. DWASH-CC will formulate District Solid Waste Management Plan with primary focus on mitigating problems of core-urban, sub-urban and highway corridor. Accordingly, it will implement at least two projects on pilot basis in order to see operation of the activities on sustained basis.
- vii. DWASH-CC will carry out study on status of groundwater aquifer, water quality, pollution risk, recharge status, water table depletion problem and access of people to the aquifer in the district. It will formulate policy and strategy for groundwater use for adaptation and sustainability.
- viii. A significant gap between the fund requirement and projected fund resources at the disposal of the sector actors at the district level exists. Therefore, mobilization of resources at the disposal of the sector actors at the local level with concerted efforts is a warranted task in achieving the set target of the plan on one hand and tapping the external fund resource on the other is compelling challenge in materializing the stipulated target in the Strategic Plan. Therefore, institutional capacity enhancement more of the DWASH-CC members and VWASH-CC and MWASH-CC members in tapping of the fund resources and channelling the fund and human resource as underlined in the strategic plan is a warranted need. Therefore, the capacity enhancement of the WASH institutions forms an important strategy in the plan.
- ix. DWASH-CC holds responsibilities of monitoring and updating the Strategic WASH Plan. VWASH-CCs and M-WASH-CC are made responsible for monitoring and updating of their respective VWASH and MWASH plans.

DWASH-CC will coordinate the concerned stakeholders in the district in smoothing fund and human resource supports for materializing planned activities of VDCs/VWASH-CCs and Municipality/MWASH-CC in achieving set target of ODF by 2015 and basic water supply coverage by 2017.
- xi. VDC/VWASH-CC, Municipality/MWASH-CC and user committees/groups hold the sole responsibilities of implementation and smooth operation of activities/schemes planned

for their respective areas in line with the spirit of decentralization and Sanitation and Hygiene Master Plan of GoN.

### **3.3 Sanitation Acceleration Strategy (Post ODF)**

District Total Sanitation Strategy and Plan (2016-2020) has set a goal to achieve total sanitation status (with sustained behaviour change) by 2020. The plan has set different phases for achieving the goal of total sanitation. The phases are slightly updated as:

**First Stage:** Declare 5 VDCs and 2 wards of the Municipality as Total Sanitation VDC and Ward by the end of 2016.

**Second Stage:** Declare 16 VDCs and 7 wards of the Municipality as Total Sanitation VDC and Ward by the end of 2017. At least 60% of the schools and institutions will have adequate toilet facilities (child, gender and differently able friendly).

**Third Stage:** Declare remaining 14 VDCs and 6 wards of the municipality as Total Sanitation VDC and Wards by the end of 2018. Declare the district as Total Sanitation District. All the schools and the institutions will have adequate toilet facilities (child, gender and differently able friendly).

**Fourth Stage:** Develop the district as a sustained total sanitation model district by 2020. The sanitation improvement strategy of the district has been framed to the spirit of the national sanitation strategy. To end this, Gulmi district has framed basic strategies on sanitation under socio-economic and geographical realities existing the district. They are:

- District was declared Open Defecation Free Zone by 2072/3/26 BS upon construction of improved toilets in households, institutions including schools, government and non-government institutions and public places.
- Post-ODF activities will be carried out for total sanitation movement by the support institutions actively engaged in hygiene and sanitation activities in the district in concerted effort of DWASHCC
- Commitment has been placed by political parties and other stakeholders will be participated as driving force in achieving total sanitation/total behavior change in hygiene and sanitation as the post ODF strategy in the district.
- Hygiene and sanitation activities will be tied with day-to-day life of the people in the district and this will be driven ahead as common issues of development activities.
- A single entry system will be opted in providing fund support to the people upon careful analysis of geographical condition, socio-economic and religious situation existing in the district. Policy will be followed in providing special fund support from the district to the households with latrine connected with Biogas purpose.
- Discussion events, advocacy, and mass awareness raising programme will be conducted to reach the programme at the household level as well as at the individual level. In doing so, both the formal and informal media will be actively mobilized as partner in the movement.

### 3.4 Technological Options

Appropriate, tested and widely used technology options that meet the standards set by GoN will be promoted in the district. Following are the technological options identified as appropriate for the district:

**Table 3.2: Technological options**

| Type of scheme                                  | Technology options  | Notes  |
|---|---|--|
| <b>Water Supply</b>                             | Gravity flow systems<br>Rainwater harvesting<br>Point source improvement<br>Solar or electrical lifting<br>Multiple-use of water systems                | Gravity flow as the first priority;<br><br>First Priority is given to the unreached and unserved.  |
| <b>School/Institutional/<br/>Public Toilets</b> | Gender, Child and Disabled friendly structures  | Availability of water; sustainable operation and maintenance is pre-condition.   |
| <b>Environmental Sanitation</b>                 | Latrines (dry, ECOSAN, SULABH)<br>Composting; household solid waste management; Tap stand & washing platform drainage (for home gardens)                | Maximum utilization of local materials, skills and technologies. Sustainable technology choice; water scheme locations   |
| <b>Recharge Structures such as Ponds/Pits</b>   | Earthen or side-lined ponds on a suitable location at the higher end of the catchment area, other simple recharge structures such as pits and trenches. | Multi-purpose use ponds recommended. Should consider easy access to animals and human safety (in terms of drowning!) Maximum use of local materials.                                     |
| <b>Scheme and catchment protection</b>          | Bio-engineering and plantation to protect catchment, water sources and scheme structures.   | Soil stabilization by plantation, management of excess runoff water etc.   |
| <b>Improved Cooking Stoves</b>                  | Low cost and mud type improved cooking stove,<br>Metal cooking stove  | Capacity enhancement of local masons, awareness raising of households and maximize benefit from government subsidy on metallic cooking stove through Alternative Energy Promotion Centre |

### 3.5 Sustained S&H Behavior Change Strategy

In line with the spirit of the national sanitation and hygiene master plan, the district has prepared a Total Sanitation Strategy Plan (2015-2020) considering the need, capacity, socio-economic and geographic realities of the district. There are many strategies set by the district on the plan, among them few are listed below:

- Post-ODF activities will be carried out for total sanitation movement by the support institutions actively engaged in hygiene and sanitation activities in the district in concerted effort of DWASHCC following the Total Sanitation Strategy Plan (2015-2020).
- Commitment shown by political parties, local authorities and that by stakeholders will be taken as driving force in achieving Total Sanitation in the district.
- VDC/municipality meeting Total Sanitation criteria will be declared as a Total Sanitation VDC/municipality by V/M-WASHCC gradually. The movement will be driven ahead with fund and technical support of government and non-governmental agencies.

- Hygiene and sanitation activities will be tied with the day to day life of the people in the district and this will be driven ahead as common issues of development activities.
- A single entry system will be opted in providing fund support to the communities upon careful analysis of geographical condition, socio-economic and religious situation existing in the district. Policy will be followed in encouraging households to upgrade their toilet and connect with bio-gas.
- Policy will be opted in engaging fully the community-based institutions for the total sanitation movement.
- Discussion events, advocacy and mass awareness raising programme will be the means to reach the programme at the household level as well as at the individual level. In doing so, both the formal and informal media will be actively mobilized as partner in the movement.
- Local NGOs and CBOs support as a partner organization to accelerate the WASH activities in the district.

### **3.6 Operational Strategies**

Operational strategies refers to the methods that institutions use to reach their objectives. By developing operational strategies, an institution can examine and implement effective and efficient systems for using resources, personnel and the work process. To accomplish the WASH activities, the following strategies were adopted by the institutions in Gulmi district.

#### **3.6.1 WASH Operational Strategy**

The Rural Water Supply and Sanitation National Strategy (2004) will be the main guideline in implementation of activities. The approach and strategy to be adapted in course of implementation WASH schemes basically will be:

- i. Adhere the Sanitation and Hygiene Master Plan of DWSS 2011 and Rural WASH Approach of DoLIDAR 2011 in implementation of project activities including co-ordination between inter-sector and intra-sectoral programs, training, preparation of manuals and technical guidelines, studies and research activities, maintaining database, etc.
- ii. The scheme implementation will follow step-by-step approach of the District WASH Implementation Guideline.
- iii. Technology for scheme implementation will be selected to match with geographical condition and community needs. Accordingly, the selected technology will be local resource based, labor intensive, low cost, easy to operate and maintain by the community.
- iv. Design of water supply schemes will primarily be based on the national standards and guidelines. Water Safety Plan will form an integral part of the scheme design.
- v. Participation of people will invariably be an in-built approach. The communities will be involved in all stage of project cycle – project identification, survey and planning. GESI approach inclusive of poor, deprived and disadvantaged groups, elderly, children and people with disability will be the core thrust in the process.
- vi. Proportional representation of gender, caste and disadvantaged ethnic groups in formation of WUSCs will form as the mandatory condition.

- vii. Contribution level for the identified community households will be in line with the National Rural WASH policy. While implementing the WASH activities, contribution from the community will vary based on the relative poverty status, and GESI approach and remoteness of the given area.
- viii. Issues relating to Disaster Risk Reduction (DRR) and Climate Change Affect (CCA) Resilience will be addressed to the extent possible. Avoiding the factors and activities that are prone to climate change will be the core thrust. In the effort, construction activities will avoid soil erosion, landslip/slide. Activities will be geared in mitigating the prominence of soil erosion, landslip/slide, river cutting, flood and other related measures. Towards the direction, Local Adaptation Plan for Action (LAPA) prepared will serve as a guide at the district level which has mapped risk level of all the VDCs. All the VDCs in the district will prepare Community Adaptation Plan for Action (CAPA) for detailed actions.
- ix. Conservation of wetland will be done to ensure ground water re-charge and to maintain bio-diversities intact. Accordingly, source protection measures will be an in-built component in every gravity flow based water supply schemes.
- x. VDCs for implementation of WASH activities will be done on priority basis. In doing so, the following indicators with corresponding weight will be considered. Total score or composite index will be the determining factor in ranking the VDCs in order and extending support from the sector actors for implementation of the activities.
- xi. The nine point principles laid down in the Sanitation and Hygiene Master Plan, 2011 will be the guiding principles in promotion of sanitation and hygiene activities. Implementation of the hygiene and sanitation activities- safe disposal of human excreta, hand washing, protection of water & food, clean household yards, oral rehydration therapy (ORT) and waste water management will include the main activities in sanitation and hygiene promotion both at the household and institutional level.
- xii. Community system with suitable options will be established to ensure safe water supply to the households with private tube wells with substandard water quality and also in the communities using water from open sources – river, canal, and open dug well, *Kuwa*, *Panero* etc. Support for private water supply system at private level will not be supported. Households willing to have connection for private use from community system will have to invest on their own.
- xiii. Existing established water supply systems will be upgraded to make functional ensuring quality water. The community itself with technical and training support will do minor repair. External support will be extended in case of major repair and rehabilitation.
- xiv. Schools and other institutions will have GCD friendly sanitary facilities maintaining 1:50 user ratio.
- xv. Public toilet will be facilitated in the needy areas such as bus station, Hat Bazaar area, temples and other areas of public events. In doing so, facilities will invariably be of GCD (Gender, Child and Disable) friendly. Existing toilets of temporary nature in public areas will be upgraded with permanent structure and GCD facility.
- xvi. Reduction, Reuse and Recycle (3R) will be the basic principle while promoting solid waste management at the households, institutions (school and public office) and public places.



Zero Waste will be the core thrust for the rural areas and also reduction of wastes to the minimum will be main strategy in municipal areas. Attempt will be made to establish proper management system for collected waste to reuse and recycle.

- xvii. Information about existing human and fund resources with the sector actors will be collected and future possibility will be assessed. Based on the available information resource need will be projected and resource gap will be found identified keeping in view of the achievement to made in with universal coverage of WASH by 2017. The resources available at hand and possible in future with the sector agencies will be coordinated and harmonize in line with the plan.
- xviii. Marketing to meet the gap of resources to meet the WASH target by 2017 will be done at all levels starting from VDC, district and centre. In the Endeavour, various events – workshops, seminar, and use of media, at various levels will be held to tap the resources required to meet the gap.

### **3.6.2 Operational Strategy for Sanitation Movement**

Nepal aimed to complete 53% toilet coverage by 2015 to meet the Millennium Development Goal (MDG). The trend of toilet coverage indicates that Nepal will attain the MDG but it needs pragmatic vision, operational strategies, strengthened institutional arrangements, adequate resources and stakeholders' collaborative efforts to achieve the national goal of universal toilet coverage by 2017. The working sanitation movement strategies to be adapted in post-ODF movement will be:

#### **I. Discussion, Advocacy and Mass Awareness Movement**

The methods and means to be utilized to take the programme at the household and personal level will be:

- Mobilization of mass media
- Training/workshop/seminar/mass rally etc.
- Observe sanitation week
- Sanitation exhibition/festivals
- Observation tour
- Leaflets, pamphlet, hoarding board
- Door to door visit, street drama, folklore music competition
- Other means on local ethos and values

#### **II. Recognition, Reward and Punishment**

- Cash prize, recognition and appreciation letters will be provided to the VDCs for continuity of ODF. A fund will be established at the VDC level for the purpose.
- Prize and certificate will be awarded to the various institutions, volunteers, Hygiene, and Sanitation Committees at the community level.
- Deprived/disadvantaged family/ies with model latrine/sat the outset of the programme will be awarded special prize. Individuals and institutions with innovative sanitation activities will also be awarded.

#### **III. Monitoring and Evaluation**

- Committee's right from the district to community level will be formed and made active

to ensure effective implementation of programme on regular basis. For the purpose, a set of objective indicators will be worked out and self-monitoring, participatory monitoring and joint monitoring will be done.

- Mid-term and final evaluation will be carried out either by the programme sponsoring institution or external agencies to assess the impact of the programme.

#### **IV. Public Toilet Construction and Its Operation and Management**

- GCD friendly toilet with water facility will be constructed at public places, common yard, Hat Bazaar (periodic market place), highway corridor in cooperation of private and public institutions.
- Public toilets will be connected with biogas plant and ECOSAN (use of urine and excreta for manure purpose) and a suitable operational mechanism to entrust the toilet management to community/ies will be worked out.

#### **V. Type and Nature of Support to be Extended to Ultra Poor Family**

- V/M-WASHCC will identify ultra-poor households in the VDC and decide the type and nature of support to such households in promoting toilet construction.

#### **VI. Development of Rules for Use of Constructed Facilities**

- Rules and regulations at community level for making use of constructed facilities to see hygiene & sanitation as way of day-to-day life of people will be formulated and implemented.

#### **VII. Capacity Development and Awareness Raising Activities**

- Training/workshop/seminar/mass rally etc.
- Awareness raising activities aimed at community level actors and institutions.
- Conduct experimental programme.
- Sanitation exhibition/festivals.
- Observation tour.
- Carry out self-assessment exercise.

#### **VIII. Integration of Sanitation and Hygiene Activities in Development Programme**

- Sanitation and Hygiene activities will be made integral part of all the development programs including education, transport, tourism, agriculture, energy etc.

#### **IX. Communication, Coordination and Cooperation**

- Publicize hygiene & sanitation activities.
- Publish and broadcast articles and interviews related to notable sanitation activities.
- Broadcast and publish the inspiring information on hygiene and sanitation.
- Include Hygiene and Sanitation as one topic in meeting and workshop events at local level.
- Broadcast and publicize "Sanitation as indicator Civilized life".
- Allocate fund for model project for publicity.
- Prepare pamphlets/leaflets and keep hoarding board at schools and public places.
- Drive the special publicity works on hygiene and sanitation.

**X. Innovative Technology**

- Selection of technology will be tuned to socio-economic and geographic condition.
- Emphasis will be laid in establishing biogas plants and the income from carbon trade will be invested in sanitation programme activities. Political and administrative effort will be geared to bring income from carbon sale in the district.

**XI. Inter-agency Cooperation**

- The movement to achieve total sanitation will be driven ahead in the district with support and cooperation of the government and non-governmental agencies and institutions active in district.
- Budget allocated by GoN for water supply and sanitation for schools will also be channelized based on the priority and programme stipulated in the strategic plan.

**XII. Programme Model**

- Either CLTS or SLTS model can be applied in driving the sanitation movement however VDC/VWASHCC should be prime loci on mandatory basis.

**XIII. Establishment of Sanitation Fund**

- A District Sanitation Fund will be established where in the fund earmarked for sanitation programme of all the actors engaged in implementation of sanitation programme will be deposited. This fund will be managed as per the procedures formulated by DWASHCC. As per now, existing policy and corresponding rules are yet to be tuned in this direction however; sanitation programme will be implemented by integrating the programme of the sector actors till such fund is established.
- A Sanitation Basket Fund will be established at the VDC level too to be operated and managed separately.
- At school level, a Sanitation Fund with the donation of people will be established aiming at supporting the poor households in the given community.
- Bookkeeping and record keeping of such funds under the sanitation movement programme will be maintained as per the given financial rules of the government. The progress achieved and expenses made will be made public to ensure financial transparency in the programme.

## CHAPTER – 4: PRIORITY RANKING AND ACTIONS OF WASH PROGRAMS

### 4. Background

Priority ranking is a participatory technique that allows analysing and identifying problems or preferences stakeholder share in order to implement adequate improvements and solutions in their communities and area. First, the stakeholders decide the most important problems that they face in their community are. Afterwards, the participants do rank these problems/preferences in regards to their importance. The result of this method provides the starting base for discussions on possible solutions to the priority problems. In following sub-sections the priority ranking and actions of wash programs have been illustrated.

#### 4.1 Priority ranking of WASH proramme

Access to safe drinking water, adequate sanitation, and proper hygiene are contributed to reduce illness and death, and increase life longevity. Poor sanitation contributes countless deaths every year due to diarrhea, and chronic diarrhea. In addition, lack of WASH facilities can prevent students from attending school, impose a burden on women, and diminish productivity. Keeping in mind, GoN has put the WASH sector as major priority during the 7th Plan (1986–90) through innovative approaches. The Rural Water Supply and Sanitation Fund Development Board (RWSSFDB) was established in 1990s to implement a ‘demand-driven’ based rural water supply project. In addition, community-led total sanitation approach, participatory development, and public-private partnership approaches were employed to improve the water supply, sanitation and hygiene. These approaches were contrasting the conventional supply-driven approach, and directly empowered communities, promoted transparency.

Nevertheless, resource constraints and insufficient technical support lead to unable implement all projects in entire coverage. In Gulmi district, Implementation of WASH activities in all 75 VDCs/Municipality is hard to reach both from the financial human resources at once. Thus, a decision was made by DDC to implement the activities in different phases and cover all VDCs according to phase wise under setting priority. In determining the weightage a total of 75 points for service level and 25 for cross-cutting indicators considering geographical and environmental and socio-economic realities existing in the district. The service level weightages are again distributed sub-indicators of service levels. The major weightage is given to water supply coverage (35 points) to address the major challenges of water like reaching to unreached, functionality (30 points) and water in Schools and Institutions (10). The indicators and corresponding weightage include:

**Table 4.1: Scoring Criteria for VDC Ranking for domestic water supply**

| Water Supply Coverage (75)                 | Remoteness (15)                          | % of DAG Population (10)   |
|--|--|----------------------------|
| % of Unserved households (35)              | Distance from all-weather road head (10) | % of Dalit households (10) |
| Functionality of existing DWS Schemes (30) | Distance from seasonal road head (5)     |                            |
| Water in Schools and Institutions (10)     |  |                            |

Implementation of WASH activities in the VDCs will be done on priority basis, using the results calculated from the above weighted score. Based on the calculated scores, VDCs for implementing the activities by priority order are as follows:

The VDCs for implementation of WASH activities was completed on priority basis using the total composite index calculated from the above weighted score. Based on the calculated composite index, name of the VDCs in order for implementing the activities by priority order follow as: The detail of priority ranking of according to DWS, sanitation and composite table has been given in **Annex 9, 10, and 11.**

**Table 4. 2: Priority Ranking of VDCs according to DWS**

| S.N | VDC               | Total Score | Rank | S.N | VDC             | Total Score | Rank |
|-----|-------------------|-------------|------|-----|-----------------|-------------|------|
| 1   | Daungha           | 78.0        | 1    | 39  | Neta            | 39.8        | 39   |
| 2   | Dalamchaur        | 75.6        | 2    | 40  | Chhapahile      | 39.8        | 40   |
| 3   | Badagaun          | 75.0        | 3    | 41  | Sirsieni        | 39.7        | 41   |
| 4   | Bamgha            | 74.1        | 4    | 42  | Hawangdi        | 39.1        | 42   |
| 5   | Jaisithok         | 71.7        | 5    | 43  | Khadgakot       | 38.9        | 43   |
| 6   | Wagla             | 71.2        | 6    | 44  | Hunga           | 38.9        | 44   |
| 7   | Dhurkot Rajasthal | 69.9        | 7    | 45  | Hansara         | 38.7        | 45   |
| 8   | Paudhi Amarayee   | 69.6        | 8    | 46  | Apchaur         | 38.6        | 46   |
| 9   | Arlangkot         | 69.0        | 9    | 47  | Rupakot         | 37.3        | 47   |
| 10  | Darbar devisthan  | 68.4        | 10   | 48  | Wamitaksar      | 36.3        | 48   |
| 11  | Pipaldhara        | 68.3        | 11   | 49  | Birbas          | 36.1        | 49   |
| 12  | Digam             | 65.0        | 12   | 50  | Harmichaur      | 35.7        | 50   |
| 13  | Musikot           | 64.2        | 13   | 51  | Kurgha          | 35.3        | 51   |
| 14  | DhurkotBastu      | 63.7        | 14   | 52  | Shantipur       | 35.0        | 52   |
| 15  | Hastichaur        | 61.9        | 15   | 53  | Bajhketeria     | 34.8        | 53   |
| 16  | Hardineta         | 58.8        | 16   | 54  | IsmaRajasthal   | 34.2        | 54   |
| 17  | Baletaksar        | 56.7        | 17   | 55  | Purtighat       | 34.0        | 55   |
| 18  | Balithum          | 53.9        | 18   | 56  | DhurkotNayagaun | 33.6        | 56   |
| 19  | Gaidakot          | 53.4        | 19   | 57  | Reemuwa         | 32.4        | 57   |
| 20  | Turang            | 50.8        | 20   | 58  | Harewa          | 32.1        | 58   |
| 21  | Dirbung           | 50.8        | 21   | 59  | Bisukharka      | 30.9        | 59   |
| 22  | MyalPokhari       | 50.4        | 22   | 60  | Amarpur         | 30.8        | 60   |
| 23  | Aaglung           | 50.2        | 23   | 61  | Johang          | 30.6        | 61   |
| 24  | Hadahade          | 49.1        | 24   | 62  | Gwagha          | 30.4        | 62   |
| 25  | Arbani            | 48.6        | 25   | 63  | Foksing         | 29.2        | 63   |
| 26  | Bharse            | 48.2        | 26   | 64  | Limgha          | 26.9        | 64   |
| 27  | Marbhung          | 48.2        | 27   | 65  | Arkhang         | 26.4        | 65   |
| 28  | Pallikot          | 48.0        | 28   | 66  | Bhurtung        | 25.0        | 66   |
| 29  | Juvung            | 47.5        | 29   | 67  | Kharjyang       | 24.9        | 67   |
| 30  | Jayakhani         | 47.3        | 30   | 68  | AmarArbathok    | 24.5        | 68   |
| 31  | Darling           | 45.2        | 30   | 69  | Gwadi           | 23.9        | 69   |
| 32  | Ghamir            | 44.1        | 32   | 70  | Arje            | 23.9        | 70   |
| 33  | Harrachaur        | 44.1        | 33   | 71  | Dohali          | 22.5        | 71   |
| 34  | Thulolumpek       | 42.6        | 34   | 72  | Paralmi         | 22.3        | 72   |
| 35  | Malagiri          | 41.6        | 35   | 73  | Resunga NP      | 18.5        | 73   |
| 36  | Juniya            | 41.6        | 36   | 74  | Thanpati        | 18.1        | 74   |
| 37  | PurkotDaha        | 41.2        | 37   | 75  | Ruru            | 17.1        | 75   |
| 38  | Bhanbhane         | 41.2        | 38   | 76  | Aslewa          | 11.8        | 76   |

In 2011, SHMP recommended that all the households of the district should have to be facilitated by toilet facilities either by permanent or temporary type. District is already declared for Open defecation free district that means no households are defecating in open places. However, the field survey reveals that some houses do not practice the toilet facilities. Similarly there are no information regarding the status of the VDCs in respect to different indicators of total sanitation. To end this gap, DWASHCC need to take a lead role and encourage other stakeholders for data collection and then rank the VDCs analysing the information collected.

**Table 4. 2: Priority Ranking of VDCs according to Sanitation and Hygiene**

| S.N | VDC             | Total Score | Rank | S.N | VDC              | Total Score | Rank |
|-----|-----------------|-------------|------|-----|------------------|-------------|------|
| 1   | Bisukharka      | 46.9        | 1    | 39  | Chhapahile       | 24.3        | 39   |
| 2   | Jayakhani       | 36.0        | 2    | 40  | Hawangdi         | 24.3        | 40   |
| 3   | Darbardevisthan | 32.6        | 2    | 41  | IsmaRajasthal    | 24.0        | 41   |
| 4   | Limgha          | 31.6        | 4    | 42  | Harmichaur       | 24.0        | 42   |
| 5   | Harrachaur      | 31.3        | 5    | 43  | Ghamir           | 24.0        | 43   |
| 6   | Juniya          | 31.1        | 6    | 44  | Musikot          | 23.3        | 44   |
| 7   | Arlangkot       | 30.8        | 6    | 45  | Birbas           | 23.3        | 44   |
| 8   | Arje            | 30.0        | 6    | 46  | Harewa           | 22.6        | 44   |
| 9   | Hastichaur      | 29.7        | 6    | 47  | Amarpur          | 22.6        | 44   |
| 10  | MyalPokhari     | 29.5        | 10   | 48  | Sirseni          | 22.0        | 44   |
| 11  | Kurgha          | 29.4        | 11   | 49  | Paralmi          | 22.0        | 49   |
| 12  | Bhanbhane       | 29.2        | 12   | 50  | Gwadi            | 21.6        | 50   |
| 13  | Darling         | 29.1        | 12   | 51  | Gaidakot         | 20.9        | 50   |
| 14  | Foksing         | 29.1        | 12   | 52  | Juvung           | 20.8        | 50   |
| 15  | Bamgha          | 28.8        | 12   | 53  | DhurkotBastu     | 20.7        | 50   |
| 16  | Apchaur         | 28.5        | 16   | 54  | AmarArbathok     | 20.3        | 50   |
| 17  | Wamitaksar      | 28.5        | 17   | 55  | Digam            | 20.2        | 50   |
| 18  | Jaisithok       | 28.4        | 18   | 56  | Thanpati         | 20.0        | 56   |
| 19  | Malagiri        | 28.3        | 18   | 57  | Thulolumpek      | 20.0        | 57   |
| 20  | Shantipur       | 27.9        | 18   | 58  | Rupakot          | 19.7        | 57   |
| 21  | Pipaldhara      | 27.7        | 18   | 59  | Daungha          | 19.7        | 57   |
| 22  | Gwagha          | 27.5        | 22   | 60  | DhurkotNayagaun  | 19.0        | 57   |
| 23  | Bajhketeria     | 27.4        | 23   | 61  | Turang           | 18.8        | 61   |
| 24  | Purtighat       | 27.3        | 23   | 62  | Dalamchaur       | 18.6        | 62   |
| 25  | Neta            | 27.1        | 25   | 63  | Aslewa           | 18.5        | 62   |
| 26  | Badagaun        | 26.8        | 26   | 64  | Pallikot         | 18.3        | 62   |
| 27  | Bhurtung        | 26.4        | 27   | 65  | DhurkotRajasthal | 18.2        | 65   |
| 28  | Johang          | 26.4        | 28   | 66  | Dohali           | 18.1        | 66   |
| 29  | PaudhiAmarayee  | 26.1        | 29   | 67  | PurkotDaha       | 17.9        | 66   |
| 30  | Bharse          | 26.0        | 29   | 68  | Balithum         | 17.5        | 66   |
| 31  | Aaglung         | 26.0        | 29   | 69  | Kharjyang        | 17.3        | 66   |
| 32  | Arkhang         | 25.8        | 29   | 70  | Dirbung          | 15.8        | 66   |
| 33  | Hunga           | 25.6        | 29   | 71  | Hadahade         | 14.8        | 71   |
| 34  | Khadgakot       | 25.5        | 34   | 72  | Hardineta        | 14.3        | 71   |
| 35  | Hansara         | 25.3        | 34   | 73  | Ruru             | 14.2        | 71   |
| 36  | Reemuwa         | 24.7        | 34   | 74  | Wagla            | 13.7        | 71   |
| 37  | Marbhung        | 24.5        | 34   | 75  | Baletaksar       | 13.3        | 75   |
| 38  | Arbani          | 14          | 38   | 76  | Resunga NP       | 7.1         | 76   |

## 4.2 Programme of Action

### 4.2.1 Water Supply

In Nepal, only 34 percent of the people living in rural areas had access to the safe drinking water in 1990, this has increased to nearly 81 percent currently. Under the current legal system, various development partners are directly or indirectly involved in the drinking water supply services. The National Water Resources Development Council (NWRDC) is the highest authority for making decisions on water related issues. The Ministry of Physical Planning and Works (MoPPW) holds sectoral responsibility and makes policies and strategies at the national level for DWSS. At the local level, the DDC is the key institution in each district for the planning, implementing and coordinating DWSS projects. The VDC is the lowest governance unit of sub-national government structures, and has responsibility for the coordination and facilitation of project implementation.

In Gulmi district, At present, available NMIP database, 2012 reveal that 15,080 households have had been using water from unprotected sources such as open dug well/*Kuwa*, stream, canal and other water points (Table 4). Therefore, new water supply systems will be established to serve this section of population in the district by different water supply technologies - gravity flow system, pumping system of various sizes, piped/tap and filtration system. Table 22 below provides the population to be served by these all technologies.

**Table 4.3: Households to be served by New Schemes by Type**

| SN | Type of Water Supply System     | % Household to be served | Projected households to be Served |              |              |              |              |
|----|---------------------------------|--------------------------|-----------------------------------|--------------|--------------|--------------|--------------|
|    |                                 |                          | 2016                              | 2015         | 2018         | 2019         | 2020         |
| 1  | Gravity flow system             | 64.7                     | 69.88                             | 75.47        | 79.99        | 84.79        | 91.58        |
| 2  | Pumping system of various sizes | 2.64                     | 2.90                              | 3.25         | 3.64         | 4.15         | 5.19         |
| 3  | Filtration system               | 3.44                     | 3.78                              | 4.24         | 4.75         | 5.41         | 6.76         |
| 4  | Rain water collection           | 2.65                     | 2.92                              | 3.26         | 3.66         | 4.17         | 5.21         |
| 5  | Protected well/ <i>Kuwa</i>     | 7.35                     | 8.09                              | 9.06         | 10.14        | 11.56        | 14.45        |
|    | Percentage                      | <b>80.78</b>             | <b>17.51</b>                      | <b>19.06</b> | <b>20.44</b> | <b>22.02</b> | <b>24.64</b> |

### 4.2.2 Improvement of Existing Water Supply Systems

The existing water supply system in Gulmi district is not enough to fulfil the demand of clean drinking water for people. These institutions have been contributing to improving the water supply system and to increase the capacity of drinking water supply. LBs and supporting organizations have been facilitating institutional reform and capacity building of WASH. The information shows 53.2% schemes needed minor repair, 5.9% schemes required major repair, 10% schemes essentially remained to extension reconstruction, while 11.5% schemes were dysfunctional. Nevertheless, 19.40% schemes were well-functioning status.

**Table 4.4: Households Coverage by Schemes under Major Repair**

| Type of Water Supply System                        | Number of HHs to be served | Present HH to be served (%) | Projected households to be Served (%) |       |       |       |       |         |
|--|----------------------------|-----------------------------|---------------------------------------|-------|-------|-------|-------|---------|
|  |                            |                             | 2016                                  | 2017  | 2018  | 2019  | 2020  | Average |
| Schemes with minor repair                          | 24811                      | 53.2                        | 50.54                                 | 48.01 | 45.61 | 43.33 | 41.17 | 45.73   |
| Schemes with major repair                          | 2752                       | 5.9                         | 5.72                                  | 5.55  | 5.27  | 5.01  | 4.76  | 5.26    |
| Schemes with extension Schemes with reconstruction | 4664                       | 10                          | 9.22                                  | 7.54  | 5.52  | 4.05  | 2.58  | 5.78    |

| Type of Water Supply System | Number of HHs to be served | Present HH to be served (%) | Projected households to be Served (%) |            |            |            |            |            |
|-----------------------------|----------------------------|-----------------------------|---------------------------------------|------------|------------|------------|------------|------------|
|                             |                            |                             | 2016                                  | 2017       | 2018       | 2019       | 2020       | Average    |
| Dysfunctional               | 5363                       | 11.5                        | 9.44                                  | 7.86       | 5.47       | 3.55       | 2.51       | 5.77       |
| Well-functioning            | 9048                       | 19.40                       | 25.08                                 | 31.04      | 38.12      | 44.06      | 48.99      | 37.46      |
| <b>Total</b>                | <b>46637</b>               | <b>100</b>                  | <b>100</b>                            | <b>100</b> | <b>100</b> | <b>100</b> | <b>100</b> | <b>100</b> |

#### 4.2.3 Establishment of Water Supply System in Schools and Other Institutions

Drinking water supply and sanitation in Gulmi district mainly in schools and other institutions either inadequate or not properly managed. To achieve the national standards of water and sanitation, the demand-driven approach community-led total sanitation has been launched. The table below indicates improvement mechanism in Gulmi district.

**Table 4.5: Improvement needs in Water Supply System in Schools & other Institutions**

| SN | Activities                   | School |         | Other institutions |         |
|----|------------------------------|--------|---------|--------------------|---------|
|    |                              | Number | Percent | Number             | Percent |
| 1  | Establishment of New Schemes | 167    | 30 %    | 142                | 100     |
| 2  | Minor/Major Repair Schemes   | 384    | 70 %    | 83                 | 58%     |

*Source: Field survey, 2070*

#### 4.2.4 Inventory of Water Sources

A study for water resources within the district is greatly essential to find out the source and plan for distribution. DDC, DWSSO and number of funding agencies of Gulmi district have planned to carry out the study in near future. The study will be able to find out the permanency of water resources. The findings of the study will be key resources in formulating policy and plan for overcoming the problem of water supply in dry season to ensure use of ground water on sustained basis.

#### 4.2.5 Adaptation of Water Safety Plan

Quality of water from the existing schemes for drinking purpose has been questioned in various liturgies, calling for immediate improvement. Water safety plan will be built-in for new schemes to be constructed in design phase itself and in case of existing scheme; provision for physical improvement programme has been made to ensure safe water to the people in the district. In the front, all the VDCs/Municipality will implement Water Safety Plan in all the water points and schemes on mandatory basis. For the purpose, repair, and rehabilitation of existing sick schemes is planned in all the VDCs before implementation of Water Safety Plan. In this line, 15 VDCs/Municipality out of 76 VDCs and 1 Municipalities have been started and the progress will be achieved from the year 2017-2020. Similarly, the universal coverage by Water supply with assured quality will be achieved by 2020 in each VDCs. Priority ranking of VDCs in order and type of programme activities to be implemented are provided in Annex. Provision for Basket Fund has been made to facilitate the purchase of laboratory equipment's and reagents and human resource to ensure the safe quality water in the supply system in each VDC/Municipality of the district.



#### 4.2.6 Sanitation and Hygiene

The district was declared ODF in 2014 as the in Nepal and the Gulmi DDC has worked out the post ODF strategy to work on it and in the process to achieve Total Sanitation by 2017. The activities planned in the Post ODF strategy are as follows:

**Table 4.6: Post ODF Activities in VDCs and Municipality**

| Milestones                              | VDC/Municipality by Year |      |      |      |      |
|---|--------------------------|------|------|------|------|
|   | 2016                     | 2017 | 2018 | 2019 | 2020 |
| Sustain the ODF Status (TS declaration) | 3                        | 6    | 10   | 26   | 30   |
| Post ODF activities in VDCs             | 9                        | 12   | 20   | 20   | 15   |

*Source: Field survey, 2070*

Since the district has been already declared the ODF district, activities will be focused on improvement of toilet and ways of using the toilets. Likewise, the toilets will be facilitated in various important public places, highway corridor, Hat Bazaar, core market centres, temples etc.

After constructing the required number of toilet, focus on total behaviour change in hygiene and sanitation. For this purpose, campaigning programme will be carried out. The programme will address the total wash at household level, institutional level and Small Doable Action (SDA). For the aforementioned activities, mobilization of mass communication media will be done in order to intensify the hygiene and sanitation awareness right to the individual level. In the same manner, reward/prize/recognition to the outstanding workers and institutions are also provisioned to accelerate the hygiene and sanitation activities in the district.

**Table 4.7: Activities to be undertaken in Hygiene & Sanitation Improvement**

| SN        | Activities   | Unit                | Quantity |
|-----------|--|---------------------|----------|
| <b>1</b>  | <b>Sustaining as the ODF zone</b>  |                     |          |
| 1.1       | Regulation of seminar monitoring to improve household Toilets  | VDC / Municipality  | 75 +1    |
| 1.2       | New toilet construction in Schools   | Number              | 47       |
| 1.2       | Extension and improvement of school's toilet (384 schools )  | Number              | 384      |
| 1.3       | Institutional toilet construction (new)  | No. of Institutions | 105      |
| 1.4       | Upgrading of existing toilets including to make it GCD friendly  | No. of Institution  | 115      |
|           | Post ODF activities (use of toilet, hand washing behaviour, households level sanitation and total behaviour change for total sanitation) | VDC / Municipality  | 76       |
| 1.5       | Management and regulation of public toilet in busy market area, main occasional market, main highways                                    | Public place        | 25       |
| <b>2.</b> | <b>Solid and liquid waste management</b>   |                     |          |

| SN       | Activities  | Unit              | Quantity |
|----------|---|-------------------|----------|
| 2.1      | Formation of solid and liquid waste in urban and semi urban area and main highways                              | District          | 1        |
| 2.2      | Implementation of model plan in the area confined by the Study  | Model plan        | 1        |
| <b>3</b> | <b>Climate change adaptation Activities</b>   |                   |          |
| 3.1      | Protection of source area of water supply (at least 50 % of existing schemes)                                   | Number            | 650      |
| 3.2      | Construction and improvement of pond for source of water<br>Supply 75 for each year/at least 1 pond per VDC)    | Number            | 375      |
| 3.3      | Management of technology of ECOSAN latrine  | VDC/Municipality  | 10       |
| 3.4      | Workshop on Climate Change Adaptation Activities in VDC and district level                                      | District/<br>VDC/ | 80       |
| <b>4</b> | <b>Institutional development</b>  |                   |          |
| 4.1      | Capacity Development events of DWASHCC (at least 1 per year)  | Number            | 8        |
| 4.2      | Capacity Development events of V/MWASHCC  | VDC/Municipality  | 76       |
| <b>5</b> | <b>Advocacy, monitoring and updating of DSWASHP</b>   |                   |          |
| 5.1      | District level coordination meeting with stakeholder (Quarterly)  | No. of event      | 15       |
| 5.2      | Seminar with stakeholder to play coordinating role to conduct activities of DSWASHP (at least 1 event per year) | No. of event      | 5        |
| 5.3      | Annually review of DSWASHP and updating (every year)  | Year              | 5        |

Source: Field survey, 2070

#### 4.2.7 Solid and Liquid Waste Management

Situation study on solid and liquid waste in the district mainly in the core urban, sub-urban, and highway corridor will be conducted. The findings made from the study are aimed to prepare district solid waste management plan. In the course, some of the selected activities related to waste management will be implemented on pilot basis in two of the selected areas in the district in order to experiment the suitability of technology followed in countries other than Nepal.

#### 4.2.8 Climate Change Adaptation

Community forestry based CAPA (Community Adaptation Plan for Action) has been initiated to formulate at the VDC level by the support of District Forest Office and FECOFUN. Preparation of CAPA has been taking well place at the VDCs and Municipality level.

#### 4.2.9 Income generation and livelihoods promotion activities

Income is an asset to transform the livelihood from scarcity to better off. Most of the rural communities in Gulmi district are below of the average annual income of the district. To end the situation, many organizations including WASH are engaged to uplift the rural livelihood

system. The table below indicates the activities that are related to income generations.

**Table 4.8: Activities to be held for promotion of income generation**

| SN | Activities            | Unit                 | Quantity |      |      |      |      |
|----|-----------------------|----------------------|----------|------|------|------|------|
|    |                       |                      | 2016     | 2017 | 2018 | 2019 | 2020 |
| 1  | Capacity building     | Persons              |          |      |      |      |      |
| 2  | Promotion and linkage | VDC and Municipality | -        | 20   | 20   | 20   | 16   |

Source: Field survey, 2070

#### 4.2.10 VDC WASH Plan Preparation

Gulmi district do not have the plan of formulating of VDC/Municipality WASH plan for implementation of WASH activities. However, for the promotion of the post ODF and sustaining sanitation behaviour change activities District is planning for preparing total sanitation strategy and action plan for each VDCs of Gulmi. NGOs and CAC and WCF will be engaged in assisting the VWASHCC in preparation of the plan. Capability of NGOs will be carefully assessed into account in mobilizing them in assisting the VWASHCC/MWASHCC. DWASHCC will organize orientation programme to the selected NGOs.

**Table 4.9: Preparation and Updating of VDC/Municipality level pan in phases**

| Activities   | VDC/Municipality by year |      |      |      |      |
|--|--------------------------|------|------|------|------|
|  | 2016                     | 2017 | 2018 | 2019 | 2020 |
| Preparation of post ODF strategies and action plan | 16                       | 30   | 30   | -    |      |
| Review/updating of V-WASH/M-WASH plans             |                          | 16   | 30   | 30   | 30   |
| Preparation of CAPA                                |                          |      |      |      |      |

Source: Field survey, 2070

#### 4.2.11 Institutional Development and related Capacity Building needs

Training events/Workshops/seminars will be held regular on basis to strengthen the capacity of the respective coordination committees as well as overview the progress in planned activities, resolving the problems/constraints faced and to streamline the planned activities as intended. Cross study, visits also will be organized to learn from the best cases. The number of the participants for the various events to be organized follows in the table below.

**Table 4.10: Capacity Development events at institutional level**

| SN | Capacity building training activities to | Numbers of events |      |      |      |      |
|----|--|-------------------|------|------|------|------|
|    |  | 2016              | 2017 | 2018 | 2019 | 2020 |
| 1  | VWASH-CC(continuous)                     |                   |      |      |      |      |
| 2  | MWASH-CC                                 | 2                 | 2    | 2    | 2    | 2    |
| 3  | DWASH-CC                                 | 2                 | 2    | 2    | 2    | 2    |

Source: Field survey, 2070

In order to strengthen the capacity, training will be provided in 46 VWASH-CC, one MWASH-CC and one DWASH-CC.

#### 4.2.12 Coordination, Monitoring and Updating of DSWASHP

Coordination meetings will be held on trimester basis to review the progress and resolve the problems faced. Accordingly, workshop to coordinate the actions of the actors to meet the resource gap will be held on half-yearly basis. Moreover, one event in each year will be held in participation of multi-stake holders, political party representatives, mass media and other relevant persons in the sector to update the progress and prepare plan of actions for the remaining period of the plan has given in table below.

**Table 4.11: Coordination and Updating of DSWASHP**

| Activities  | Events (Number) |      |      |      |      |
|---|-----------------|------|------|------|------|
|   | 2016            | 2017 | 2018 | 2019 | 2020 |
| Coordination meeting with DWASHCC (Trimester)                         | 4               | 4    | 4    | 4    | 4    |
| Workshop to streamline financing the planned activities (Half-yearly) | 2               | 2    | 2    | 2    | 2    |
| Review and update the action plan (annual)                            | 2               | 2    | 2    | 2    | 2    |

## CHAPTER – 5: RESOURCE ANALYSIS

### 5.1 Fund Requirement

A resource is anything that is used to satisfy human needs. Typically resources are materials, energy, services, staff, knowledge, or other assets that are transformed to produce benefit and in the process may be consumed or made unavailable. Resources necessarily links with fund and broad range of assets. The purpose of the fund utilization is to invest for materials, manpower other capacity development activities that aims to construct the schemes and projects. In following subsections fund will be utilized in various activities.

#### 5.1.1 Unit Rate of materials, training/workshop, studies and rewards

Estimate of fund requirement are based on the present unit rate for man and material prevailing in the district. The unit rates considered in projecting the cost requirement for planned activities are presented in table below. Inflation rate as average 10 % has been taken into account for each year cost calculation. However, the population growth rate of the district according to the census of 2011 is decreasing by 0.4 percent therefore, not taken into account. The unit rate of a person, materials for activities have been shown in table below well as the details of information have been mentioned in Annex.

**Table 5.1: Unit Rate of a Person and Materials for Activities**

| SN       | Activities   | Unit | Quantity | Rate ('000) | Total ('000) | Grand total ('000) |
|----------|--|------|----------|-------------|--------------|--------------------|
| <b>1</b> | <b>Water supply, sanitation and hygiene plan Plan preparation and update:</b>      |      |          |             |              | <b>4,150</b>       |
| 1.1      | Preparation of VDC post ODF/Total Sanitation strategies                            | No.  | 75       | 5           | 375          |                    |
| 1.2      | Preparation of Municipality post ODF/Total Sanitation strategic plan               | No.  | 1        | 100         | 100          |                    |
| 1.4      | D-WASH-Plan printing and dissemination workshops                                   | No.  | 1        | 200         | 200          |                    |
| <b>2</b> | <b>Access to basic water supply to all by 2020:</b>                                |      |          |             |              | <b>1,143,580</b>   |
| 2.1      | Reaching to unreached-new projects/Gravity/Pumping/other( average 8000 per capita) | HH   | 19,428   | 43.2        | 839,290      |                    |
| 2.2      | Minor repair of Water Supply schemes   | HH   | 24,810   | 4           | 99,240       |                    |
| 2.3      | Major repair of Water Supply Schemes   | HH   | 2,751    | 20          | 55,020       |                    |
| 2.4      | Rehabilitation of water supply schemes   | HH   | 5,363    | 22          | 117,986      |                    |
| 2.5      | Reconstruction of water supply schemes   | HH   | 558      | 25          | 13,950       |                    |
| 2.6      | Regulation of well function projects and management support                        | HH   | 9,047    | 2           | 18,094       |                    |
| <b>3</b> | <b>Water supply facility improvement in school and institution-</b>                |      |          |             |              | <b>47,420</b>      |
| 3.1      | Rehab/ Major repair of Water supply in schools and institution                     | Nos  | 384      | 80          | 30,720       |                    |

| SN        | Activities   | Unit     | Quantity | Rate ('000) | Total ('000) | Grand total ('000) |
|-----------|--|----------|----------|-------------|--------------|--------------------|
| 3.2       | New Water supply in schools and institutions                                       | Nos      | 167      | 100         | 16,700       |                    |
| <b>4</b>  | <b>Post ODF –Hardware</b>  |          |          |             |              | <b>44,890</b>      |
| 4.1       | Monitoring/ follow-up/ of condition of use of toilets                              | LS       | 1        | 15          | 15           |                    |
| 4.2       | Triggering for scale up/rebuild of old toilets- (Rs 50 X 76X2)                     | LS       | 1        | 7600        | 7,600        |                    |
| 4.3       | School Toilet – new  | Nos.     | 47       | 175         | 8,225        |                    |
| 4.4       | School latrines-supplementary to existing toilets to make GESI friendly & adequate | Nos.     | 384      | 50          | 19,200       |                    |
| 4.5       | Institutional Toilet – new   | Nos.     | 105      | 50          | 5,250        |                    |
| 4.6       | Toilets for public places  | Nos.     | 20       | 200         | 4,000        |                    |
| 4.7       | ECOSAN promotion   | Nos.     | 10       | 30          | 300          |                    |
| 4.8       | Biogas promotion   | Nos.     | 10       | 30          | 300          |                    |
| <b>5</b>  | <b>Post ODF -Human resources development</b>                                       |          |          |             |              | <b>5,120</b>       |
| 5.1       | Triggering to VWASH/M-WASH CC  | Person   | 250      | 2           | 500          |                    |
| 5.2       | Orientation/training of total sanitation for VWASH/M-WASH CC                       | Person   | 720      | 2           | 1,440        |                    |
| 5.3       | Total sanitation volunteers' orientation/mobilization at ward levels               | Person   | 700      | 3           | 2,100        |                    |
| 5.4       | Mason's training for ECOSAN and Biogas and market chain development                | Person   | 108      | 10          | 1,080        |                    |
| <b>6</b>  | <b>Sustainability of Hygiene &amp; Sanitation (for post ODF)</b>                   |          |          |             |              | <b>7,700</b>       |
| 6.1       | Volunteers/ community mobilization for sustainable hygiene and sanitation          | VDC      | 77       | 100         | 7,700        |                    |
| <b>7</b>  | <b>Water quality monitoring and surveillance</b>                                   |          |          |             |              | <b>180</b>         |
| 7.1       | Water quality monitoring and test  | sample   | 3,000    | 0.06        | 180          |                    |
| <b>8</b>  | <b>Solid and liquid waste management:</b>  |          |          |             |              | <b>15,580</b>      |
| 8.1       | Preparation of solid waste management plan in urban and semi urban area            | District | 1        | 500         | 500          |                    |
| 8.2       | Campaign for 4R (reduce, refuse, recycle, reuse) in solid waste management         | VDC      | 76       | 30          | 2,280        |                    |
| 8.3       | campaign for isolated septic tank and soak pit                                     | District | 1        | 200         | 200          |                    |
| 8.4       | construction of storm water drainage and intercepting pond for recharge            | Nos.     | 76       | 100         | 7,600        |                    |
| 8.5       | land fill site construction  | Nos.     | 15       | 5,000       | 5,0000       |                    |
| <b>9</b>  | <b>Climate change induced disaster resilient WASH System</b>                       |          |          |             |              | <b>31,000</b>      |
| 9.1       | Follow up of ICS program   | VDC/MP   | 75+1     | 5           | 3,80         |                    |
| 9.2       | Source conservation in water source catchment in foothills                         | Sources  | 650      | 20          | 13,000       |                    |
| 9.3       | Promotion of recharge ponds  | VDC      | 380      | 50          | 19000        |                    |
| <b>10</b> | <b>Institutional development</b>   |          |          |             |              | <b>600</b>         |
| 10.1      | Capacity building of VWASH-CC  | Person   | 900      | 0.5         | 450          |                    |
| 10.2      | Capacity building of DWASH-CC  | Person   | 150      | 1           | 150          |                    |

| SN        | Activities   | Unit   | Quantity | Rate ('000) | Total ('000)        | Grand total ('000)  |
|-----------|--|--------|----------|-------------|---------------------|---------------------|
| <b>11</b> | <b>Advocacy, monitoring and updating of District Strategic WASH Plan:</b>  |        |          |             |                     | <b>1,650</b>        |
| 11.1      | Coordination meeting with WASH stakeholders for monitoring of implemented activities of the plan (Quarterly)                   | Events | 15       | 10          | 150                 |                     |
| 11.2      | Workshop for coordinated action and financing of the planned activities for implementing the strategic WASH plan (six monthly) | Events | 10       | 100         | 1,000               |                     |
| 11.3      | Review and update the action plan (annual)   | Year   | 5        | 100         | 500                 |                     |
| <b>12</b> | <b>Total Sanitation declaration (honor/reward to person/institution, etc.)</b>   |        |          |             |                     | <b>4,800</b>        |
| 12.1      | Honor and Reward (person/institution working in WASH)  | VDC    | 76       | 100         | 7600                |                     |
| 12.2      | IEC/BCC materials (VDC, MP, Dist)  | Year   | 5        | 500         | 2500                |                     |
| 12.3      | Media Mobilization/Newsletter etc.   | Year   | 5        | 100         | 500                 |                     |
|           | <b>Total district budget required for five years (2016-2020)</b>   |        |          |             | <b>1,306,669.60</b> | <b>1,306,669.60</b> |

Note: Average per capita cost for all type of schemes (new) is calculated at NPRs. 10,000.

Population calculation is done by dividing HHs X 4.32 (population per HHs) one scheme is serving 120 HHs in average

Source: Field survey, 2071

### 5.1.2 Projection of Fund

Funding is the act of providing financial resources, usually in the form of money, or other values such as effort or time, to finance a need, program, and project, usually by an organization or government. Generally, fund is used when an organization uses its internal reserves to satisfy its necessity for cash, while the term funding is used when an organization acquires capital from external sources. Sources of funding include credit, venture capital, donations, grants, savings, subsidies, and taxes.

**Table 5.2: Fund Requirement by Year**

|    |   |        |
|----|---|--------|
| 1. | Total number existing schemes (NMIP 2014) | 1299   |
| 2. | Total Hhs served by existing schemes      | 46637  |
| 3. | Total population served by the scheme     | 201472 |
| 4. | Total Hhs of Gulmi (76+1)                 | 64887  |
| 5. | Average Household size: 4.32              | 4.32   |
| 6. | Per HHs cost (Rs 10000 X 4.32)            | 43200  |

Source: DWASHCC 2069

**Table 5.3: Trend of Investment in WASH sector since last 3 year (need to work out further )**

| Year         | FY 2069/70 | FY 2070/71 | FY 2071/72 | Total |
|--------------|------------|------------|------------|-------|
| VDC(50 VDCs) | 3715758    | 4282547    | 6037516    |       |
| GON/DDC      |            |            |            |       |
| WSSDO        |            |            |            |       |
| I/NGOs       |            |            |            |       |
| Fund Board   |            |            |            |       |
| GWS          |            |            |            |       |
| Other        |            |            |            |       |
| Grand Total  |            |            |            |       |

Source: DWASHCC 2069

**Table 5.4: Available Fund, projection and resource Gap analysis (in '000) (need to work out further)**

| Year   | FY 2071/72 | FY 2072/73 | FY 2073/74 | FY 20774/75 | FY 2075/76 | Total     |
|--|------------|------------|------------|-------------|------------|-----------|
| M/VDCs(48+1)   | 14035821   | 7886365    | 3555000    | 2963000     | 3756000    |           |
| GON/DDC  | 9162500    | 8662500    | 8662500    | 8662500     | 8662500    |           |
| WSSDO  |            |            |            |             |            |           |
| I/NGOs   |            |            |            |             |            |           |
| Fund Board   |            |            |            |             |            |           |
| GWS  |            |            |            |             |            |           |
| Other  |            |            |            |             |            |           |
| Total projected fund available in district             |            |            |            |             |            |           |
| Projected fund requirement (with 10% inflation)Rs'000) | 253,702    | 448,206    | 467,657    | 385,034     | 292,205    | 1,846,804 |
| Resource Gap   |            |            |            |             |            |           |

## 5.2 Institutions active in WASH in the District

Currently, WSSDO, DDC, DTO, NGO Network, WDO, DEO and DHO include the public sector institutions active in the WASH sector in the district. The Fund Board and RWSSP-WN are the other institutions supporting the sector actively in the district. RWSSP-WN funded by the Government of Finland, which works through DDC, has been active since past 4 years. The major activities carried and respective coverage are in the district is presented table below.



**Table 5.6: Actors Active in Development of WASH Sector in the District**

| SN | Name of Agency               | Nos. of Working VDCs     | Major Activities     |
|----|------------------------------|--------------------------|----------------------|
| 1  | DDC/DTO (including RWSSP-WN) | All VDCs of the District | Water and sanitation |
| 2  | WSSSDO                       | All VDCs of the District | Water and sanitation |
| 4  | DEO                          |                          |                      |
| 5  | DHO                          |                          |                      |
| 7  | Fund-Board                   |                          |                      |

Source:

Analysis of above table reveals that agencies like DDC/DTO, WSSSDO, DEO, DHO, and Fund Board are the active actors in WASH sectors. Out of them DEO involves schools wash, DHO health and hygiene and fund-board in WASH. Similarly, DDC/DTO (including RWSSP-WN) involve in H&S, DWS, Water Quality Improvement,

**Table 5.7: Description of Annual WASH Budget of district level partner**

In NPR '000

| Working partner with WASH in district level          | FY 2068-69   |            | FY 2069-70   |            | FY 2070-71   |            | FY 2071-72   |            | Total budget |
|--|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|
|  | Water Supply | Sanitation | Water Supply | Sanitation | Water Supply | Sanitation | Water Supply | Sanitation |              |
| District Water Supply and sanitation Division Office |              |            |              |            |              |            |              |            |              |
| DDC Gulmi  |              |            |              |            |              |            |              |            |              |
| DDC and RWSSP- WN                                    | 0            | 0          | 0            | 0          | 28000        | 6000       | 36000        | 2000       |              |
| Nepal Red Cross Society                              |              |            |              |            |              |            |              |            |              |
| VDCs   |              |            |              |            |              |            |              |            |              |
| <b>Total</b>   |              |            |              |            |              |            |              |            |              |

Source

### 5.3 Fund Sources and Gap

Out of the total fund requirement, minimum 5 percent of the fund is expected from VDC/Municipality and from the users including both cash and kind. Of the remaining .....% of the fund is expected from DDC, .....% of the fund is expected from WSSSDO and ..... percent of the required fund is tapped from support agency like DEO, DHO and other actors engaged in the sector-Fund Board, Red Cross, and other national and international institutions. Details of information have been shown in the Table below.

**Table 5.8: Expected Contributions from the Sector Actors**

| SN | Source of budget                 | Budget by Year (,000Rs) |      |      |      |      | Total |
|----|----------------------------------|-------------------------|------|------|------|------|-------|
|    |                                  | 2016                    | 2017 | 2018 | 2019 | 2020 |       |
| 1. | Community kind                   |                         |      |      |      |      |       |
| 2. | DDC contribution                 |                         |      |      |      |      |       |
| 3. | VDC contribution                 |                         |      |      |      |      |       |
| 4. | Water Supply and Sanitation      |                         |      |      |      |      |       |
| 5. | Sub-Division Office contribution |                         |      |      |      |      |       |
| 6. | Support agencies                 |                         |      |      |      |      |       |
|    | <b>Grand total</b>               |                         |      |      |      |      |       |

Source:

**Table 5.9: Budget Calculation as expected**

| SN | Source of budget                       | Budget by Year (,000Rs) |      |      |      |      | Total |
|----|--|-------------------------|------|------|------|------|-------|
|    |  | 2016                    | 2017 | 2018 | 2019 | 2020 |       |
|    | Support agency (required fund)         |                         |      |      |      |      |       |
|    | Support agency (existing budget trend) |                         |      |      |      |      |       |
|    | Deficit Amount                         |                         |      |      |      |      |       |
|    | Deficit Percentage                     |                         |      |      |      |      |       |

**Source:**

#### 5.4 Endorsement and Advocacy

The DSWASHP at the district level, as an official district strategy has already been endorsed by the District Council, therefore, is an official policy document to be followed by all the WASH stakeholders in the District. The plan is to be enforced by the District Council in order to become official district policy document. The DWASHCC will soon firstly organize a dissemination workshop in participation of multi-stakeholders and representatives of political parties as the first step of advocacy of the plan for VDC secretaries and VDC-WASH Coordination Committee (VWASHCC) members in all district VDCs. It will be followed through the workshops and coordination meetings in every six months in order to review the progress, to identify the problems and support needs. Finally, the concerned WASH stakeholders will be reminded to adhere the DSWASHP strictly. Moreover, there is a significant gap between available fund and required amount for entire implementation of planned activities therefore; DWASHCC should make its utmost efforts to tap the fund especially from the government at the centre and in convincing the multi/bi donors active in the sector for their support in the regard too.

## **CHAPTER – 6: IMPLEMENTATION AND MONITORING PLAN AND INSTITUTIONAL SETUP**

### **6.1 Implementation and Monitoring Plan of WASH**

Implementation is the realization of an application, or execution of a plan, idea, model, design, specification, standard, algorithm, or policy. It is the process of putting a decision or plan into effect; execution, while monitoring involves observation or checking off the progress or quality of (something) over a period of time; keep under systematic review. It is the regular observation and recording of activities taking place in a project or programme. It is a process of routinely gathering information on all aspects of the project. To monitor, it is observation; – systematic and purposeful observation.

#### **6.1.1 Implementation Plan**

DWASHCC is responsible at the district level to ensure the plan concerned to WASH stakeholders implement the activities laid in DSWASHP in the spirit of the Local Self Governance Act and the Principles underlined in the Water Supply and Sanitation Strategy (2004).

#### **6.1.2 Monitoring of the Plan**

Monitoring system will be established at the district and VDC level. The existing District Core Team within DWASHCC will be responsible for periodic monitoring of the WASH activities undertaken in the district. At the VDC, VWASHCC will form a Monitoring Team, the members for which will be decided by V/MWASHCC. Such a team may compose of member/s of V/MWASHCC, school teacher, political representatives, people listened by community etc. The team on behalf of the DWASHCC and V/MWASHCC will be responsible to oversee the monitoring of the planned activities. For monitoring purpose, a set of objective output and process indicators will be developed. The Monitoring Team will carry out the monitoring of the activities in participation of the users, user committee/s and agency engaged in facilitating the activities.

#### **6.1.3 Review and Updating of the Plan**

Review of the plan will be undertaken at the end of each year both at the VDC and district level and it will be the responsibility of the DWASHCC. Level of the progress achieved against the planned activities and problems/constraints faced will be the main aspects to analyze and recommend required adjustment in planned activities and update the plan accordingly however, but not compromising with target of achieving universal coverage of water supply by 2017.

### **6.2 Institutional Set up and Resource Management**

Institutions are "stable, valued, recurring patterns of behavior." As structures or mechanisms of social order, they govern the behavior of a set of individuals within a given community. Institutional set up involves an organization, establishment, foundation, society, or the like,

devoted to the promotion that acts innovation processes.

#### **6.2.1 DWASHCC, District Core Team and District WASH Unit and V/M-WASHCC**

DWASHCC will lead the forum for planning, programming, coordination, monitoring and advocacy of WASH sector in the district and the V/MWASHCC at the VDC level. The composition of office bearers in DWASHCC and V/MWASHCC will be as guided by Sanitation and Hygiene Master Plan 2011. Roles and responsibilities of the coordination committees in implementation of the plan are as follows:

##### **DWASHCC**

Prepare strategic plan on DSWASHP and get it endorsed by District Council.

- Coordinate; provide support and assistance to VDCs and Municipality in preparing procedures and formulating of their V/MWASH plans.
- Carryout performance monitoring of the WASH activities being implemented in VDCs and Municipality.
- Establish and manage the WASH Fund at the district level.
- Help extend fund support to VDCs and Municipality from the District Wash Fund and encourage them for the universal coverage of water supply in their areas.
- Organize workshop and meetings on regular basis to review the WASH programme going in VDC and Municipality.
- Organize meeting/workshop to review and update DSWASHP activities in every six months.
- Prepare implementation and monitoring plan upon common consensus of the stakeholders for undertaking WASHP activities.
- Help create conducive environment to encourage private sector for their involvement in WASH sector.
- Establish District WASH Resource Centre and update its database.
- Monitor and supervise on regular basis the expenditure incurred from WASH funds established at the district, VDC and Municipality level
- Get support required for implementation of WASH Plan in friendly relation with stakeholders of civic society and external support agencies.
- Maintain coordination and cooperation with regional and national WASHCC for mutual exchange of information WASH
- Asses and analyze resource available with stakeholders to utilize in implementing the WASH plan.

##### **District Core Team and WASH Unit**

A Core Team under DWASHCC responsible to see programme management was formed in the district and a Unit responsible for entire WASH programme under the supervision of the Core Team was established under DDC. Similarly, a WASH Unit under V/M-WASHCC may also be established at VDC and Municipality level depending upon the need. Capacity enhancement of the Coordination Committees at the district and VDC level will be strengthened in fulfilling their expected roles and responsibilities effectively and efficiently. Accordingly, the VWASHCC and MWASHCC – the instrumental entities that are in frontline in implementation of WASH

programme need to be institutionally strengthened equally. Various activities such as training, workshop, seminars, study visits etc., to the office bearers of entities are planned in the direction.

#### **V/M-WASHCC**

- Prepare and update the V/M-WASH Plan together with budget, plan of action and responsibilities and get it endorsed from the Village Council
- Analyse WASH issues and strategies to overcome the implementation barriers
- Form a monitoring team monitor and provide technical backstopping services to the communities and schools.
- Organize review workshop and other events during implementation and monitoring of their plans.
- Maintain coordination and cooperation with DWASHCC.
- Look for the actors and fund/human resources to expedite effective implementation of planned activities.
- Organize meetings in each 3 months to assess the progress status in the respective of the VDCs/municipality

#### **6.2.3 Sanitation Basket Fund**

WASH Fund at the district level will be established where in the fund earmarked for hygiene and sanitation activities of all the agency and actors engaged in development of WASH sector will be deposited. Such a fund will be managed as per the procedures formulated by DWASHCC. As of now, existing policy and corresponding rules are yet to be tuned in this direction however, the programme will be implemented by bringing the respective programs of sector actors under single umbrella till such fund is established. Similar mechanism will be followed in case of VDC/ municipality and at the school level too. The Book keeping and record keeping of the funds at the district, VDC and school level will be maintained as per the given financial rules of the government. The progress achieved and expenses made will be made public to ensure financial transparency in the programme.

A huge gap of resources between the fund required and projected fund resources at the disposal of the sector actors at the district level exists, therefore mobilization of resources either from the national and international sources is an warranted imperative besides efficient use of available resources. At the fore, actors involved in the development of the WASH sector but more that of the DWASH-CC members will play a significant role in marketing the DSWASHP for tapping the fund resources both from the national and international sources. Equally, crucial role of the V/MWASHCC is seen in channeling the available fund for the WASH sector as well as tapping the fund resources from the district and national levels.

#### **6.2.4 Roles and Responsibilities of Sector Actors**

Roles and responsibilities of the relevant actors in implementation of the plan are followed in a succeeding way.

##### **DDC**

- Instruct local bodies to implement WASH policies and plan and monitor implementation status of the planned activities.
- Allocate at least 3 percent of total capital budget for WASH activities and take the lead role in raising fund resources to implement the planned activities of DSWASHP.
- Construct and help to construct public/community toilets
- Allocate budget for hygiene and sanitation activities and for cash reward to ODF VDCs and Municipality.

##### **WSSDO**

- Ensure coordination of all the WASH activities in the district
- Extend/provide technical support to DDC, Red CROSS and other agencies engaged in WASH activities
- Prepare a roster of resource persons and facilitators and mobilize them in need
- Prepare and implement Stand Alone Sanitation activities in the manner that overcome the persisting weaknesses at present
- Extend support and assistance to achieve ODF in VDCs and municipality by mobilizing schools and communities under DACAW Programme.
- Extend support and assistance to various agencies in implementing programme like Eco-san and POU in translating the concept of ODF VDC and municipality
- Coordinate and cooperate the DWASHCC and V/MWASHCC in operation of WASH programme.
- Take lead role in declaring the district a “Open Defecation Free Zone”

##### **DEO**

- Take lead role in establishing water supply and CGD friendly latrines in the schools in the district.
- Mobilize schools to celebrate Baishakh as Sanitation Month and to observe National Sanitation Week
- Ensure that schools are equipped with CGD friendly water supply and sanitation facilities and help school in achieving ODF in catchment areas of schools under SSHE and SLTS Approach.
- Establish Sanitation Desk in Resource Centers of schools

##### **DHO**

- Establish Sanitation Desk in all Health Post, Sub-health Post, Health Centers and Hospitals.
- Maximize mobilization of FCHVs and CMs network in awareness raising drive on hygiene and sanitation at household level in the district

**DTO**

- Extend support and assistance to run post ODF in VDCs and municipality by mobilizing schools and communities under DDC Programme
- Integrate latrine construction and promotion activities in water supply and sanitation projects to contribute in achieving ODF VDCs
- Extend/provide technical support to DDC, Red CROSS and other agencies engaged in WASH activities
- Extend support in implementing WASH activities in the district
- Provide help and support DWASHCC and V/MWASHCC in operation of WASH programme.

**WDO**

- Integrate hygiene and sanitation activities in income generating activities of women groups.

**VDC/Municipality**

- Prepare and update the V/MWASH Plan together with budget, plan of action and responsibilities and get it endorsed from the Village/Municipal Council
- Allocate at least 5 percent of total capital budget for WASH activities
- Analyze WASH issues and strategies to overcome the implementation barriers
- Manage construction of toilets in schools
- Promote latrine construction poor dominated and landless settlements in coordination with NGO and WASH stakeholders
- Drive hygiene and sanitation activities as integral part of ODF movement in respective areas
- Establish and update database on WASH
- Establish public and community toilets in needy locations and ensure smooth operation of these toilets
- Maintain coordination and cooperation with DWASHCC
- Look for the actors and fund/human resources to expedite effective implementation of planned activities
- Organize meetings in each 3 month to assess the progress status in the respective of the VDCs/municipality

**NGO Network**

- Ensure coordination with different NGOs active in the district
- Implement awareness raising activities through the medium of NGO Networks.
- Provide support and assistance to fortify the communication and political commitment.

**Political Parties**

- Mobilize the ancillaries in the VDC and Municipality as committed at the district level
- Make effort in finding resources and their mobilization for contributing to implementation of planned WASH activities
- Include hygiene and sanitation messages in the publicity materials
- Participate in the monitoring of WASH activities

**Mass Media**

- Either observes singly or in-group the latrine use, WASH programme activities, ODF movement going-on in the district and include them in the various forum of mass media.

**Donor Agencies**

- Provide financial, material, technical and human resource supports for implementation of planned WASH activities approved by the District/VDC/Municipal Councils



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## **ANNEXE**



### Annex 1: Distribution of Population and HHs according to the VDCs/Municipalities

| S.No. | Name of the VDCs/Municipality | Household | Total Population | Percentage | Male  | Percentage | Female | Percentage |
|-------|-------------------------------|-----------|------------------|------------|-------|------------|--------|------------|
| 1     | Aaglung                       | 701       | 3,634            | 1.30       | 1,668 | 1.38       | 1,966  | 1.24       |
| 2     | AmarArbathok                  | 476       | 1,943            | 0.69       | 818   | 0.68       | 1,125  | 0.71       |
| 3     | Amarpur                       | 840       | 3,598            | 1.28       | 1,578 | 1.30       | 2,020  | 1.27       |
| 4     | Apchaur                       | 915       | 3,900            | 1.39       | 1,639 | 1.35       | 2,261  | 1.42       |
| 5     | Arbani                        | 583       | 2,783            | 0.99       | 1,208 | 1.00       | 1,575  | 0.99       |
| 6     | Arje                          | 586       | 2,657            | 0.95       | 1,134 | 0.94       | 1,523  | 0.96       |
| 7     | Arkhang                       | 1,439     | 6,076            | 2.17       | 2,564 | 2.12       | 3,512  | 2.21       |
| 8     | Arlangkot                     | 310       | 1,511            | 0.54       | 677   | 0.56       | 834    | 0.52       |
| 9     | Aslewa                        | 455       | 2,110            | 0.75       | 947   | 0.78       | 1,163  | 0.73       |
| 10    | Badagaun                      | 769       | 2,978            | 1.06       | 1,213 | 1.00       | 1,765  | 1.11       |
| 11    | Bajhketeria                   | 1,729     | 8,052            | 2.87       | 3,473 | 2.87       | 4,579  | 2.88       |
| 12    | Baletaksar                    | 784       | 3,540            | 1.26       | 1,565 | 1.29       | 1,975  | 1.24       |
| 13    | Balithum                      | 1,092     | 4,210            | 1.50       | 1,830 | 1.51       | 2,380  | 1.50       |
| 14    | Bamgha                        | 859       | 3,902            | 1.39       | 1,630 | 1.35       | 2,272  | 1.43       |
| 15    | Bharse                        | 855       | 3,475            | 1.24       | 1,463 | 1.21       | 2,012  | 1.26       |
| 16    | Bhurtung                      | 420       | 1,621            | 0.58       | 637   | 0.53       | 984    | 0.62       |
| 17    | Birbas                        | 864       | 3,847            | 1.37       | 1,666 | 1.38       | 2,181  | 1.37       |
| 18    | Bhanbhane                     | 1,088     | 4,577            | 1.63       | 1,860 | 1.54       | 2,717  | 1.71       |
| 19    | Bisukharka                    | 537       | 2,413            | 0.86       | 1,042 | 0.86       | 1,371  | 0.86       |
| 20    | Chhapahile                    | 660       | 3,252            | 1.16       | 1,484 | 1.23       | 1,768  | 1.11       |
| 21    | Dalamchaur                    | 667       | 2,779            | 0.99       | 1,159 | 0.96       | 1,620  | 1.02       |
| 22    | DhurkotNayagaun               | 1,253     | 5,181            | 1.85       | 2,188 | 1.81       | 2,993  | 1.88       |
| 23    | Darbardevisthan               | 601       | 3,160            | 1.13       | 1,391 | 1.15       | 1,769  | 1.11       |
| 24    | Darling                       | 663       | 2,827            | 1.01       | 1,158 | 0.96       | 1,669  | 1.05       |
| 25    | Daungha                       | 768       | 3,588            | 1.28       | 1,563 | 1.29       | 2,025  | 1.27       |
| 26    | DhurkotBastu                  | 698       | 2,832            | 1.01       | 1,190 | 0.98       | 1,642  | 1.03       |
| 27    | Digam                         | 740       | 3,178            | 1.13       | 1,394 | 1.15       | 1,784  | 1.12       |

| S.No. | Name of the VDCs/Municipality | Household | Total Population | Percentage | Male  | Percentage | Female | Percentage |
|-------|-------------------------------|-----------|------------------|------------|-------|------------|--------|------------|
| 28    | Dirbung                       | 1,015     | 4,282            | 1.53       | 1,775 | 1.47       | 2,507  | 1.58       |
| 29    | Dohali                        | 720       | 3,133            | 1.12       | 1,314 | 1.09       | 1,819  | 1.14       |
| 30    | Foksing                       | 1,182     | 4,503            | 1.61       | 1,880 | 1.55       | 2,623  | 1.65       |
| 31    | Gaidakot                      | 451       | 2,082            | 0.74       | 899   | 0.74       | 1,183  | 0.74       |
| 32    | Ghamir                        | 852       | 4,124            | 1.47       | 1,774 | 1.47       | 2,350  | 1.48       |
| 33    | Gwagha                        | 611       | 2,652            | 0.95       | 1,071 | 0.89       | 1,581  | 0.99       |
| 34    | Gwadi                         | 580       | 2,648            | 0.95       | 1,164 | 0.96       | 1,484  | 0.93       |
| 35    | Hadahade                      | 643       | 2,563            | 0.91       | 1,052 | 0.87       | 1,511  | 0.95       |
| 36    | Hansara                       | 504       | 2,329            | 0.83       | 989   | 0.82       | 1,340  | 0.84       |
| 37    | Harmichaur                    | 642       | 2,586            | 0.92       | 1,036 | 0.86       | 1,550  | 0.97       |
| 38    | Hastichaur                    | 883       | 3,771            | 1.35       | 1,582 | 1.31       | 2,189  | 1.38       |
| 39    | Hawangdi                      | 626       | 2,877            | 1.03       | 1,234 | 1.02       | 1,643  | 1.03       |
| 40    | Hunga                         | 1,045     | 4,171            | 1.49       | 1,697 | 1.40       | 2,474  | 1.55       |
| 41    | IsmaRajasthal                 | 436       | 1,869            | 0.67       | 798   | 0.66       | 1,071  | 0.67       |
| 42    | Jaisithok                     | 527       | 2,426            | 0.87       | 1,101 | 0.91       | 1,325  | 0.83       |
| 43    | Jayakhani                     | 444       | 1,829            | 0.65       | 797   | 0.66       | 1,032  | 0.65       |
| 44    | Juvung                        | 1,552     | 6,901            | 2.46       | 2,875 | 2.38       | 4,026  | 2.53       |
| 45    | Juniya                        | 389       | 2,058            | 0.73       | 917   | 0.76       | 1,141  | 0.72       |
| 46    | Johang                        | 858       | 3,284            | 1.17       | 1,324 | 1.09       | 1,960  | 1.23       |
| 47    | Khadgakot                     | 805       | 3,562            | 1.27       | 1,522 | 1.26       | 2,040  | 1.28       |
| 48    | Kharjyang                     | 627       | 2,688            | 0.96       | 1,165 | 0.96       | 1,523  | 0.96       |
| 49    | Kurgha                        | 270       | 1,294            | 0.46       | 568   | 0.47       | 726    | 0.46       |
| 50    | Limgha                        | 1,098     | 4,342            | 1.55       | 1,854 | 1.53       | 2,488  | 1.56       |
| 51    | Malagiri                      | 674       | 2,847            | 1.02       | 1,174 | 0.97       | 1,673  | 1.05       |
| 52    | Marbhung                      | 947       | 3,871            | 1.38       | 1,576 | 1.30       | 2,295  | 1.44       |
| 53    | Musikot                       | 837       | 3,834            | 1.37       | 1,664 | 1.38       | 2,170  | 1.36       |
| 54    | MyalPokhari                   | 934       | 3,834            | 1.37       | 1,609 | 1.33       | 2,225  | 1.40       |
| 55    | Neta                          | 708       | 3,112            | 1.11       | 1,317 | 1.09       | 1,795  | 1.13       |

| S.No. | Name of the VDCs/Municipality | Household    | Total Population | Percentage | Male           | Percentage | Female         | Percentage |
|-------|-------------------------------|--------------|------------------|------------|----------------|------------|----------------|------------|
| 56    | Pallikot                      | 708          | 3,039            | 1.08       | 1,299          | 1.07       | 1,740          | 1.09       |
| 57    | Paralmi                       | 450          | 2,187            | 0.78       | 972            | 0.80       | 1,215          | 0.76       |
| 58    | PaudhiAmarayee                | 883          | 3,821            | 1.36       | 1,713          | 1.42       | 2,108          | 1.32       |
| 59    | Pipaldhara                    | 857          | 4,033            | 1.44       | 1,730          | 1.43       | 2,303          | 1.45       |
| 60    | PurkotDaha                    | 507          | 2,198            | 0.78       | 941            | 0.78       | 1,257          | 0.79       |
| 61    | Purtighat                     | 696          | 3,296            | 1.18       | 1,448          | 1.20       | 1,848          | 1.16       |
| 62    | Reemuwa                       | 633          | 2,862            | 1.02       | 1,178          | 0.97       | 1,684          | 1.06       |
| 63    | Rupakot                       | 695          | 2,895            | 1.03       | 1,182          | 0.98       | 1,713          | 1.08       |
| 64    | Ruru                          | 745          | 3,622            | 1.29       | 1,603          | 1.32       | 2,019          | 1.27       |
| 65    | Shantipur                     | 761          | 3,136            | 1.12       | 1,388          | 1.15       | 1,748          | 1.10       |
| 66    | Resunga NP                    | 892          | 3,833            | 1.37       | 1,629          | 1.35       | 2,204          | 1.38       |
| 67    | Sirseni                       | 437          | 2,044            | 0.73       | 904            | 0.75       | 1,140          | 0.72       |
| 68    | Thanpati                      | 562          | 2,419            | 0.86       | 1,003          | 0.83       | 1,416          | 0.89       |
| 69    | Thulolumpek                   | 878          | 3,518            | 1.26       | 1,446          | 1.20       | 2,072          | 1.30       |
| 70    | Turang                        | 875          | 3,306            | 1.18       | 1,500          | 1.24       | 1,806          | 1.13       |
| 71    | Wagla                         | 910          | 3,865            | 1.38       | 1,710          | 1.41       | 2,155          | 1.35       |
| 72    | Wamitaksar                    | 1,223        | 5,163            | 1.84       | 2,162          | 1.79       | 3,001          | 1.89       |
| 73    | Harrachaur                    | 783          | 3,329            | 1.19       | 1,436          | 1.19       | 1,893          | 1.19       |
| 74    | Harewa                        | 4,175        | 14,845           | 5.30       | 7,015          | 5.80       | 7,830          | 4.92       |
| 75    | DhurkotRajasthal              | 677          | 2,585            | 0.92       | 1,060          | 0.88       | 1,525          | 0.96       |
| 76    | Hardineta                     | 1,231        | 6,103            | 2.18       | 2,751          | 2.27       | 3,352          | 2.11       |
| 77    | Institutional, school         | 34           | 1,155            | 0.41       | 1,016          | 0.84       | 139            | 0.09       |
|       | <b>TOTAL</b>                  | <b>64921</b> | <b>280,160</b>   | 100.00     | <b>120,995</b> | 100.00     | <b>159,165</b> | 100.00     |

Source: CBS, 2011

**Annex 2: Water Supply facilities within VDCs and Municipalities in Gulmi district**

| S.No. | Name of the VDCs/Municipality | Total HHs | Total Population | HH drinking water from Piped Supply-tap | HH drinking water from Protected Kuwa / pandhero-dhara | HH drinking water from Un Protected Kuwa / pandhero-stone tap | HH drinking water from Point Source | HH drinking water from stream / river | HH drinking water from canal | HH drinking water from Pond | HH drinking water from RWH | Total HHs having access to improved DWS facilities | % of Total HHs having access to DWS | % of HHs Unserviced |
|-------|-------------------------------|-----------|------------------|---|--|---|-------------------------------------|---------------------------------------|------------------------------|-----------------------------|----------------------------|--|-------------------------------------|---------------------|
| 1     | Aaglung                       | 715       | 3634             | 524                                     | 0  | 95  | 143                                 | 17                                    | 30                           | 0                           | 0                          | 524  | 73%                                 | 27%                 |
| 2     | AmarArbathok                  | 486       | 1,943            | 485                                     | 0  | 1   | 0                                   | 0                                     | 0                            | 0                           | 0                          | 485  | 100%                                | 0%                  |
| 3     | Amarpur                       | 943       | 3,598            | 820                                     | 96   | 21  | 4                                   | 2                                     | 0                            | 0                           | 0                          | 916  | 97%                                 | 3%                  |
| 4     | Apchaur                       | 822       | 3900             | 775                                     | 2  | 3   | 39                                  | 0                                     | 3                            | 0                           | 0                          | 777  | 95%                                 | 5%                  |
| 5     | Arbani                        | 583       | 2783             | 30                                      | 2  | 5   | 4                                   | 9                                     | 0                            | 0                           | 0                          | 32   | 5%                                  | 95%                 |
| 6     | Arje                          | 639       | 2657             | 623                                     | 3  | 10  | 3                                   | 0                                     | 0                            | 0                           | 0                          | 626  | 98%                                 | 2%                  |
| 7     | Arkhang                       | 332       | 1511             | 309                                     | 3  | 10  | 7                                   | 3                                     | 0                            | 0                           | 0                          | 312  | 94%                                 | 6%                  |
| 8     | Arlangkot                     | 419       | 2110             | 58                                      | 7  | 4   | 12                                  | 7                                     | 24                           | 24                          | 2                          | 65   | 16%                                 | 84%                 |
| 9     | Aslewa                        | 769       | 2978             | 745                                     | 0  | 5   | 13                                  | 2                                     | 0                            | 0                           | 0                          | 745  | 97%                                 | 3%                  |
| 10    | Badagaun                      | 1720      | 8052             | 170                                     | 220  | 125   | 137                                 | 29                                    | 0                            | 0                           | 49                         | 390  | 23%                                 | 77%                 |
| 11    | Bajhketeria                   | 850       | 3540             | 761                                     | 5  | 7   | 1                                   | 10                                    | 0                            | 0                           | 0                          | 766  | 90%                                 | 10%                 |
| 12    | Baletaksar                    | 1092      | 4210             | 35                                      | 1  | 140   | 25                                  | 94                                    | 11                           | 0                           | 473                        | 36   | 3%                                  | 97%                 |
| 13    | Balithum                      | 851       | 3902             | 482                                     | 0  | 0   | 0                                   | 369                                   | 0                            | 0                           | 0                          | 482  | 57%                                 | 43%                 |
| 14    | Bamgha                        | 849       | 3475             | 81                                      | 41   | 20  | 88                                  | 17                                    | 7                            | 2                           | 150                        | 122  | 14%                                 | 86%                 |
| 15    | Bharse                        | 365       | 1621             | 275                                     | 0  | 0   | 48                                  | 0                                     | 0                            | 18                          | 0                          | 275  | 75%                                 | 25%                 |
| 16    | Bhurtung                      | 816       | 3,847            | 758                                     | 7  | 29  | 11                                  | 0                                     | 11                           | 0                           | 0                          | 765  | 94%                                 | 6%                  |
| 17    | Birbas                        | 1088      | 4,577            | 55                                      | 18   | 2   | 75                                  | 0                                     | 0                            | 0                           | 0                          | 73   | 7%                                  | 93%                 |
| 18    | Bhanbhane                     | 740       | 3178             | 593                                     | 33   | 56  | 58                                  | 0                                     | 0                            | 0                           | 0                          | 626  | 85%                                 | 15%                 |
| 19    | Bisukharka                    | 482       | 2413             | 436                                     | 39   | 0   | 6                                   | 0                                     | 0                            | 0                           | 0                          | 475  | 99%                                 | 1%                  |
| 20    | Chhapahile                    | 660       | 3252             | 594                                     | 0  | 0   | 55                                  | 6                                     | 3                            | 0                           | 0                          | 594  | 90%                                 | 10%                 |
| 21    | Dalamchaur                    | 685       | 2779             | 30                                      | 0  | 55  | 52                                  | 31                                    | 0                            | 0                           | 0                          | 30   | 4%                                  | 96%                 |
| 22    | DhurkotNayagaun               | 1047      | 4,282            | 865                                     | 29   | 0   | 56                                  | 0                                     | 0                            | 0                           | 97                         | 894  | 85%                                 | 15%                 |
| 23    | Darbardevasthan               | 1273      | 5181             | 105                                     | 1  | 0   | 19                                  | 2                                     | 0                            | 0                           | 0                          | 106  | 8%                                  | 92%                 |
| 24    | Darling                       | 640       | 3160             | 535                                     | 0  | 17  | 51                                  | 57                                    | 0                            | 0                           | 0                          | 535  | 84%                                 | 16%                 |
| 25    | Daungha                       | 701       | 2827             | 21                                      | 0  | 105   | 21                                  | 5                                     | 0                            | 0                           | 449                        | 21   | 3%                                  | 97%                 |
| 26    | DhurkotBastu                  | 708       | 3178             | 40                                      | 93   | 11  | 18                                  | 3                                     | 0                            | 0                           | 0                          | 133  | 19%                                 | 81%                 |
| 27    | Digam                         | 1182      | 4503             | 90                                      | 6  | 5   | 24                                  | 12                                    | 0                            | 84                          | 121                        | 96   | 8%                                  | 92%                 |

| S.No. | Name of the VDCs/Municipality | Total HHs | Total Population | HH drinking water from Piped Supply-tap | HH drinking water from Protected Kuwa pandhero-dhara / | HH drinking water from Un Protected Kuwa pandhero-stone tap | HH drinking water from Point Source | HH drinking water from stream / river | HH drinking water from canal | HH drinking water from Pond | HH drinking water from RWH | Total HHs having access to improved DWS facilities | % of Total HHs having access to DWS | % of HHs Unserviced |
|-------|-------------------------------|-----------|------------------|---|--|---|-------------------------------------|---------------------------------------|------------------------------|-----------------------------|----------------------------|--|-------------------------------------|---------------------|
| 28    | Dirbung                       | 409       | 2082             | 107                                     | 0  | 50  | 195                                 | 34                                    | 0                            | 0                           | 23                         | 107  | 26%                                 | 74%                 |
| 29    | Dohali                        | 893       | 4124             | 796                                     | 29   | 53  | 0                                   | 4                                     | 0                            | 0                           | 54                         | 825  | 92%                                 | 8%                  |
| 30    | Foksing                       | 533       | 2,648            | 526                                     | 6  | 0   | 0                                   | 0                                     | 0                            | 0                           | 0                          | 532  | 100%                                | 0%                  |
| 31    | Gaidakot                      | 650       | 2,563            | 56                                      | 2  | 0   | 32                                  | 0                                     | 0                            | 1                           | 19                         | 58   | 9%                                  | 91%                 |
| 32    | Ghamir                        | 788       | 3,588            | 488                                     | 23   | 0   | 34                                  | 2                                     | 6                            | 15                          | 0                          | 511  | 65%                                 | 35%                 |
| 33    | Gwagha                        | 483       | 2,329            | 472                                     | 0  | 0   | 11                                  | 0                                     | 0                            | 0                           | 0                          | 472  | 98%                                 | 2%                  |
| 34    | Gwadi                         | 642       | 2586             | 515                                     | 60   | 62  | 0                                   | 0                                     | 0                            | 0                           | 0                          | 575  | 90%                                 | 10%                 |
| 35    | Hadahade                      | 914       | 3,771            | 548                                     | 51   | 73  | 124                                 | 79                                    | 0                            | 0                           | 0                          | 599  | 66%                                 | 34%                 |
| 36    | Hansara                       | 565       | 2,877            | 465                                     | 9  | 30  | 26                                  | 35                                    | 1                            | 0                           | 0                          | 474  | 84%                                 | 16%                 |
| 37    | Harmichaur                    | 527       | 2,426            | 469                                     | 0  | 24  | 5                                   | 29                                    | 0                            | 3                           | 0                          | 469  | 89%                                 | 11%                 |
| 38    | Hastichaur                    | 1641      | 1829             | 156                                     | 90   | 1   | 223                                 | 15                                    | 0                            | 0                           | 112                        | 246  | 15%                                 | 85%                 |
| 39    | Hawangdi                      | 394       | 2,058            | 360                                     | 0  | 24  | 69                                  | 20                                    | 0                            | 0                           | 0                          | 360  | 91%                                 | 9%                  |
| 40    | Hunga                         | 942       | 3,284            | 706                                     | 0  | 1   | 40                                  | 18                                    | 0                            | 0                           | 164                        | 706  | 75%                                 | 25%                 |
| 41    | IsmaRajasthal                 | 816       | 3,562            | 703                                     | 14   | 55  | 24                                  | 0                                     | 0                            | 0                           | 0                          | 717  | 88%                                 | 12%                 |
| 42    | Jaisithok                     | 604       | 2688             | 80                                      | 34   | 0   | 209                                 | 0                                     | 0                            | 0                           | 0                          | 114  | 19%                                 | 81%                 |
| 43    | Jayakhani                     | 246       | 1294             | 217                                     | 0  | 6   | 3                                   | 0                                     | 21                           | 0                           | 0                          | 217  | 88%                                 | 12%                 |
| 44    | Juvung                        | 915       | 3871             | 622                                     | 10   | 209   | 33                                  | 40                                    | 0                            | 0                           | 0                          | 632  | 69%                                 | 31%                 |
| 45    | Juniya                        | 616       | 2847             | 587                                     | 0  | 0   | 1                                   | 0                                     | 0                            | 22                          | 0                          | 587  | 95%                                 | 5%                  |
| 46    | Johang                        | 1052      | 4342             | 955                                     | 0  | 21  | 36                                  | 12                                    | 28                           | 0                           | 0                          | 955  | 91%                                 | 9%                  |
| 47    | Khadgakot                     | 817       | 3834             | 744                                     | 0  | 0   | 40                                  | 0                                     | 33                           | 0                           | 0                          | 744  | 91%                                 | 9%                  |
| 48    | Kharjyang                     | 953       | 3834             | 831                                     | 96   | 0   | 24                                  | 2                                     | 0                            | 0                           | 0                          | 927  | 97%                                 | 3%                  |
| 49    | Kurgha                        | 657       | 3112             | 600                                     | 8  | 5   | 28                                  | 25                                    | 25                           | 8                           | 0                          | 608  | 93%                                 | 7%                  |
| 50    | Limgha                        | 665       | 3039             | 659                                     | 4  | 0   | 0                                   | 0                                     | 2                            | 0                           | 0                          | 663  | 100%                                | 0%                  |
| 51    | Malagiri                      | 486       | 2187             | 409                                     | 7  | 0   | 70                                  | 0                                     | 0                            | 0                           | 0                          | 416  | 86%                                 | 14%                 |
| 52    | Marbhung                      | 745       | 3821             | 507                                     | 108  | 21  | 31                                  | 14                                    | 18                           | 17                          | 0                          | 615  | 83%                                 | 17%                 |
| 53    | Musikot                       | 857       | 4033             | 65                                      | 169  | 71  | 162                                 | 45                                    | 9                            | 0                           | 24                         | 234  | 27%                                 | 73%                 |
| 54    | MyalPokhari                   | 544       | 3039             | 403                                     | 0  | 200   | 127                                 | 12                                    | 0                            | 0                           | 0                          | 403  | 74%                                 | 26%                 |
| 55    | Neta                          | 759       | 2187             | 671                                     | 2  | 16  | 46                                  | 22                                    | 0                            | 0                           | 4                          | 673  | 89%                                 | 11%                 |



| S.No. | Name of the VDCs/Municipality | Total HHs | Total Population | HH drinking water from Piped Supply-tap | HH drinking water from Protected Kuwa / pandhero-dhara | HH drinking water from Un Protected Kuwa / pandhero-stone tap | HH drinking water from Point Source | HH drinking water from stream / river | HH drinking water from canal | HH drinking water from Pond | HH drinking water from RWH | Total HHs having access to improved DWS facilities | % of Total HHs having access to DWS | % of HHs Unserve d |
|-------|-------------------------------|-----------|------------------|---|--|---|-------------------------------------|---------------------------------------|------------------------------|-----------------------------|----------------------------|--|-------------------------------------|--------------------|
| 56    | Pallikot                      | 531       | 3821             | 320                                     | 7  | 3   | 10                                  | 9                                     | 0                            | 0                           | 133                        | 327  | 62%                                 | 38%                |
| 57    | Paralmi                       | 705       | 4033             | 624                                     | 15   | 12  | 32                                  | 21                                    | 1                            | 0                           | 0                          | 639  | 91%                                 | 9%                 |
| 58    | PaudhiAmarayee                | 746       | 2198             | 70                                      | 0  | 127   | 69                                  | 0                                     | 0                            | 0                           | 0                          | 70   | 9%                                  | 91%                |
| 59    | Pipaldhara                    | 795       | 3296             | 70                                      | 0  | 0   | 481                                 | 0                                     | 0                            | 0                           | 0                          | 70   | 9%                                  | 91%                |
| 60    | PurkotDaha                    | 892       | 2862             | 814                                     | 12   | 27  | 1                                   | 11                                    | 0                            | 0                           | 0                          | 826  | 93%                                 | 7%                 |
| 61    | Purtighat                     | 361       | 2895             | 336                                     | 0  | 10  | 18                                  | 0                                     | 0                            | 0                           | 0                          | 336  | 93%                                 | 7%                 |
| 62    | Reemuwa                       | 601       | 3622             | 532                                     | 0  | 0   | 61                                  | 5                                     | 13                           | 0                           | 0                          | 532  | 89%                                 | 11%                |
| 63    | Rupakot                       | 811       | 3518             | 611                                     | 41   | 0   | 50                                  | 82                                    | 0                            | 0                           | 7                          | 652  | 80%                                 | 20%                |
| 64    | Ruru                          | 875       | 3306             | 829                                     | 22   | 8   | 17                                  | 0                                     | 0                            | 0                           | 0                          | 851  | 97%                                 | 3%                 |
| 65    | Shantipur                     | 750       | 3865             | 653                                     | 0  | 0   | 68                                  | 0                                     | 0                            | 5                           | 114                        | 653  | 87%                                 | 13%                |
| 66    | Resunga NP                    | 7448      | 28736            | 7448                                    | 0  | 0   | 0                                   | 0                                     | 0                            | 0                           | 0                          | 7448   | 100%                                | 0%                 |
| 67    | Sirseni                       | 850       | 3339             | 720                                     | 25   | 27  | 16                                  | 62                                    | 0                            | 0                           | 0                          | 745  | 88%                                 | 12%                |
| 68    | Thanpati                      | 593       | 2585             | 543                                     | 45   | 0   | 69                                  | 1                                     | 0                            | 0                           | 0                          | 588  | 99%                                 | 1%                 |
| 69    | Thulolumpek                   | 1282      | 6103             | 1067                                    | 0  | 82  | 511                                 | 22                                    | 0                            | 0                           | 0                          | 1067   | 83%                                 | 17%                |
| 70    | Turang                        | 856       | 3922             | 210                                     | 0  | 2   | 25                                  | 0                                     | 9                            | 0                           | 0                          | 210  | 25%                                 | 75%                |
| 71    | Wagla                         | 780       | 3529             | 60                                      | 53   | 77  | 254                                 | 1                                     | 0                            | 0                           | 16                         | 113  | 14%                                 | 86%                |
| 72    | Wamitaksar                    | 1198      | 6359             | 1101                                    | 53   | 0   | 83                                  | 0                                     | 0                            | 0                           | 0                          | 1154   | 96%                                 | 4%                 |
| 73    | Harrachaur                    | 434       | 1829             | 400                                     | 9  | 11  | 11                                  | 0                                     | 0                            | 3                           | 0                          | 409  | 94%                                 | 6%                 |
| 74    | Harewa                        | 411       | 1869             | 406                                     | 0  | 0   | 5                                   | 0                                     | 0                            | 0                           | 0                          | 406  | 99%                                 | 1%                 |
| 75    | DhurkotRajasthal              | 735       | 3133             | 50                                      | 30   | 129   | 25                                  | 52                                    | 0                            | 0                           | 48                         | 80   | 11%                                 | 89%                |
| 76    | Hardineta                     | 1102      | 4171             | 96                                      | 0  | 0   | 95                                  | 0                                     | 0                            | 0                           | 0                          | 96   | 9%                                  | 91%                |
|       | <b>TOTAL</b>                  |           | <b>280,160</b>   |   |  |   |                                     |                                       |                              |                             |                            | <b>42612</b>                                       |                                     |                    |

### Annex 3: HHs level sanitation status

| S.N | VDC              | Dalit HH | Adibasi/ Janjati HH | Muslim HH | Others | Total | Permanent Toilet | Temporary Toilet | No Toilet | Improved Cooking Stove | % of HHs not having Permanent Toilets | % of Dalit HHs | Score |
|-----|------------------|----------|---------------------|-----------|--------|-------|------------------|------------------|-----------|------------------------|---------------------------------------|----------------|-------|
| 1   | Aaglung          | 147      | 20                  | 0         | 545    | 712   | 712              | 0                | 0         | 712                    | 0%                                    | 21%            | 2.1   |
| 2   | AmarArbathok     | 65       | 223                 | 0         | 205    | 493   | 493              | 0                | 0         | 493                    | 0%                                    | 13%            | 1.3   |
| 3   | Amarpur          | 144      | 281                 | 0         | 498    | 923   | 923              | 0                | 0         | 422                    | 0%                                    | 16%            | 1.6   |
| 4   | Apchaur          | 232      | 26                  | 0         | 574    | 832   | 819              | 0                | 13        | 0                      | 2%                                    | 28%            | 2.8   |
| 5   | Arbani           | 122      | 213                 | 0         | 238    | 573   | 573              | 0                | 0         | 99                     | 0%                                    | 21%            | 2.1   |
| 6   | Arje             | 156      | 6                   | 0         | 409    | 571   | 522              | 0                | 49        | 481                    | 9%                                    | 27%            | 2.7   |
| 7   | Arkhang          | 24       | 80                  | 0         | 214    | 318   | 318              | 0                | 0         | 318                    | 0%                                    | 8%             | 0.8   |
| 8   | Arlangkot        | 100      | 11                  | 0         | 323    | 434   | 433              | 0                | 1         | 137                    | 0%                                    | 23%            | 2.3   |
| 9   | Aslewa           | 40       | 84                  | 0         | 553    | 677   | 676              | 0                | 1         | 8                      | 0%                                    | 6%             | 0.6   |
| 10  | Badagaun         | 313      | 638                 | 0         | 797    | 1748  | 1747             | 0                | 1         | 1128                   | 0%                                    | 18%            | 1.8   |
| 11  | Bajhketeria      | 232      | 130                 | 0         | 464    | 826   | 821              | 0                | 5         | 821                    | 3%                                    | 28%            | 2.8   |
| 12  | Baletaksar       | 110      | 230                 | 0         | 713    | 1053  | 1053             | 0                | 0         | 864                    | 0%                                    | 10%            | 1.0   |
| 13  | Balithum         | 97       | 545                 | 0         | 212    | 854   | 854              | 0                | 0         | 766                    | 0%                                    | 11%            | 1.1   |
| 14  | Bamgha           | 89       | 313                 | 0         | 436    | 838   | 838              | 0                | 0         | 393                    | 0%                                    | 11%            | 1.1   |
| 15  | Bharse           | 62       | 305                 | 0         | 3      | 370   | 370              | 0                | 0         | 370                    | 0%                                    | 17%            | 1.7   |
| 16  | Bhurtung         | 119      | 227                 | 0         | 476    | 822   | 822              | 0                | 0         | 109                    | 0%                                    | 14%            | 1.4   |
| 17  | Birbas           | 125      | 538                 | 0         | 452    | 1115  | 1115             | 0                | 0         | 1114                   | 0%                                    | 11%            | 1.1   |
| 18  | Bisukharka       | 219      | 106                 | 0         | 179    | 504   | 610              | 0                | -106      | 221                    | 21%                                   | 43%            | 4.3   |
| 19  | Chhapahile       | 172      | 64                  | 0         | 448    | 684   | 684              | 0                | 0         | 612                    | 0%                                    | 25%            | 2.5   |
| 20  | Darlamchaur      | 175      | 103                 | 0         | 403    | 681   | 681              | 0                | 0         | 0                      | 0%                                    | 26%            | 2.6   |
| 21  | Darbar Devasthan | 160      | 71                  | 0         | 1079   | 1310  | 1309             | 0                | 1         | 0                      | 0%                                    | 12%            | 1.2   |
| 22  | Darling          | 236      | 248                 | 0         |        | 166   | 650              | 0                | 650       | 0                      | 0%                                    | 36%            | 3.6   |
| 23  | Daungha          | 171      | 268                 | 0         | 259    | 698   | 698              | 0                | 0         | 388                    | 0%                                    | 24%            | 2.4   |
| 24  | DhurkotBastu     | 194      | 40                  | 0         | 486    | 720   | 720              | 0                | 0         | 0                      | 0%                                    | 27%            | 2.7   |
| 25  | Bhanbhane        | 125      | 126                 | 0         | 497    | 748   | 748              | 0                | 0         | 748                    | 0%                                    | 17%            | 1.7   |

| S.N | VDC              | Dalit HH | Adibasi/ Janjati HH | Muslim HH | Others | Total | Permanent Toilet | Temporary Toilet | No Toilet | Improved Cooking Stove | % of HHs not having Permanent Toilets | % of Dalit HHs | Score |
|-----|------------------|----------|---------------------|-----------|--------|-------|------------------|------------------|-----------|------------------------|---------------------------------------|----------------|-------|
| 26  | Dhurkot Nayagaun | 194      | 273                 | 0         | 567    | 1034  | 1017             | 0                | 17        | 0                      | 2%                                    | 19%            | 1.9   |
| 27  | DhurkotRajasthal | 238      | 63                  | 0         | 437    | 738   | 738              | 0                | 0         | 0                      | 0%                                    | 32%            | 3.2   |
| 28  | Digam            | 0        | 0                   | 0         | 0      | 0     | 0                | 0                | 0         | 0                      | 0%                                    | 0%             | 0.0   |
| 29  | Dirbung          | 115      | 114                 | 0         | 184    | 413   | 413              | 0                | 0         | 413                    | 0%                                    | 28%            | 2.8   |
| 30  | Dohali           | 101      | 210                 | 0         | 536    | 847   | 843              | 0                | 4         | 224                    | 0%                                    | 12%            | 1.2   |
| 31  | Foksing          | 105      | 350                 | 0         | 79     | 534   | 534              | 0                | 0         | 131                    | 0%                                    | 20%            | 2.0   |
| 32  | Gaudakot         | 57       | 243                 | 1         | 354    | 655   | 655              | 0                | 0         | 655                    | 0%                                    | 9%             | 0.9   |
| 33  | Ghamir           | 157      | 90                  | 0         | 504    | 751   | 751              | 0                | 0         | 751                    | 0%                                    | 21%            | 2.1   |
| 34  | Gwagha           | 145      | 205                 | 0         | 127    | 477   | 477              | 0                | 0         | 477                    | 0%                                    | 30%            | 3.0   |
| 35  | Gwadi            | 162      | 109                 | 0         | 295    | 566   | 566              | 0                | 0         | 566                    | 0%                                    | 29%            | 2.9   |
| 36  | Hadahade         | 161      | 457                 | 0         | 279    | 897   | 891              | 0                | 6         | 891                    | 1%                                    | 18%            | 1.8   |
| 37  | Hansara          | 110      | 113                 | 0         | 406    | 629   | 629              | 0                | 0         | 0                      | 0%                                    | 17%            | 1.7   |
| 38  | Hardineta        | 158      | 298                 | 0         | 734    | 1190  | 1190             | 0                | 0         | 1190                   | 0%                                    | 13%            | 1.3   |
| 39  | Harewa           | 112      | 196                 | 0         | 124    | 432   | 432              | 0                | 0         | 432                    | 0%                                    | 26%            | 2.6   |
| 40  | Harmichaur       | 78       | 114                 | 0         | 316    | 508   | 510              | 0                | -2        | 426                    | 0%                                    | 15%            | 1.5   |
| 41  | Harrachaur       | 48       | 65                  | 0         | 331    | 444   | 444              | 0                | 0         | 310                    | 0%                                    | 11%            | 1.1   |
| 42  | Hastichaur       | 291      | 415                 | 0         | 27     | 733   | 733              | 0                | 0         | 362                    | 0%                                    | 40%            | 4.0   |
| 43  | Hawangdi         | 143      | 165                 | 0         | 109    | 417   | 417              | 0                | 0         | 417                    | 0%                                    | 34%            | 3.4   |
| 44  | Hunga            | 112      | 222                 | 4         | 605    | 943   | 943              | 0                | 0         | 943                    | 0%                                    | 12%            | 1.2   |
| 45  | IsmaRajasthal    | 148      | 113                 | 0         | 573    | 834   | 834              | 0                | 0         | 600                    | 0%                                    | 18%            | 1.8   |
| 46  | Jaisithok        | 181      | 83                  | 0         | 367    | 631   | 620              | 0                | 11        | 0                      | 2%                                    | 29%            | 2.9   |
| 47  | Jayakhani        | 50       | 194                 | 0         | 7      | 251   | 251              | 0                | 0         | 251                    | 0%                                    | 20%            | 2.0   |
| 48  | Johang           | 196      | 155                 | 0         | 625    | 976   | 936              | 0                | 40        | 0                      | 6%                                    | 20%            | 2.0   |
| 49  | Juniya           | 221      | 50                  | 0         | 337    | 608   | 608              | 0                | 0         | 323                    | 0%                                    | 36%            | 3.6   |
| 50  | Juvung           | 159      | 398                 | 0         | 377    | 934   | 934              | 0                | 0         | 129                    | 0%                                    | 17%            | 1.7   |
| 51  | Khadgakot        | 163      | 415                 | 0         | 255    | 833   | 833              | 0                | 0         | 133                    | 0%                                    | 20%            | 2.0   |
| 52  | Kharjyang        | 274      | 446                 | 0         | 290    | 1010  | 977              | 0                | 33        | 686                    | 3%                                    | 27%            | 2.7   |
| 53  | Kurgha           | 123      | 124                 | 0         | 415    | 662   | 662              | 0                | 0         | 35                     | 0%                                    | 19%            | 1.9   |
| 54  | Limgha           | 194      | 208                 | 0         | 268    | 670   | 670              | 0                | 0         | 23                     | 0%                                    | 29%            | 2.9   |

| S.N | VDC            | Dalit HH     | Adibasi/ Janjati HH | Muslim HH | Others       | Total        | Permanent Toilet | Temporary Toilet | No Toilet  | Improved Cooking Stove | % of HHs not having Permanent Toilets | % of Dalit HHs | Score |
|-----|----------------|--------------|---------------------|-----------|--------------|--------------|------------------|------------------|------------|------------------------|---------------------------------------|----------------|-------|
| 55  | Malagiri       | 127          | 0                   | 0         | 387          | 514          | 514              | 0                | 0          | 514                    | 0%                                    | 25%            | 2.5   |
| 56  | Marbhung       | 224          | 88                  | 0         | 444          | 756          | 746              | 0                | 10         | 505                    | 1%                                    | 30%            | 3.0   |
| 57  | Musikot        | 243          | 160                 | 0         | 486          | 889          | 889              | 0                | 0          | 234                    | 0%                                    | 27%            | 2.7   |
| 58  | Malyapokhari   | 113          | 24                  | 0         | 436          | 573          | 573              | 0                | 0          | 573                    | 0%                                    | 20%            | 2.0   |
| 59  | Neta           | 240          | 276                 | 0         | 192          | 708          | 708              | 0                | 0          | 286                    | 0%                                    | 34%            | 3.4   |
| 60  | Pallikot       | 83           | 403                 | 0         | 154          | 640          | 640              | 0                | 0          | 637                    | 0%                                    | 13%            | 1.3   |
| 61  | Paralmi        | 0            | 0                   | 0         | 0            | 0            | 0                | 0                | 0          | 0                      | 0%                                    | 0%             | 0.0   |
| 62  | PaudhiAmarayee | 181          | 142                 | 0         | 406          | 729          | 729              | 0                | 0          | 209                    | 0%                                    | 25%            | 2.5   |
| 63  | Pipaldhara     | 126          | 108                 | 0         | 232          | 466          | 466              | 0                | 0          | 272                    | 0%                                    | 27%            | 2.7   |
| 64  | PurkotDaha     | 219          | 126                 | 0         | 601          | 946          | 946              | 0                | 0          | 935                    | 0%                                    | 23%            | 2.3   |
| 65  | Purtighat      | 45           | 287                 | 1         | 73           | 406          | 400              | 0                | 6          | 356                    | 1%                                    | 11%            | 1.1   |
| 66  | Reemuwa        | 96           | 304                 | 0         | 167          | 567          | 567              | 0                | 0          | 439                    | 0%                                    | 17%            | 1.7   |
| 67  | Rupakot        | 169          | 132                 | 0         | 510          | 811          | 811              | 0                | 0          | 0                      | 0%                                    | 21%            | 2.1   |
| 68  | Ruru           | 129          | 186                 | 2         | 551          | 868          | 868              | 0                | 0          | 795                    | 0%                                    | 15%            | 1.5   |
| 69  | Shantipur      | 178          | 207                 | 26        | 330          | 741          | 741              | 0                | 0          | 741                    | 0%                                    | 24%            | 2.4   |
| 70  | Resunga NP     | 1007         | 1278                | 3         | 3528         | 5816         | 5816             | 0                | 0          | 1805                   | 0%                                    | 17%            | 1.7   |
| 71  | Sirseni        | 201          | 78                  | 0         | 509          | 788          | 744              | 0                | 44         | 676                    | 6%                                    | 26%            | 2.6   |
| 72  | Thanpati       | 229          | 122                 | 0         | 301          | 652          | 642              | 0                | 10         | 652                    | 2%                                    | 35%            | 3.5   |
| 73  | Thulolumpek    | 433          | 891                 | 0         | 641          | 1965         | 1965             | 0                | 0          | 1374                   | 1%                                    | 14%            | 1.4   |
| 74  | Turang         | 210          | 275                 | 0         | 445          | 930          | 930              | 0                | 0          | 633                    | 0%                                    | 23%            | 2.3   |
| 75  | Wagla          | 226          | 60                  | 0         | 546          | 832          | 832              | 0                | 0          | 832                    | 0%                                    | 27%            | 2.7   |
| 76  | Wamitaksar     | 198          | 449                 | 0         | 627          | 1274         | 1274             | 0                | 0          | 65                     | 0%                                    | 16%            | 1.6   |
|     | <b>TOTAL</b>   | <b>12502</b> | <b>16380</b>        | <b>37</b> | <b>31557</b> | <b>60158</b> | <b>60498</b>     |                  | <b>794</b> | <b>33105</b>           |                                       |                |       |

**ANNEX 4: Budget allocation for wash activities according to VDCs**

| S.No. | VDC Name        | Investments of VDCs on WASH Sector in FY2069/70 | Investments of VDCs on WASH Sector in FY2070/71 | Investments of VDCs on WASH Sector in FY2071/72 | Investments of Plan of VDCs on WASH Sector in FY2072/73 | Investments of Plan of VDCs on WASH Sector in FY2073/74 | Investments of Plan of VDCs on WASH Sector in FY2074/75 |
|-------|-----------------|---|---|---|---|---|---|
| 1     | Aaglung         | 50000   | 668000  | 353000  | 200000  | 0   | 0   |
| 2     | AmarArbathok    | 87000   | 170400  | 120000  | 0   | 0   | 0   |
| 3     | Amarpur         | 200000  | 600000  | 240000  | 150000  | 450000  | 300000  |
| 4     | Apchaur         | 75000   | 168000  | 190000  | 50000   | 60000   | 40000   |
| 5     | Arbani          | 327000  | 291500  | 441000  | 170000  | 150000  | 200000  |
| 6     | Arje            | 0   | 50000   | 100000  | 522900  | 70000   | 0   |
| 7     | Arkawang        | 0   | 0   | 0   | 0   | 200000  | 280000  |
| 8     | Arlangkot       | 115000  | 320000  | 148500  | 176000  | 171000  | 125000  |
| 9     | Aslewa          | 80000   | 117500  | 190000  | 115000  | 150000  | 205000  |
| 10    | Badagaun        | 65000   | 861800  | 1155000   | 50000   | 125000  | 150000  |
| 11    | Bajhketeria     | 0   | 0   | 0   | 0   | 180000  | 550000  |
| 12    | Baletaksar      | 225000  | 296000  | 85000   | 240000  | 250000  | 275000  |
| 13    | Balithum        | 100000  | 100000  | 163000  | 130000  | 190000  | 250000  |
| 14    | Bamgha          | 170000  | 200000  | 100000  | 150000  | 190000  | 250000  |
| 15    | Bharse          | 50000   | 100000  | 150000  | 125000  | 100000  | 125000  |
| 16    | Bhurtung        | 55000   | 280000  | 203000  | 55000   | 65000   | 80000   |
| 17    | Birbas          | 344000  | 178850  | 179510  | 196800  | 195000  | 216000  |
| 18    | Bisukharka      | 232650  | 265000  | 110000  | 140000  | 0   | 0   |
| 19    | Chhapahile      | 0   | 40000   | 0   | 100000  | 60000   | 120000  |
| 20    | Dalamchaur      | 0   | 0   | 37500   | 30000   | 35000   | 30000   |
| 21    | Darbardevisthan | 387350  | 437350  | 184590  | 311100  | 350000  | 400000  |
| 22    | Darling         | 675000  | 75000   | 70000   | 100000  | 0   | 0   |
| 23    | Daungha         | 66500   | 225000  | 80000   | 0   | 0   | 0   |
| 24    | DhurkotBastu    | 255000  | 237000  | 466000  | 90000   | 50000   | 200000  |
| 25    | Bhanbhane       | 411000  | 470520  | 141000  | 158000  | 170000  | 195000  |
| 26    | DhurkotNayagaun | 235000  | 295000  | 135000  | 165000  | 180000  | 225000  |

| S.No. | VDC Name         | Investments of VDCs on WASH Sector in FY2069/70 | Investments of VDCs on WASH Sector in FY2070/71 | Investments of VDCs on WASH Sector in FY2071/72 | Investments of Plan of VDCs on WASH Sector in FY2072/73 | Investments of Plan of VDCs on WASH Sector in FY2073/74 | Investments of Plan of VDCs on WASH Sector in FY2074/75 |
|-------|------------------|---|---|---|---|---|---|
| 27    | DhurkotRajasthal | 300000  | 150000  | 110000  | 175000  | 165000  | 165000  |
| 28    | Digam            | 0   | 0   | 0   | 0   | 0   | 0   |
| 29    | Dirbung          | 73925   | 100000  | 264000  | 200000  | 180000  | 170000  |
| 30    | Dohali           | 250000  | 700000  | 400000  | 165000  | 170000  | 250000  |
| 31    | Foksing          | 100000  | 100000  | 150000  | 0   | 0   | 0   |
| 32    | Gaidakot         | 435000  | 310000  | 216000  | 500000  | 700000  | 600000  |
| 33    | Ghamir           | 50000   | 100000  | 150000  | 250000  | 250000  | 200000  |
| 34    | Gwagha           | 600000  | 751000  | 390000  | 50000   | 0   | 0   |
| 35    | Gwadi            | 260000  | 515000  | 170000  | 250000  | 350000  | 450000  |
| 36    | Hadahade         | 0   | 0   | 0   | 100000  | 150000  | 150000  |
| 37    | Hansara          | 197000  | 235000  | 170000  | 230000  | 195000  | 150000  |
| 38    | Hardineta        | 70000   | 100000  | 0   | 247000  | 500000  | 800000  |
| 39    | Harewa           | 300000  | 124200  | 140000  | 58000   | 70000   | 150000  |
| 40    | Harmichaur       | 372797  | 400797  | 309616  | 90000   | 170000  | 160000  |
| 41    | Harrachaur       | 249486  | 288960  | 316452  | 134000  | 125000  | 125000  |
| 42    | Hastichaur       | 30000   | 900000  | 45500   | 45000   | 200000  | 350000  |
| 43    | Hawangdi         | 0   | 0   | 0   | 0   | 0   | 0   |
| 44    | Hunga            | 100000  | 550000  | 150000  | 355000  | 505000  | 490000  |
| 45    | IsmaRajasthal    | 125000  | 100000  | 50000   | 150000  | 200000  | 175000  |
| 46    | Jaisithok        | 300000  | 165000  | 95000   | 60000   | 250000  | 175000  |
| 47    | Jayakhani        | 160000  | 90000   | 120000  | 50000   | 100000  | 130000  |
| 48    | Johang           | 0   | 100000  | 100000  | 157000  | 100000  | 100000  |
| 49    | Juniya           | 250000  | 275000  | 75000   | 200000  | 300000  | 325000  |
| 50    | Juvung           | 124000  | 601000  | 295000  | 325000  | 300000  | 400000  |
| 51    | Khadgakot        | 138000  | 200000  | 250000  | 0   | 200000  | 275000  |
| 52    | Kharjyang        | 0   | 177735  | 395735  | 110000  | 70000   | 90000   |
| 53    | Kurgha           | 150000  | 126500  | 0   | 165000  | 0   | 0   |

| S.No. | VDC Name       | Investments of VDCs on WASH Sector in FY2069/70 | Investments of VDCs on WASH Sector in FY2070/71 | Investments of VDCs on WASH Sector in FY2071/72 | Investments of Plan of VDCs on WASH Sector in FY2072/73 | Investments of Plan of VDCs on WASH Sector in FY2073/74 | Investments of Plan of VDCs on WASH Sector in FY2074/75 |
|-------|----------------|---|---|---|---|---|---|
| 54    | Limgha         | 250000  | 150000  | 50000   | 100000  | 100000  | 100000  |
| 55    | Malagiri       | 130000  | 100000  | 493000  | 75000   | 80000   | 85000   |
| 56    | Marbhung       | 150000  | 313500  | 249000  | 100000  | 275000  | 245500  |
| 57    | Musikot        | 161000  | 78000   | 67165   | 0   | 150000  | 150000  |
| 58    | MyalPokhari    | 357746  | 417400  | 356000  | 300000  | 500000  | 900000  |
| 59    | Neta           | 300000  | 425000  | 150000  | 150000  | 175000  | 250000  |
| 60    | Pallikot       | 73580   | 53580   | 84610   | 110610  | 0   | 0   |
| 61    | Paralmi        | 0   | 0   | 0   | 0   | 0   | 0   |
| 62    | PaudhiAmarayee | 351780  | 205000  | 275000  | 95000   | 110000  | 118000  |
| 63    | Pipaldhara     | 287900  | 147000  | 65544   | 66000   | 150000  | 150000  |
| 64    | PurkotDaha     | 50000   | 70000   | 20000   | 100000  | 150000  | 200000  |
| 65    | Purtighat      | 215000  | 180000  | 100000  | 80000   | 200000  | 300000  |
| 66    | Reemuwa        | 179187  | 200000  | 280000  | 232000  | 250000  | 250000  |
| 67    | Rupakot        | 516600  | 128300  | 307500  | 180000  | 200000  | 270000  |
| 68    | Ruru           | 335400  | 178335  | 244200  | 200000  | 300000  | 300000  |
| 69    | Shantipur      | 110000  | 197200  | 132700  | 303280  | 700000  | 400000  |
| 70    | Resunga NP     | 558891  | 1649192   | 3725000   | 5450085   | 0   | 0   |
| 71    | Sirseni        | 448000  | 470520  | 140000  | 158000  | 170000  | 195000  |
| 72    | Thanpati       | 285000  | 175000  | 184000  | 172000  | 200000  | 200000  |
| 73    | Thulolumpek    | 0   | 238000  | 160000  | 650000  | 850000  | 230000  |
| 74    | Turang         | 100000  | 249000  | 30000   | 0   | 150000  | 200000  |
| 75    | Wagla          | 55000   | 45000   | 40000   | 0   | 0   | 0   |
| 76    | Wamitaksar     | 223000  | 150000  | 333572  | 200000  | 125000  | 150000  |
|       | <b>Total</b>   | <b>13978792</b>                                 | <b>19427139</b>                                 | <b>16891694</b>                                 | <b>16212775</b>   | <b>13476000</b>   | <b>14789500</b>   |

## ANNEX 5: Investment Mapping of Drinking Water Supply Projects Water Supply and Sanitation Division Office, Gulmi

Amount in '000

| Name of Scheme/Program              | Benefitted VDCs              | Benefitted Pop | Fy 2070/71 | Fy 2069/70 | Fy 2068/69 | Total Investment 3 years |
|-------------------------------------|------------------------------|----------------|------------|------------|------------|--------------------------|
| Nisti - II and III DWS              | Ghamir, Arje, Isma           | 15046          | 4705.92    | 7312.00    | 7839.00    | 19856.92                 |
| Rote Malya giri DWS                 | Malyagiri                    | 2849           | 0.00       | 0.00       | 753.00     | 753.00                   |
| Dunai Paudi Amrai DWS               | Paudi Amrai                  | 2646           | 783.88     | 2340.00    | 1499.00    | 4622.88                  |
| WAMI DWS A.SU.B.                    | WAMI                         | 5494           | 1769.60    | 2364.00    | 2379.00    | 6512.60                  |
| Nayagaun Pipaldhara DWS             | Nayagaun                     | 1858           | 2123.60    | 2648.00    | 2499.00    | 7270.60                  |
| Jaisithok, Dhurkot Rajasthal DWS    | Jaisithok, Dhurkot Rajasthal | 2187           | 2262.10    | 3093.00    | 2646.00    | 8001.10                  |
| Arlangkot                           | Arlangkot                    | 425            | 0.00       | 0.00       | 369.00     | 369.00                   |
| Bhuwachidi, Digam khorande Ruru DWS | Digam, Ruru                  | 325            | 0.00       | 0.00       | 589.00     | 589.00                   |
| Tallo Lupsi Myalphokhari DWS        | Myalphokhari                 | 1008           | 4.00       | 19.00      | 35.00      | 58.00                    |
| Jubhung, Myalphokhari               | Jubfung                      | 492            | 0.00       | 0.00       | 745.00     | 745.00                   |
| Thanapati DWS                       | Thanapati                    | 2522           | 2696.03    | 1355.00    | 1426.00    | 5477.03                  |
| Bagalekhola Bhujel khark DWS        | Tamghas                      | 1002           | 1772.30    | 989.00     | 1754.00    | 4515.30                  |
| Dharapani DWS                       | Bastu                        | 245            | 0.00       | 0.00       | 591.00     | 591.00                   |
| Phoksing DWS                        | Phoksing                     | 3886           | 786.03     | 1559.00    | 499.00     | 2844.03                  |
| Tamghas Brith DWS                   | Tamghas                      | 14140          | 2154.79    | 2132.00    | 3507.00    | 7793.79                  |
| Khanigaun DWS                       | Tamghas                      | 3139           | 580.50     | 1397.00    | 953.00     | 2930.50                  |
| Khola khatare, Darlamchaur DWS      | Drrlamchaur                  |                | 0.00       | 0.00       | 72.00      | 72.00                    |
| Palukha, Jukanya DWS                | Hastichaur                   | 486            | 711.10     | 463.00     | 300.00     | 1474.10                  |
| Attarkadha DWS                      | Arkhale                      | 86             | 0.00       | 0.00       | 388.00     | 388.00                   |
| Tamghas 9 Neta DWS                  | Tamghas                      | 723            | 1608.82    | 2824.00    | 1967.00    | 6399.82                  |
| Ridi Baza DWS                       | Ruru                         | 2336           | 970.34     | 1052.00    | 95.00      | 2117.34                  |
| Malik DWS                           | Darbar Devisthan             | 300            | 831.81     | 1882.00    | 279.00     | 2992.81                  |
| Jukekhola DWS                       | Hunga                        | 288            | 0.00       | 0.00       | 524.00     | 524.00                   |
| Sota Khola DWS                      | Tamghas                      | 360            | 786.36     | 792.00     | 960.00     | 2538.36                  |
| Jorpani Lift DWS                    | Simichaur                    | 3152           | 2732.73    | 1555.00    | 991.00     | 5278.73                  |
| Rotepani DWS                        | Darbar Devisthan             | 722            |            | 1248.00    | 547.00     | 1795.00                  |
| Pipaldhara DWS                      | Pipaldhara                   | 0.00           | 0.00       | 0.00       | 49.00      | 49.00                    |
| Bhaikmare Bharji DWS                | Bhanbhane                    | 902            | 0.00       | 204.00     | 823.00     | 1027.00                  |
| Bisukharka DWS                      | Bisukharka                   | 676            | 791.48     | 19.00      | 61.00      | 871.48                   |
| Chandrakot DWS                      | Shantipur                    | 1424           | 881.92     | 19.00      | 62.00      | 962.92                   |
| Chidigairi Bhupanpani DWS           | Arkhale                      | 392            | 1278.64    | 250.00     | 599.00     | 2127.64                  |



| Name of Scheme/Program            | Benefitted VDCs  | Benefitted Pop | Fy 2070/71       | Fy 2069/70       | Fy 2068/69       | Total Investment 3 years |
|-----------------------------------|------------------|----------------|------------------|------------------|------------------|--------------------------|
| Simaltari Kisantari Marbhung DWS  | Marbhung         | 917            | 3429.61          | 1943.00          | 999.00           | 6371.61                  |
| Ghamir Bhanuphokhara Marbhung     | Ghamir           | 211            | 0.00             | 1114.00          | 47.00            | 1161.00                  |
| Nahali DWS                        | Arje             | 816            | 490.72           | 200.00           | 62.00            | 752.72                   |
| Akibang Saltari Marbhung          | Marbhung         | 1532           | 491.74           | 19.00            | 61.00            | 571.74                   |
| Nangekhola Arje, Amarpur          | Arje, Amarpur    | 696            | 1233.45          | 1236.00          | 276.00           | 2745.45                  |
| Digam DWS                         | Digam, Baletaxar | 1074           | 1482.31          | 0.00             | 0.00             | 1482.31                  |
| Sringa DWS                        | Digam            |                | 0.00             | 364.00           | 160.00           | 524.00                   |
| Dibrung Lift DWS                  | Dibrung          | 510            | 968.40           | 19.00            | 46.00            | 1033.40                  |
| Rolkhola Kepokhari DWS            | Arkhole          | 265            | 0.00             | 1088.00          | 457.00           | 1545.00                  |
| Kerungkhola mauribhir             | Wami             | 2418           | 1244.20          | 840.00           | 278.00           | 2362.20                  |
| Gairakharka DWS                   | Bhanbhane        | 294            | 319.00           | 1684.00          | 269.00           | 2272.00                  |
| Charakhola DWS                    | Tamghas          | 2253           | 689.90           | 683.00           | 289.00           | 1661.90                  |
| Pandherithari Resunga DWS         | Tamghas          | 2500           | 1489.10          | 19.00            | 50.00            | 1558.10                  |
| Daugha Lift DWS                   | Daugha           | 3060           | 1564.30          | 0.00             | 0.00             | 1564.30                  |
| Rimuwa DWS                        | Rimuwa           | 688            | 1280.70          | 0.00             | 0.00             | 1280.70                  |
| Baletaxar DWS                     | Baletaxar        | 2190           | 812.90           | 0.00             | 0.00             | 812.90                   |
| Bhurtung DWS                      | Bhurtung         | 1889           | 88.10            | 0.00             | 0.00             | 88.10                    |
| Sringa Rupsw DWS                  | Digam            | 381            | 654.10           | 0.00             | 0.00             | 654.10                   |
| Hunga DWS                         | Hunga            | 2282           | 174.60           | 0.00             | 0.00             | 174.60                   |
| Majhem Lift DWS                   | Tamghas          |                | 142.30           | 0.00             | 0.00             | 142.30                   |
| Khare Parlami DWS                 | Paralmi          | 1689           | 292.80           | 0.00             | 0.00             | 292.80                   |
| Dundurkhola harpukot DWS          | Hastichaur       | 1578           | 173.50           | 0.00             | 0.00             | 173.50                   |
| Andherikhola doholi Lift DWS      | Doholi           | 2520           | 82.40            | 0.00             | 0.00             | 82.40                    |
| Chiuripata Dharampokhari DWS      | Baletaxar        | 281            | 1465.90          | 0.00             | 0.00             | 1465.90                  |
| Chinekhola DWS                    | Hadhade          | 948            | 868.80           | 0.00             | 0.00             | 868.80                   |
| Ratakandhe and Bhaktikot DWS      | Baletaxar        | 684            | 286.60           | 0.00             | 0.00             | 286.60                   |
| Johanh and Hasara                 | Johang, Hacsara  | 3208           | 315.10           | 0.00             | 0.00             | 315.10                   |
| Khanikhola DWS                    | Aglung           | 480            | 829.90           | 0.00             | 0.00             | 829.90                   |
| Holaban Okhareni Kaule DWS        | Banjhkateri      | 782            | 1294.90          | 0.00             | 0.00             | 1294.90                  |
| Johang 6,7,8,9 DWSS               | Johang           | 250            | 158.60           | 0.00             | 0.00             | 158.60                   |
| Maintenance for completed schemes | Different        |                | 987.80           | 807.00           | 889.00           | 2683.80                  |
| Survey Programme                  | Different        |                | 399.50           |                  | 242.00           | 641.50                   |
| <b>TOTAL</b>                      |                  |                | <b>53,943.18</b> | <b>45,532.00</b> | <b>39,925.00</b> | <b>139,400.18</b>        |

### ANNEX 6: Name and no. of water borne disease incidences 2071-72

| S.N | Name of VDC                | Typhoid<br>(Enteric Fever) |     | Acute gastro<br>enteritis |    | Amoebic<br>Dysentery |     | Bacillary<br>Dysentery/Shigellosis |    | Presumed<br>non-infectious<br>diarrhea, |    | Cholera |   | Intestinal<br>Worms |     | Jaundice<br>and<br>Infective<br>Hepatitis |   | Hepatitis<br>A |   | Total |
|-----|----------------------------|----------------------------|-----|---------------------------|----|----------------------|-----|------------------------------------|----|---|----|---------|---|---------------------|-----|---|---|----------------|---|-------|
|     |                            | F                          | M   | F                         | M  | F                    | M   | F                                  | M  | F                                       | M  | F       | M | F                   | M   | F   | M | F              | M |       |
| 1   | Aaglung HP, Gulmi          | 163                        | 129 | 8                         | 4  | 38                   | 27  | 21                                 | 11 | 9                                       | 7  | 0       | 0 | 39                  | 32  | 2   | 3 | 0              | 0 | 493   |
| 2   | Amararathok SHP, Gulmi     | 56                         | 52  | 33                        | 24 | 31                   | 29  | 1                                  | 3  | 7                                       | 3  | 0       | 0 | 24                  | 20  | 0   | 0 | 0              | 0 | 283   |
| 3   | Amarpur SHP, Gulmi         | 147                        | 103 | 123                       | 63 | 52                   | 28  | 5                                  | 0  | 70                                      | 45 | 0       | 0 | 85                  | 50  | 0   | 0 | 0              | 0 | 771   |
| 4   | Apchaur SHP, Gulmi         | 22                         | 19  | 23                        | 17 | 13                   | 10  | 3                                  | 1  | 9                                       | 5  | 0       | 0 | 30                  | 20  | 2   | 3 | 0              | 0 | 177   |
| 5   | Arbenee SHP, Gulmi         | 52                         | 40  | 51                        | 46 | 44                   | 34  | 29                                 | 21 | 13                                      | 14 | 0       | 0 | 28                  | 26  | 4   | 2 | 0              | 0 | 404   |
| 6   | Arjee SHP, Gulmi           | 17                         | 12  | 0                         | 0  | 141                  | 73  | 3                                  | 6  | 5                                       | 5  | 0       | 0 | 17                  | 13  | 0   | 1 | 0              | 0 | 293   |
| 7   | Arkhole SHP, Gulmi         | 50                         | 23  | 9                         | 4  | 64                   | 19  | 1                                  | 0  | 5                                       | 4  | 0       | 0 | 91                  | 50  | 5   | 3 | 0              | 0 | 328   |
| 8   | Arkhangang SHP, Gulmi      | 24                         | 14  | 0                         | 3  | 130                  | 134 | 10                                 | 7  | 35                                      | 24 | 0       | 0 | 35                  | 29  | 0   | 0 | 0              | 0 | 445   |
| 9   | Arlangkot SHP, Gulmi       | 33                         | 21  | 38                        | 20 | 24                   | 16  | 7                                  | 4  | 24                                      | 14 | 0       | 0 | 88                  | 66  | 0   | 0 | 0              | 0 | 355   |
| 10  | Aslewa HP, Gulmi           | 119                        | 80  | 2                         | 0  | 8                    | 2   | 27                                 | 18 | 22                                      | 28 | 0       | 0 | 38                  | 24  | 1   | 2 | 2              | 0 | 373   |
| 11  | Badagaun HP Gulmi          | 47                         | 40  | 9                         | 4  | 23                   | 16  | 2                                  | 1  | 90                                      | 71 | 0       | 0 | 170                 | 164 | 3   | 1 | 0              | 0 | 641   |
| 12  | Bjkateri SHP, Gulmi        | 39                         | 39  | 5                         | 3  | 54                   | 57  | 24                                 | 26 | 4                                       | 3  | 0       | 0 | 28                  | 26  | 7   | 7 | 0              | 0 | 322   |
| 13  | Baletakser HP, Gulmi       | 130                        | 88  | 6                         | 2  | 141                  | 90  | 25                                 | 16 | 30                                      | 16 | 0       | 0 | 177                 | 98  | 11  | 6 | 0              | 0 | 836   |
| 14  | Balithum SHP, Gulmi        | 44                         | 23  | 0                         | 0  | 18                   | 8   | 3                                  | 1  | 0                                       | 0  | 0       | 0 | 50                  | 38  | 8   | 4 | 0              | 0 | 197   |
| 15  | Bamgha SHP, Gulmi          | 66                         | 46  | 0                         | 0  | 27                   | 19  | 0                                  | 0  | 14                                      | 13 | 0       | 0 | 35                  | 19  | 0   | 0 | 0              | 0 | 239   |
| 16  | Bastu SHP, Gulmi           | 147                        | 103 | 0                         | 0  | 49                   | 30  | 2                                  | 1  | 90                                      | 64 | 0       | 0 | 103                 | 70  | 0   | 0 | 0              | 0 | 659   |
| 17  | Bhanbhane SHP Gulmi        | 5                          | 3   | 3                         | 1  | 89                   | 44  | 1                                  | 1  | 16                                      | 18 | 0       | 0 | 25                  | 20  | 0   | 0 | 0              | 0 | 226   |
| 18  | Bharse HP, Gulmi           | 86                         | 61  | 2                         | 3  | 1                    | 4   | 0                                  | 0  | 24                                      | 24 | 0       | 0 | 14                  | 3   | 0   | 0 | 0              | 0 | 222   |
| 19  | Bhurtung HP, Gulmi         | 48                         | 46  | 7                         | 9  | 22                   | 10  | 38                                 | 30 | 33                                      | 19 | 0       | 0 | 79                  | 68  | 1   | 0 |                | 0 | 410   |
| 20  | Birbas SHP, Gulmi          | 2                          | 0   | 3                         | 0  | 2                    | 0   | 1                                  | 0  | 39                                      | 16 | 0       | 0 | 23                  | 19  | 0   | 0 | 0              | 0 | 105   |
| 21  | Bisukharka HP, Gulmi       | 53                         | 31  | 21                        | 25 | 37                   | 19  | 17                                 | 14 | 122                                     | 68 | 0       | 0 | 72                  | 35  | 2   | 1 | 0              | 0 | 517   |
| 22  | Chhapahile HP Gulmi        | 0                          | 1   | 94                        | 81 | 26                   | 20  | 0                                  | 0  | 0                                       | 0  | 0       | 0 | 41                  | 22  | 0   | 1 | 0              | 0 | 286   |
| 23  | Darbar Devistan SHP, Gulmi | 72                         | 42  | 9                         | 4  | 101                  | 46  | 7                                  | 2  | 60                                      | 33 | 0       | 0 | 209                 | 106 | 0   | 0 | 0              | 0 | 691   |

| S.N | Name of VDC            | Typhoid<br>(Enteric Fever) |     | Acute gastro<br>enteritis |    | Amoebic<br>Dysentery |     | Bacillary<br>Dysentery/Shigellosis |    | Presumed<br>non-infectious<br>diarrhea, |    | Cholera |   | Intestinal<br>Worms |     | Jaundice<br>and<br>Infective<br>Hepatitis |    | Hepatitis<br>A |   | Total |
|-----|------------------------|----------------------------|-----|---------------------------|----|----------------------|-----|------------------------------------|----|---|----|---------|---|---------------------|-----|---|----|----------------|---|-------|
|     |                        | F                          | M   | F                         | M  | F                    | M   | F                                  | M  | F                                       | M  | F       | M | F                   | M   | F   | M  | F              | M |       |
| 24  | Darlamchur SHP,Gulmi   | 28                         | 33  | 0                         | 0  | 137                  | 93  | 3                                  | 1  | 2                                       | 2  | 0       | 0 | 6                   | 7   | 6   | 2  | 0              | 0 | 320   |
| 25  | Darling SHP gulmi      | 12                         | 8   | 4                         | 5  | 290                  | 211 | 4                                  | 4  | 1                                       | 5  | 0       | 0 | 216                 | 163 | 0   | 0  | 0              | 0 | 923   |
| 26  | Daungha SHP,Gulmi      | 18                         | 12  | 0                         | 0  | 105                  | 105 | 11                                 | 12 | 0                                       | 0  | 0       | 0 | 38                  | 21  | 2   | 0  | 0              | 0 | 324   |
| 27  | Dhurkot PHC,Gulmi      | 61                         | 54  | 21                        | 14 | 98                   | 88  | 1                                  | 2  | 5                                       | 6  | 0       | 0 | 6                   | 4   | 2   | 5  | 0              | 0 | 367   |
| 28  | Dirbung SHP,Gulmi      | 55                         | 39  | 0                         | 0  | 34                   | 25  | 20                                 | 17 | 0                                       | 0  | 0       | 0 | 135                 | 96  | 6   | 4  | 0              | 0 | 431   |
| 29  | Doholi SHP,Gulmi       | 77                         | 41  | 4                         | 5  | 23                   | 24  | 17                                 | 10 | 43                                      | 31 | 0       | 0 | 51                  | 31  | 43  | 30 | 0              | 0 | 430   |
| 30  | Dubichaur SHP,Gulmi    | 15                         | 11  | 26                        | 25 | 19                   | 14  | 5                                  | 7  | 0                                       | 0  | 0       | 0 | 4                   | 2   | 0   | 0  | 0              | 0 | 128   |
| 31  | Foksing HP,Gulmi       | 57                         | 23  | 5                         | 5  | 53                   | 29  | 4                                  | 5  | 32                                      | 30 | 0       | 0 | 42                  | 38  | 6   | 3  | 0              | 0 | 332   |
| 32  | Gaudakot SHP,Gulmi     | 31                         | 25  | 11                        | 4  | 73                   | 36  | 1                                  | 1  | 17                                      | 8  | 0       | 0 | 25                  | 17  | 0   | 1  | 0              | 0 | 250   |
| 33  | Ghamir SHP,Gulmi       | 185                        | 143 | 27                        | 21 | 110                  | 93  | 27                                 | 23 | 2                                       | 6  | 0       | 0 | 7                   | 9   | 9   | 13 | 0              | 0 | 675   |
| 34  | Gwadi SHP,Gulmi        | 8                          | 8   | 0                         | 0  | 17                   | 16  | 1                                  | 1  | 0                                       | 0  | 0       | 0 | 20                  | 14  | 0   | 0  | 0              | 0 | 85    |
| 35  | Gwagha SHP,Gulmi       | 54                         | 32  | 0                         | 0  | 3                    | 6   | 2                                  | 1  | 23                                      | 22 | 0       | 0 | 6                   | 5   | 3   | 10 | 0              | 0 | 167   |
| 36  | Hadahade HP,Gulmi      | 42                         | 29  | 13                        | 1  | 101                  | 87  | 4                                  | 4  | 12                                      | 9  | 0       | 0 | 86                  | 46  | 7   | 3  | 0              | 0 | 444   |
| 37  | Hansara SHP Gulmi      | 8                          | 6   | 0                         | 1  | 10                   | 11  | 0                                  | 0  | 43                                      | 23 | 0       | 0 | 26                  | 24  | 0   | 0  | 0              | 0 | 152   |
| 38  | Hardineta SHP,Gulmi    | 7                          | 4   | 0                         | 0  | 4                    | 2   | 1                                  | 0  | 48                                      | 46 | 0       | 0 | 33                  | 21  | 2   | 2  | 0              | 0 | 170   |
| 39  | HarewaSHP,Gulmi        | 16                         | 10  | 0                         | 0  | 52                   | 38  | 4                                  | 0  | 16                                      | 6  | 0       | 0 | 25                  | 26  | 0   | 0  | 0              | 0 | 193   |
| 40  | Harmichaur HP,Gulmi    | 49                         | 42  | 13                        | 6  | 8                    | 7   | 0                                  | 0  | 26                                      | 22 | 0       | 0 | 15                  | 5   | 0   | 0  | 0              | 0 | 193   |
| 41  | Harraachaur SHP,Gulmi  | 73                         | 44  | 40                        | 26 | 29                   | 19  | 2                                  | 1  | 95                                      | 53 | 0       | 0 | 35                  | 22  | 1   | 0  | 0              | 0 | 440   |
| 42  | Hastichaur Hp,Gulmi    | 182                        | 154 | 29                        | 18 | 10                   | 6   | 5                                  | 2  | 0                                       | 0  | 0       | 0 | 45                  | 24  | 17  | 12 | 0              | 0 | 504   |
| 43  | Hunga HP,Gulmi         | 13                         | 7   | 45                        | 51 | 99                   | 83  | 0                                  | 1  | 55                                      | 44 | 0       | 0 | 71                  | 63  | 0   | 0  | 0              | 0 | 532   |
| 44  | Hwangdi HP,Gulmi       | 58                         | 26  | 0                         | 0  | 55                   | 34  | 0                                  | 0  | 20                                      | 14 | 0       | 0 | 89                  | 53  | 0   | 2  | 0              | 0 | 351   |
| 45  | Ismarajasthal HP,Gulmi | 36                         | 38  | 19                        | 15 | 95                   | 48  | 9                                  | 7  | 13                                      | 7  | 0       | 0 | 198                 | 124 | 29  | 17 | 0              | 0 | 655   |
| 46  | Jaisithok SHP,Gulmi    | 62                         | 38  | 0                         | 0  | 121                  | 76  | 13                                 | 10 | 28                                      | 12 | 0       | 0 | 75                  | 58  | 0   | 0  | 0              | 0 | 493   |
| 47  | Jayakhani SHP,Gulmi    | 0                          | 2   | 0                         | 1  | 4                    | 12  | 0                                  | 0  | 7                                       | 14 | 0       | 0 | 15                  | 20  | 0   | 0  | 0              | 0 | 75    |

| S.N | Name of VDC                       | Typhoid<br>(Enteric Fever) |     | Acute gastro<br>enteritis |     | Amoebic<br>Dysentery |     | Bacillary<br>Dysentery/Shigellosis |    | Presumed<br>non-infectious<br>diarrhea, |     | Cholera |   | Intestinal<br>Worms |    | Jaundice<br>and<br>Infective<br>Hepatitis |    | Hepatitis<br>A |   | Total |
|-----|-----------------------------------|----------------------------|-----|---------------------------|-----|----------------------|-----|------------------------------------|----|---|-----|---------|---|---------------------|----|---|----|----------------|---|-------|
|     |                                   | F                          | M   | F                         | M   | F                    | M   | F                                  | M  | F                                       | M   | F       | M | F                   | M  | F   | M  | F              | M |       |
| 48  | Johang PHC,Gulmi                  | 59                         | 42  | 19                        | 8   | 9                    | 7   | 7                                  | 4  | 25                                      | 18  | 0       | 0 | 36                  | 25 | 16  | 10 | 0              | 0 | 285   |
| 49  | Johang SHP,Gulmi                  | 55                         | 34  | 14                        | 8   | 11                   | 6   | 10                                 | 9  | 29                                      | 26  | 0       | 0 | 28                  | 24 | 5   | 3  | 0              | 0 | 262   |
| 50  | Juniya SHP,Gulmi                  | 90                         | 48  | 0                         | 0   | 0                    | 0   | 0                                  | 0  | 80                                      | 37  | 0       | 0 | 62                  | 45 | 0   | 0  | 0              | 0 | 362   |
| 51  | Juvung SHP,Gulmi                  | 0                          | 0   | 7                         | 1   | 26                   | 15  | 2                                  | 1  | 56                                      | 42  | 0       | 0 | 43                  | 23 | 7   | 2  | 0              | 0 | 225   |
| 52  | khadgakot SHP,Gulmi               | 4                          | 3   | 4                         | 0   | 19                   | 22  | 7                                  | 6  | 21                                      | 14  | 0       | 0 | 69                  | 29 | 0   | 0  | 0              | 0 | 198   |
| 53  | Kharjyang HP,Gulmi                | 56                         | 42  | 0                         | 1   | 80                   | 60  | 3                                  | 3  | 144                                     | 149 | 0       | 0 | 92                  | 82 | 0   | 0  | 0              | 0 | 712   |
| 54  | Kurgha HP,Gulmi                   | 49                         | 32  | 19                        | 7   | 36                   | 18  | 44                                 | 26 | 76                                      | 43  | 0       | 0 | 92                  | 56 | 1   | 1  | 0              | 0 | 500   |
| 55  | Limgha SHP,Gulmi                  | 42                         | 36  | 0                         | 0   | 16                   | 18  | 14                                 | 10 | 3                                       | 4   | 0       | 0 | 86                  | 71 | 0   | 0  | 0              | 0 | 300   |
| 56  | Malaghiri SHP,Gulmi               | 9                          | 13  | 1                         | 3   | 5                    | 3   | 13                                 | 8  | 16                                      | 11  | 0       | 0 | 19                  | 15 | 0   | 1  | 0              | 0 | 117   |
| 57  | Marbhung HP,Gulmi                 | 23                         | 19  | 9                         | 6   | 213                  | 270 | 8                                  | 2  | 4                                       | 1   | 0       | 0 | 133                 | 89 | 2   | 2  | 0              | 0 | 781   |
| 58  | Marie Stopes Center Tamghas Gulmi | 0                          | 0   | 0                         | 0   | 0                    | 0   | 0                                  | 0  | 0                                       | 0   | 0       | 0 | 0                   | 0  | 0   | 0  | 0              | 0 | 0     |
| 59  | Musikot HP,Gulmi                  | 17                         | 10  | 1                         | 0   | 30                   | 28  | 17                                 | 8  | 46                                      | 37  | 0       | 0 | 38                  | 28 | 0   | 1  | 0              | 0 | 261   |
| 60  | Myalpokhari SHP,Gulmi             | 0                          | 0   | 0                         | 0   | 62                   | 41  | 3                                  | 4  | 131                                     | 77  | 0       | 0 | 21                  | 17 | 0   | 0  | 0              | 0 | 356   |
| 61  | Nayaghaun SHP,Gulmi               | 78                         | 58  | 9                         | 9   | 40                   | 31  | 11                                 | 6  | 5                                       | 2   | 0       | 0 | 72                  | 88 | 13  | 14 | 0              | 0 | 436   |
| 62  | Neta SHP,Gulmi                    | 34                         | 33  | 8                         | 3   | 16                   | 11  | 0                                  | 1  | 148                                     | 129 | 0       | 0 | 48                  | 31 | 2   | 4  | 0              | 0 | 468   |
| 63  | Pallikot SHP,Gulmi                | 58                         | 30  | 2                         | 2   | 102                  | 56  | 33                                 | 24 | 116                                     | 77  | 0       | 0 | 92                  | 72 | 0   | 1  | 0              | 0 | 665   |
| 64  | Paralmi SHP,Gulmi                 | 14                         | 6   | 26                        | 11  | 44                   | 18  | 6                                  | 2  | 70                                      | 42  | 0       | 0 | 45                  | 29 | 1   | 0  | 0              | 0 | 314   |
| 65  | Pudhi Amarai SHP,Gulmi            | 44                         | 25  | 0                         | 0   | 55                   | 41  | 33                                 | 20 | 121                                     | 74  | 0       | 0 | 122                 | 85 | 0   | 0  | 0              | 0 | 620   |
| 66  | Pipaldhara HP,Gulmi               | 65                         | 64  | 16                        | 18  | 72                   | 45  | 29                                 | 32 | 49                                      | 43  | 0       | 0 | 45                  | 43 | 2   | 2  | 0              | 0 | 525   |
| 67  | Purkhotdaha HP,Gulmi              | 55                         | 37  | 0                         | 1   | 97                   | 73  | 19                                 | 24 | 72                                      | 57  | 0       | 0 | 18                  | 17 | 4   | 4  | 0              | 0 | 478   |
| 68  | Purtighat HP,Gulmi                | 8                          | 8   | 6                         | 3   | 9                    | 8   | 2                                  | 3  | 0                                       | 0   | 0       | 0 | 8                   | 12 | 0   | 0  | 0              | 0 | 67    |
| 69  | Reemuwa SHP,Gulmi                 | 12                         | 12  | 12                        | 12  | 58                   | 54  | 0                                  | 0  | 0                                       | 0   | 0       | 0 | 34                  | 39 | 0   | 0  | 0              | 0 | 233   |
| 70  | Reesunga Private hospital ,Gulmi  | 354                        | 414 | 63                        | 100 | 28                   | 100 | 24                                 | 24 | 3                                       | 5   | 0       | 0 | 0                   | 0  | 38  | 33 | 0              | 0 | 1186  |
| 71  | Rudrawati Hospital,gulmi          | 0                          | 0   | 0                         | 0   | 0                    | 0   | 0                                  | 0  | 0                                       | 0   | 0       | 0 | 0                   | 0  | 0   | 0  | 0              | 0 | 0     |
| 72  | Rupakot SHP,Gulmi                 | 19                         | 27  | 0                         | 0   | 73                   | 69  | 0                                  | 0  | 0                                       | 0   | 0       | 0 | 101                 | 80 | 3   | 3  | 0              | 0 | 375   |

| S.N | Name of VDC                                | Typhoid<br>(Enteric Fever) |      | Acute gastro<br>enteritis |      | Amoebic<br>Dysentery |      | Bacillary<br>Dysentery/Shigellosis |     | Presumed<br>non-infectious<br>diarrhea, |      | Cholera |   | Intestinal<br>Worms |      | Jaundice<br>and<br>Infective<br>Hepatitis |     | Hepatitis<br>A |    | Total |
|-----|--|----------------------------|------|---------------------------|------|----------------------|------|------------------------------------|-----|---|------|---------|---|---------------------|------|---|-----|----------------|----|-------|
|     |  | F                          | M    | F                         | M    | F                    | M    | F                                  | M   | F                                       | M    | F       | M | F                   | M    | F   | M   | F              | M  |       |
| 73  | Ruru PHC,Gulmi                             | 56                         | 54   | 56                        | 56   | 97                   | 91   | 39                                 | 36  | 8                                       | 6    | 0       | 0 | 173                 | 176  | 17  | 18  | 33             | 36 | 952   |
| 74  | Ruru SHP,Gulmi                             | 28                         | 19   | 53                        | 40   | 27                   | 15   | 7                                  | 4   | 0                                       | 0    | 0       | 0 | 40                  | 35   | 6   | 7   | 0              | 1  | 282   |
| 75  | Samudahik swasta kendra,Gulmi              | 0                          | 0    | 0                         | 0    | 0                    | 0    | 0                                  | 0   | 0                                       | 0    | 0       | 0 | 0                   | 0    | 0   | 0   | 0              | 0  | 0     |
| 76  | Santipur HP,Gulmi                          | 49                         | 35   | 118                       | 75   | 94                   | 82   | 37                                 | 36  | 3                                       | 2    | 0       | 0 | 87                  | 100  | 5   | 6   | 0              | 0  | 729   |
| 77  | Shiringa PHC ,Gulmi                        | 49                         | 33   | 26                        | 15   | 28                   | 14   | 15                                 | 7   | 42                                      | 31   | 0       | 0 | 23                  | 16   | 7   | 3   | 0              | 0  | 309   |
| 78  | Simichaur HP,Gulmi                         | 111                        | 70   | 158                       | 144  | 163                  | 134  | 21                                 | 21  | 0                                       | 0    | 0       | 0 | 101                 | 86   | 14  | 17  | 0              | 0  | 1040  |
| 79  | Sirsi HP,Gulmi                             | 74                         | 66   | 72                        | 67   | 74                   | 78   | 38                                 | 30  | 4                                       | 2    | 0       | 0 | 126                 | 133  | 4   | 1   | 0              | 0  | 769   |
| 80  | Tamghas Hospital Gulmi                     | 635                        | 334  | 423                       | 210  | 140                  | 76   | 118                                | 70  | 211                                     | 145  | 0       | 0 | 218                 | 147  | 125                                       | 81  | 3              | 3  | 2939  |
| 81  | Thanpati HP,Gulmi                          | 107                        | 90   | 28                        | 29   | 8                    | 4    | 1                                  | 2   | 30                                      | 24   | 0       | 0 | 36                  | 29   | 0   | 0   | 0              | 0  | 388   |
| 82  | Thololumpek SHP,Gulmi                      | 53                         | 41   | 1                         | 1    | 41                   | 36   | 3                                  | 3   | 42                                      | 46   | 0       | 0 | 70                  | 66   | 0   | 0   | 0              | 0  | 403   |
| 83  | Turang HP,Gulmi                            | 83                         | 96   | 70                        | 85   | 30                   | 38   | 10                                 | 9   | 33                                      | 26   | 0       | 0 | 45                  | 41   | 5   | 3   | 0              | 0  | 574   |
| 84  | Vijay Diagnostc And health<br>Center,Gulmi | 0                          | 0    | 70                        | 0    | 0                    | 0    | 0                                  | 0   | 0                                       | 0    | 0       | 0 | 0                   | 0    | 0   | 0   | 0              | 0  | 70    |
| 85  | Wagla SHP,Gulmi                            | 71                         | 47   | 5                         | 3    | 176                  | 121  | 12                                 | 5   | 40                                      | 27   | 0       | 0 | 272                 | 194  | 0   | 0   | 0              | 0  | 973   |
| 86  | Wamitaskar HP,Gulmi                        | 166                        | 108  | 182                       | 119  | 190                  | 121  | 55                                 | 29  | 285                                     | 161  | 0       | 0 | 247                 | 163  | 47  | 29  | 0              | 0  | 1902  |
|     | Total                                      | 5196                       | 3831 | 2111                      | 1548 | 4854                 | 3702 | 1002                               | 741 | 3122                                    | 2212 | 0       | 0 | 5512                | 4097 | 503                                       | 384 | 38             | 40 | 38893 |

## Annex 7: WASH Stakeholder Mapping (2071/072) of Gulmi District

### A. Name of Funding Agency : Government of Nepal

| S.N | Benefitted name of VDCs | Type of Scheme (DWS, S&H, CCA/DRR, other specify) | Planned Year of Completion | If DWS specify (Gravity, OH, or Lift, well, Tube well) | Benefitted |     | Current Status of scheme (Ongoing/ Planned) |
|-----|-------------------------|---|----------------------------|--|------------|-----|---|
|     |                         |   |                            |  | Ward. No   | HHs |   |
| 1   | Purkotdah               | DWS   | FY 2071/72                 | Gravity  | 1,9        | 36  |   |
| 2   | Paudiamarai             | DWS   | FY 2071/72                 | Gravity  | 2          | 30  |   |
| 3   | Paudiamarai             | DWS   | FY 2071/72                 | Gravity  | 5          | 80  |   |
| 4   | Hardharde               | DWS   | FY 2071/72                 | Gravity  | 5          | 70  |   |
| 5   | Doholi                  | DWS   | FY 2071/72                 | Gravity  | 7,8        | 20  |   |
| 6   | Darlamchaur             | DWS   | FY 2071/72                 | Gravity  | 5          | 78  |   |
| 7   | Malaygiri               | DWS   | FY 2071/72                 | Gravity  | 1,2,3      | 54  |   |
| 8   | Amarpur                 | DWS   | FY 2071/72                 | Gravity  | 9          | 27  |   |
| 9   | Purkotdah               | DWS   | FY 2071/72                 | Lift   | 5,6        | 305 |   |
| 10  | Chhapahile              | DWS   | FY 2071/72                 | Gravity  | 6          | 85  |   |
| 11  | Wagla/Sirseni           | DWS   | FY 2071/72                 | Gravity  |            | 82  |   |
| 12  | Badagaun                | DWS   | FY 2071/72                 | Gravity  | 3,4,5,6    | 368 |   |
| 13  | Hastichaur              | DWS   | FY 2071/72                 | Gravity  | 8,9        | 50  |   |

### B. Name of Funding Agency: From DWSSDO

| Benefitted name of VDCs                                      | Type of Scheme (DWS, S&H, CCA/DRR, other specify) | Planned Year of Completion | If DWS specify (Gravity, OH, or Lift, well, Tube well) | Ward. No                                      | HHs   | Current scheme Status of (Ongoing/ Planned) | Estimated investment (NRs) |
|--|---|----------------------------|--|---|-------|---|----------------------------|
| Ghamir, Arje, Ismarajasthal, Doholi, Hastichaur, Darlamchaur | DWS   | 2073/074                   | Gravity  | –   | 15046 | ongoing                                     | 123514.00                  |
| Paudiamarai  | DWS   | 2074/075                   | Gravity  | 1,2,6,8,and 9                                 | 2647  | ongoing                                     | 18544.00                   |
| Wami   | DWS   | 2074/075                   | Gravity  | 1,2,4,5, and 7                                | 5494  | ongoing                                     | 29789.00                   |
| Jaisithok, Dhurkotrajasthal                                  | DWS   | 2074/075                   | Gravity  | Jaisithok, 1-9/ Dhurkot Rajasthal 1,2,3 and 8 | 2187  | ongoing                                     | 33849.00                   |
| Myalpokhari  | DWS   | 2074/075                   | Gravity  | 2,3,4,5,6 and 7                               | 1008  | ongoing                                     | 6403.00                    |
| Thanpati   | DWS   | 2074/075                   | Lifting  | 2,3,5,6-9                                     | 2522  | ongoing                                     | 31298.00                   |
| Phoxing  | DWS   | 2074/075                   | Gravity  | 2-9   | 3886  | ongoing                                     | 19611.00                   |
| Tamghas  | DWS   | 2074/075                   | Lifting  | 1-4,6,and 8                                   | 14140 | ongoing                                     | 41246.00                   |
| Tamghas  | DWS   | 2072/073                   | Gravity  | 4, 5  | 3139  | ongoing                                     | 7166.00                    |
| Hastichaur   | DWS   | 2072/073                   | Gravity  | 8,9   | 486   | ongoing                                     | 9265.00                    |
| Ruru   | DWS   | 2073/074                   | Gravity  | 1,2,3   | 2336  | ongoing                                     | 21398.00                   |

| Benefitted name of VDCs | Type of Scheme (DWS, S&H, CCA/DRR, other specify) | Planned Year of Completion | If DWS specify (Gravity, OH, or Lift, well, Tube well) | Ward. No                     | HHs  | Current scheme Planned) | Status of (Ongoing/ | Estimated investment (NRs |
|-------------------------|---|----------------------------|--|------------------------------|------|-------------------------|---------------------|---------------------------|
| Tamghas                 | DWS   | 2072/073                   | Gravity  | 6,7                          | 360  | ongoing                 |                     | 10209.00                  |
| Simchaur                | DWS   | 2074/075                   | Lifting  | 2,3,5-9                      | 3152 | ongoing                 |                     | 47780.00                  |
| Bisukharka              | DWS   | 2074/075                   | Gravity  | 1, 9                         | 676  | ongoing                 |                     | 6376.00                   |
| Shantipur               | DWS   | 2074/075                   | Gravity  | 2,3,4,5,6                    | 1424 | ongoing                 |                     | 11830.00                  |
| Arje                    | DWS   | 2074/075                   | Gravity  | 2,3,4,5,6,7,8                | 816  | ongoing                 |                     | 6686.00                   |
| Marbhung                | DWS   | 2073/074                   | Gravity  | 1-3                          | 1532 | ongoing                 |                     | 6548.00                   |
| Arje                    | DWS   | 2074/075                   | Gravity  | Arje 8-9 Amarpur 7,8         | 696  | ongoing                 |                     | 10165.00                  |
| Digam, Baletaksar       | DWS   | 2074/075                   | Lifting  | Digam 1,2 and Baletaxar 1, 2 | 1074 | ongoing                 |                     | 16690.00                  |
| Wamitaksar              | DWS   | 2075/076                   | Gravity  | 1-4, 9                       | 2418 | ongoing                 |                     | 39315.00                  |
| Resunga MCP             | DWS   | 2073/074                   | Gravity  | 5                            | 2253 | ongoing                 |                     | 17242.00                  |
| Resunga MCP             | DWS   | 2074/075                   | Gravity  | 5, 6                         | 2500 | ongoing                 |                     | 27642.00                  |
| Daugha                  | DWS   | 2074/075                   | Lifting  | 3-9                          | 3060 | ongoing                 |                     | 58883.00                  |
| Rimuwa                  | DWS   | 2072/073                   | Gravity  | 8-9                          | 688  | ongoing                 |                     | 6037.00                   |
| Baletaksar              | DWS   | 2074/075                   | Lifting  | 4-5                          | 2147 | ongoing                 |                     | 43363.00                  |
| Bhurtung                | DWS   | 2074/075                   | Gravity  | 1-9                          | 2209 | ongoing                 |                     | 22261.00                  |
| Digam                   | DWS   | 2074/075                   | Lifting  | 1                            | 236  | ongoing                 |                     | 9402.00                   |
| Hunga                   | DWS   | 2074/075                   | Gravity  | 2, 4-9                       | 2190 | ongoing                 |                     | 29554.00                  |
| Resunga MCP             | DWS   | 2074/075                   | Lifting  | 1-3                          | 2190 | ongoing                 |                     | 38484.00                  |
| Paralmi                 | DWS   | 2074/075                   | Gravity  | 6-9                          | 1689 | ongoing                 |                     | 12059.00                  |
| Hastichaur              | DWS   | 2074/075                   | Lifting  | 2-4                          | 1548 | ongoing                 |                     | 36894.00                  |
| Doholi                  | DWS   | 2074/075                   | Lifting  | 4-8                          | 2565 | ongoing                 |                     | 60937.00                  |
| Baletaksar              | DWS   | 2074/075                   | Lifting  | 1, 7                         | 281  | ongoing                 |                     | 7285.00                   |
| Hadhade                 | DWS   | 2074/075                   | Gravity  | 3,4                          | 948  | ongoing                 |                     | 7740.00                   |
| Baletaksar              | DWS   | 2074/075                   | Lifting  | 9                            | 684  | ongoing                 |                     | 9643.00                   |
| Johang, Hasara          | DWS   | 2074/075                   | Gravity  | Johang 4, 5 /Hasara 1, 7     | 3208 | ongoing                 |                     | 23738.00                  |
| Aglung                  | DWS   | 2073/074                   | Gravity  | 8                            | 480  | ongoing                 |                     | 8963.00                   |
| Bajhkateri              | DWS   | 2073/074                   | Gravity  | 1,2                          | 782  | ongoing                 |                     | 9997.00                   |
| Johang                  | DWS   | 2074/075                   | Gravity  | 6,7,8,9                      | 250  | ongoing                 |                     | 8420.00                   |
| Musikot                 | DWS   | 2072/073                   | Gravity  | 7                            | 147  | ongoing                 |                     | 2265.00                   |
| Pallikot                | DWS   | 2074/075                   | Gravity  | 5                            | 122  | ongoing                 |                     | 5771.00                   |
| Gaudakot                | DWS   | 2074/075                   | Lifting  | 3                            | 663  | ongoing                 |                     | 12582.00                  |
| Ghamir                  | DWS   | 2075/076                   | Gravity  | 2, 3, 4, 8                   | 423  | ongoing                 |                     | 4890.00                   |
| Resunga MCP             | DWS   | 2073/074                   | Gravity  | 7                            | 742  | ongoing                 |                     | 6286.00                   |
| Resunga MCP             | DWS   | 2074/075                   | Gravity  | 11-13                        | 4015 | ongoing                 |                     | 18543.00                  |
| Bastu                   | DWS   | 2075/076                   | Gravity  | 1-9                          | 2318 | ongoing                 |                     | 35485.00                  |

| Benefitted name of VDCs     | Type of Scheme (DWS, S&H, CCA/DRR, other specify) | Planned Year of Completion | If DWS specify (Gravity, OH, or Lift, well, Tube well) | Ward. No                      | HHs  | Current scheme Planned) | Status of (Ongoing/ | Estimated investment (NRs |
|-----------------------------|---|----------------------------|--|-------------------------------|------|-------------------------|---------------------|---------------------------|
| Resunga MCP                 | DWS   | 2075/076                   | Lifting  | 1-3                           | 2153 | ongoing                 |                     | 7538.00                   |
| Birbas                      | DWS   | 2075/076                   | Lifting  | 1-2                           | 333  | ongoing                 |                     | 8992.00                   |
| Amar Arbathok               | DWS   | 2074/075                   | Lifting  | 1-9                           | 1548 | ongoing                 |                     | 36703.00                  |
| Harrachaur Shantipur        | DWS   | 2074/075                   | Gravity  | Harrachaur 7, 9 & Shantipur 7 | 1665 | ongoing                 |                     | 16095.00                  |
| Hardineta                   | DWS   | 2074/075                   | Gravity  | 3-4                           | 685  | ongoing                 |                     | 6236.00                   |
| Hardineta, Birbas, Pallikot | DWS   | 2074/075                   | Lifting  | 1-9                           | 1356 | ongoing                 |                     | 12354.00                  |
| Thulolumpek                 | DWS   | 2074/075                   | Lifting  | 4-9                           | 1896 | ongoing                 |                     | 29060.00                  |
| Resunga MCP                 | DWS   | 2074/075                   | Lifting  | 3-9                           | 4260 | ongoing                 |                     | 59038.00                  |
| Bajhkateri                  | DWS   | 2074/075                   | Gravity  | 4-6                           | 527  | ongoing                 |                     | 5153.00                   |
| Bajhkateri                  | DWS   | 2074/075                   | Gravity  | 5-6                           | 356  | ongoing                 |                     | 4386.00                   |
| Darbar Devasthan            | DWS   | 2075/076                   | Lifting  | 2-7                           | 1986 | ongoing                 |                     | 37007.00                  |
| Digam                       | DWS   | 2074/075                   | Gravity  | 4-6                           | 625  | ongoing                 |                     | 8804.00                   |
| Purtighat                   | DWS   | 2074/075                   | Gravity  | 2-6                           | 1532 | ongoing                 |                     | 9096.00                   |
| Aglung                      | DWS   | 2074/075                   | Gravity  | 1-5                           | 625  | ongoing                 |                     | 5042.00                   |
| Birbas                      | DWS   | 2074/075                   | Gravity  | 1-5                           | 1393 | ongoing                 |                     | 24539.00                  |
| Pallikot                    | DWS   | 2074/075                   | Gravity  | 3, 4                          | 203  | ongoing                 |                     | 6286.00                   |
| Darlamchaur                 | DWS   | 2076/077                   | Lifting  | 1-9                           | 4256 | ongoing                 |                     | 60237.00                  |
| Marbhung                    | DWS   | 2074/075                   | Gravity  | 6-7                           | 300  | ongoing                 |                     | 4117.00                   |
| Arje, Ghamir                | DWS   | 2074/075                   | Gravity  | Arje 9, Ghamir 2, 4           | 428  | ongoing                 |                     | 6494.00                   |
| Nayagaun                    | DWS   | 2074/075                   | Gravity  | 4                             | 289  | ongoing                 |                     | 4624.00                   |
| Hastichaur                  | DWS   | 2074/075                   | Gravity  | 5-6                           | 178  | ongoing                 |                     | 2498.00                   |
| Gwadi                       | DWS   | 2074/075                   | Gravity  | 9                             | 427  | ongoing                 |                     | 5781.00                   |
| Neta                        | DWS   | –                          | –  | –                             | –    | plan                    |                     | –                         |
| Jaisithok                   | DWS   | –                          | –  | –                             | –    | plan                    |                     | –                         |
| Dibrung                     | DWS   | –                          | –  | –                             | –    | plan                    |                     | –                         |
| Ismarajasthal               | DWS   | –                          | –  | –                             | –    | plan                    |                     | –                         |
| Wamitaksar                  | DWS   | –                          | –  | –                             | –    | plan                    |                     | –                         |



### Annex 8: Institutional sanitation status

| Name of VDC      | Number of Institutions | Toilet facility | Not toilet facility | Gender friendly | Gender Unfriendly | Child friendly | Child Unfriendly | Disable friendly | Disable Unfriendly | Water facility | Not water facility | % of institution not having toilet | % of institutions without Gender friendly | % of institutions without disable friendly toilet | % of institutions DWS facility |
|------------------|------------------------|-----------------|---------------------|-----------------|-------------------|----------------|------------------|------------------|--------------------|----------------|--------------------|------------------------------------|---|---|--------------------------------|
| Aaglung          | 9                      | 7               | 2                   | 3               | 6                 | 7              | 2                | 0                | 9                  | 4              | 3                  | 22%                                | 67%                                       | 100%  | 44%                            |
| AmarArbathok     | 5                      | 4               | 1                   | 0               | 5                 | 0              | 5                | 0                | 5                  | 2              | 2                  | 20%                                | 100%                                      | 100%  | 40%                            |
| Amarpur          | 10                     | 8               | 2                   | 8               | 2                 | 8              | 2                | 0                | 10                 | 6              | 2                  | 20%                                | 20%                                       | 100%  | 60%                            |
| Apchaur          | 10                     | 8               | 2                   | 1               | 9                 | 3              | 7                | 0                | 10                 | 7              | 1                  | 20%                                | 90%                                       | 100%  | 70%                            |
| Arbani           | 7                      | 6               | 1                   | 2               | 5                 | 2              | 5                | 0                | 7                  | 1              | 0                  | 14%                                | 71%                                       | 100%  | 14%                            |
| Arje             | 8                      | 6               | 2                   | 3               | 5                 | 2              | 6                | 0                | 8                  | 5              | 1                  | 25%                                | 63%                                       | 100%  | 63%                            |
| Arkhang          | 7                      | 5               | 2                   | 3               | 4                 | 0              | 7                | 0                | 7                  | 1              | 4                  | 29%                                | 57%                                       | 100%  | 14%                            |
| Arlangkot        | 9                      | 6               | 3                   | 0               | 9                 | 2              | 7                | 0                | 9                  | 6              | 1                  | 33%                                | 100%                                      | 100%  | 67%                            |
| Aslewa           | 8                      | 6               | 2                   | 2               | 6                 | 0              | 8                | 2                | 6                  | 4              | 2                  | 25%                                | 75%                                       | 75%   | 50%                            |
| Badagaun         | 14                     | 11              | 3                   | 1               | 13                | 3              | 11               | 0                | 14                 | 8              | 5                  | 21%                                | 93%                                       | 100%  | 57%                            |
| Bajhketeria      | 9                      | 8               | 1                   | 2               | 7                 | 7              | 2                | 2                | 7                  | 5              | 2                  | 11%                                | 78%                                       | 78%   | 56%                            |
| Baletaksar       | 9                      | 8               | 1                   | 1               | 8                 | 4              | 5                | 0                | 9                  | 8              | 1                  | 11%                                | 89%                                       | 100%  | 89%                            |
| Balithum         | 9                      | 9               | 0                   | 2               | 7                 | 0              | 9                | 1                | 8                  | 4              | 4                  | 0%                                 | 78%                                       | 89%   | 44%                            |
| Bamgha           | 9                      | 6               | 3                   | 1               | 8                 | 1              | 8                | 0                | 9                  | 5              | 3                  | 33%                                | 89%                                       | 100%  | 56%                            |
| Bharse           | 7                      | 5               | 2                   | 3               | 4                 | 4              | 3                | 1                | 6                  | 3              | 1                  | 29%                                | 57%                                       | 86%   | 43%                            |
| Bhurtung         | 12                     | 9               | 3                   | 1               | 11                | 3              | 9                | 2                | 10                 | 5              | 3                  | 25%                                | 92%                                       | 83%   | 42%                            |
| Birbas           | 7                      | 3               | 4                   | 3               | 4                 | 3              | 4                | 0                | 7                  | 0              | 7                  | 57%                                | 57%                                       | 100%  | 0%                             |
| Bisukharka       | 7                      | 5               | 2                   | 2               | 5                 | 0              | 7                | 0                | 7                  | 3              | 2                  | 29%                                | 71%                                       | 100%  | 43%                            |
| Chhapahile       | 8                      | 8               | 0                   | 2               | 6                 | 5              | 3                | 0                | 8                  | 3              | 5                  | 0%                                 | 75%                                       | 100%  | 38%                            |
| Dalamchaur       | 5                      | 5               | 0                   | 2               | 3                 | 0              | 5                | 0                | 5                  | 0              | 0                  | 0%                                 | 60%                                       | 100%  | 0%                             |
| Darbardevisthan  | 9                      | 2               | 7                   | 2               | 7                 | 2              | 7                | 0                | 9                  | 7              | 0                  | 78%                                | 78%                                       | 100%  | 78%                            |
| Darling          | 12                     | 10              | 2                   | 3               | 9                 | 0              | 12               | 1                | 11                 | 7              | 3                  | 17%                                | 75%                                       | 92%   | 58%                            |
| Daungha          | 9                      | 8               | 1                   | 0               | 9                 | 5              | 4                | 1                | 8                  | 5              | 2                  | 11%                                | 100%                                      | 89%   | 56%                            |
| DhurkotBastu     | 10                     | 6               | 4                   | 7               | 3                 | 4              | 6                | 3                | 7                  | 2              | 5                  | 40%                                | 30%                                       | 70%   | 20%                            |
| Bhanbhane        | 8                      | 5               | 3                   | 3               | 5                 | 2              | 6                | 0                | 8                  | 3              | 2                  | 38%                                | 63%                                       | 100%  | 38%                            |
| DhurkotNayagaun  | 11                     | 9               | 2                   | 6               | 5                 | 7              | 4                | 0                | 11                 | 6              | 5                  | 18%                                | 45%                                       | 100%  | 55%                            |
| DhurkotRajasthal | 6                      | 6               | 0                   | 6               | 0                 | 3              | 3                | 0                | 6                  | 4              | 2                  | 0%                                 | 0%  | 100%  | 67%                            |
| Digam            | 11                     | 6               | 5                   | 4               | 7                 | 3              | 8                | 3                | 8                  | 6              | 2                  | 45%                                | 64%                                       | 73%   | 55%                            |

| Name of VDC   | Number of Institutions | Toilet facility | Not toilet facility | Gender friendly | Gender Unfriendly | Child friendly | Child Unfriendly | Disable friendly | Disable Unfriendly | Water facility | Not water facility | % institution not having toilet | % of institution without Gender friendly | % of institutions without disable friendly toilet | % of institution DWS facility |
|---------------|------------------------|-----------------|---------------------|-----------------|-------------------|----------------|------------------|------------------|--------------------|----------------|--------------------|---------------------------------|--|---|-------------------------------|
| Dirbung       | 5                      | 4               | 1                   | 2               | 3                 | 0              | 5                | 0                | 5                  | 4              | 0                  | 20%                             | 60%                                      | 100%  | 80%                           |
| Dohali        | 10                     | 10              | 0                   | 3               | 7                 | 2              | 8                | 0                | 10                 | 8              | 2                  | 0%                              | 70%                                      | 100%  | 80%                           |
| Foksing       | 7                      | 5               | 2                   | 0               | 7                 | 2              | 5                | 0                | 7                  | 5              | 0                  | 29%                             | 100%                                     | 100%  | 71%                           |
| Gaidakot      | 8                      | 4               | 4                   | 4               | 4                 | 2              | 6                | 0                | 8                  | 2              | 2                  | 50%                             | 50%                                      | 100%  | 25%                           |
| Ghamir        | 9                      | 6               | 3                   | 6               | 3                 | 5              | 4                | 2                | 7                  | 4              | 2                  | 33%                             | 33%                                      | 78%   | 44%                           |
| Gwagha        | 7                      | 6               | 1                   | 1               | 5                 | 2              | 5                | 1                | 6                  | 5              | 0                  | 14%                             | 71%                                      | 86%   | 71%                           |
| Gwadi         | 9                      | 8               | 1                   | 0               | 9                 | 0              | 9                | 0                | 9                  | 7              | 2                  | 11%                             | 100%                                     | 100%  | 78%                           |
| Hadahade      | 10                     | 8               | 2                   | 7               | 3                 | 7              | 3                | 0                | 10                 | 5              | 3                  | 20%                             | 30%                                      | 100%  | 50%                           |
| Hansara       | 7                      | 6               | 1                   | 0               | 7                 | 6              | 1                | 0                | 7                  | 4              | 2                  | 14%                             | 100%                                     | 100%  | 57%                           |
| Hardineta     | 9                      | 9               | 0                   | 0               | 9                 | 2              | 7                | 0                | 9                  | 4              | 5                  | 0%                              | 100%                                     | 100%  | 44%                           |
| Harewa        | 6                      | 6               | 0                   | 0               | 6                 | 0              | 6                | 0                | 6                  | 4              | 2                  | 0%                              | 100%                                     | 100%  | 67%                           |
| Harmichaur    | 7                      | 6               | 1                   | 2               | 5                 | 0              | 7                | 0                | 7                  | 4              | 2                  | 14%                             | 71%                                      | 100%  | 57%                           |
| Harrachaur    | 4                      | 3               | 1                   | 0               | 4                 | 0              | 4                | 0                | 4                  | 4              | 0                  | 25%                             | 100%                                     | 100%  | 100%                          |
| Hastichaur    | 17                     | 9               | 8                   | 7               | 10                | 3              | 14               | 0                | 17                 | 9              | 4                  | 47%                             | 59%                                      | 100%  | 53%                           |
| Hawangdi      | 6                      | 6               | 0                   | 3               | 3                 | 0              | 6                | 2                | 4                  | 2              | 2                  | 0%                              | 50%                                      | 67%   | 33%                           |
| Hunga         | 7                      | 3               | 4                   | 3               | 4                 | 2              | 5                | 1                | 6                  | 3              | 3                  | 57%                             | 57%                                      | 86%   | 43%                           |
| IsmaRajasthal | 11                     | 9               | 2                   | 3               | 8                 | 4              | 7                | 2                | 9                  | 3              | 5                  | 18%                             | 73%                                      | 82%   | 27%                           |
| Jaisithok     | 7                      | 4               | 3                   | 3               | 4                 | 3              | 4                | 2                | 5                  | 3              | 2                  | 43%                             | 57%                                      | 71%   | 43%                           |
| Jayakhani     | 7                      | 4               | 3                   | 1               | 6                 | 3              | 4                | 0                | 7                  | 3              | 1                  | 43%                             | 86%                                      | 100%  | 43%                           |
| Johang        | 13                     | 12              | 1                   | 4               | 9                 | 7              | 6                | 1                | 12                 | 6              | 5                  | 8%                              | 69%                                      | 92%   | 46%                           |
| Juniya        | 6                      | 4               | 2                   | 0               | 6                 | 1              | 5                | 1                | 5                  | 4              | 0                  | 33%                             | 100%                                     | 83%   | 67%                           |
| Juvung        | 7                      | 6               | 1                   | 2               | 5                 | 3              | 4                | 0                | 7                  | 5              | 1                  | 14%                             | 71%                                      | 100%  | 71%                           |
| Khadgakot     | 10                     | 9               | 1                   | 3               | 7                 | 6              | 4                | 1                | 9                  | 6              | 3                  | 10%                             | 70%                                      | 90%   | 60%                           |
| Kharjyang     | 10                     | 10              | 0                   | 0               | 10                | 2              | 8                | 0                | 10                 | 7              | 3                  | 0%                              | 100%                                     | 100%  | 70%                           |
| Kurgha        | 10                     | 6               | 4                   | 3               | 7                 | 2              | 8                | 2                | 8                  | 7              | 0                  | 40%                             | 70%                                      | 80%   | 70%                           |
| Limgha        | 8                      | 4               | 3                   | 0               | 8                 | 0              | 8                | 1                | 7                  | 5              | 0                  | 38%                             | 100%                                     | 88%   | 63%                           |

| Name of VDC    | Number of Institutions | Toilet facility | Not toilet facility | Gender friendly | Gender Unfriendly | Child friendly | Child Unfriendly | Disable friendly | Disable Unfriendly | Water facility | Not water facility | % of institution not having toilet | % of institution without Gender friendly | % of institutions without disable friendly toilet | % of institution DWS facility |
|----------------|------------------------|-----------------|---------------------|-----------------|-------------------|----------------|------------------|------------------|--------------------|----------------|--------------------|------------------------------------|--|---|-------------------------------|
| Malagiri       | 7                      | 6               | 1                   | 1               | 6                 | 7              | 0                | 0                | 7                  | 6              | 1                  | 14%                                | 86%                                      | 100%  | 86%                           |
| Marbhung       | 10                     | 8               | 2                   | 9               | 1                 | 9              | 1                | 0                | 10                 | 8              | 1                  | 20%                                | 10%                                      | 100%  | 80%                           |
| Musikot        | 9                      | 8               | 1                   | 4               | 5                 | 0              | 9                | 0                | 9                  | 4              | 3                  | 11%                                | 56%                                      | 100%  | 44%                           |
| MyalPokhari    | 6                      | 4               | 2                   | 1               | 5                 | 6              | 0                | 0                | 6                  | 5              | 1                  | 33%                                | 83%                                      | 100%  | 83%                           |
| Neta           | 15                     | 12              | 3                   | 3               | 12                | 0              | 15               | 1                | 14                 | 9              | 3                  | 20%                                | 80%                                      | 93%   | 60%                           |
| Pallikot       | 6                      | 4               | 2                   | 3               | 3                 | 3              | 3                | 1                | 5                  | 3              | 2                  | 33%                                | 50%                                      | 83%   | 50%                           |
| Paralmi        | 8                      | 6               | 2                   | 2               | 6                 | 1              | 7                | 0                | 8                  | 3              | 3                  | 25%                                | 75%                                      | 100%  | 38%                           |
| PaudhiAmarayee | 7                      | 6               | 1                   | 0               | 7                 | 1              | 6                | 0                | 7                  | 5              | 1                  | 14%                                | 100%                                     | 100%  | 71%                           |
| Pipal dhara    | 9                      | 6               | 3                   | 5               | 4                 | 4              | 5                | 1                | 8                  | 5              | 2                  | 33%                                | 44%                                      | 89%   | 56%                           |
| PurkotDaha     | 8                      | 8               | 0                   | 7               | 1                 | 4              | 4                | 0                | 8                  | 7              | 1                  | 0%                                 | 13%                                      | 100%  | 88%                           |
| Purtighat      | 10                     | 7               | 3                   | 2               | 8                 | 5              | 5                | 3                | 7                  | 3              | 4                  | 30%                                | 80%                                      | 70%   | 30%                           |
| Reemuwa        | 7                      | 5               | 2                   | 2               | 5                 | 2              | 5                | 1                | 6                  | 4              | 1                  | 29%                                | 71%                                      | 86%   | 57%                           |
| Rupakot        | 8                      | 7               | 1                   | 3               | 5                 | 3              | 5                | 1                | 7                  | 2              | 4                  | 13%                                | 63%                                      | 88%   | 25%                           |
| Ruru           | 15                     | 12              | 3                   | 3               | 12                | 0              | 15               | 4                | 11                 | 7              | 2                  | 20%                                | 80%                                      | 73%   | 47%                           |
| Shantipur      | 11                     | 7               | 4                   | 5               | 6                 | 0              | 11               | 3                | 8                  | 5              | 2                  | 36%                                | 55%                                      | 73%   | 45%                           |
| Resunga NP     | 36                     | 34              | 2                   | 34              | 2                 | 0              | 36               | 9                | 27                 | 19             | 6                  | 6%                                 | 6%                                       | 75%   | 53%                           |
| Sirseni        | 9                      | 9               | 0                   | 9               | 0                 | 9              | 0                | 0                | 9                  | 7              | 2                  | 0%                                 | 0%                                       | 100%  | 78%                           |
| Thanpati       | 8                      | 7               | 1                   | 2               | 6                 | 0              | 8                | 1                | 7                  | 4              | 2                  | 13%                                | 75%                                      | 88%   | 50%                           |
| Thulolumpek    | 12                     | 10              | 0                   | 3               | 9                 | 1              | 11               | 2                | 10                 | 9              | 1                  | 0%                                 | 75%                                      | 83%   | 75%                           |
| Turang         | 12                     | 9               | 3                   | 4               | 8                 | 0              | 12               | 5                | 7                  | 7              | 0                  | 25%                                | 67%                                      | 58%   | 58%                           |
| Wagla          | 8                      | 8               | 0                   | 8               | 0                 | 8              | 0                | 0                | 8                  | 4              | 4                  | 0%                                 | 0%                                       | 100%  | 50%                           |
| Wamitaksar     | 21                     | 14              | 7                   | 0               | 21                | 8              | 13               | 6                | 15                 | 15             | 0                  | 33%                                | 100%                                     | 71%   | 71%                           |

### Annex 9: VDC wise DWS functionality

| Name of VDC     | Total number of DWS | HDPE pipe exposure/m any place | Leakage pipeline/m any place | Properly functional | Partially functional | Close down | Active WUSC members | Having O&M fund | Having VMV | Water tariff collection | % of Proper functional | % of partially Functional | % of close down | Score |
|-----------------|---------------------|--------------------------------|------------------------------|---------------------|----------------------|------------|---------------------|-----------------|------------|-------------------------|------------------------|---------------------------|-----------------|-------|
| Aaglung         | 5                   | 2                              | 1                            | 0                   | 5                    | 0          | 0                   | 1               | 1          | 1                       | 0%                     | 100%                      | 0%              | 15.0  |
| AmarArbathok    | 4                   | 1                              | 0                            | 0                   | 4                    | 0          | 0                   | 0               | 3          | 4                       | 0%                     | 100%                      | 0%              | 15.0  |
| Amarpur         | 4                   | 0                              | 0                            | 1                   | 3                    | 0          | 1                   | 1               | 3          | 3                       | 25%                    | 75%                       | 0%              | 11.3  |
| Apchaur         | 5                   | 0                              | 1                            | 0                   | 5                    | 0          | 1                   | 2               | 4          | 4                       | 0%                     | 100%                      | 0%              | 15.0  |
| Arje            | 6                   | 0                              | 0                            | 3                   | 3                    | 0          | 3                   | 0               | 6          | 6                       | 50%                    | 50%                       | 0%              | 7.5   |
| Arbani          | 0                   |                                |                              |                     |                      |            |                     |                 |            |                         |                        |                           |                 | 0.0   |
| Arkhang         | 3                   | 0                              | 0                            | 1                   | 2                    | 0          | 0                   | 1               | 1          | 1                       | 33%                    | 67%                       | 0%              | 10.0  |
| Arlangkot       | 12                  | 4                              | 4                            | 0                   | 12                   | 0          | 1                   | 0               | 2          | 3                       | 0%                     | 100%                      | 0%              | 15.0  |
| Aslewa          | 0                   | 0                              | 0                            | 0                   | 0                    | 0          | 0                   | 0               | 0          | 0                       | 0%                     | 0%                        | 0%              | 0.0   |
| Badagaun        | 4                   | 1                              | 3                            | 0                   | 2                    | 2          | 1                   | 0               | 2          | 2                       | 0%                     | 50%                       | 50%             | 22.5  |
| Bajhketeria     | 4                   | 1                              | 2                            | 2                   | 2                    | 0          | 1                   | 1               | 0          | 0                       | 50%                    | 50%                       | 0%              | 7.5   |
| Baletaksar      | 14                  | 2                              | 2                            | 3                   | 11                   | 0          | 2                   | 2               | 8          | 6                       | 21%                    | 79%                       | 0%              | 11.8  |
| Balithum        | 3                   | 0                              | 0                            | 1                   | 2                    | 0          | 3                   | 1               | 3          | 2                       | 33%                    | 67%                       | 0%              | 10.0  |
| Bamgha          | 6                   | 1                              | 1                            | 0                   | 3                    | 3          | 2                   | 3               | 5          | 5                       | 0%                     | 50%                       | 50%             | 22.5  |
| Bharse          | 4                   | 0                              | 1                            | 0                   | 4                    | 0          | 0                   | 1               | 3          | 2                       | 0%                     | 100%                      | 0%              | 15.0  |
| Bhurtung        | 3                   | 0                              | 0                            | 2                   | 1                    | 0          | 0                   | 2               | 2          | 0                       | 67%                    | 33%                       | 0%              | 5.0   |
| Birbas          | 0                   | 0                              | 0                            | 0                   | 0                    | 0          | 0                   | 0               | 0          | 0                       | 0%                     | 0%                        | 0%              | 0.0   |
| Bhanbhane       | 5                   | 0                              | 0                            | 1                   | 3                    | 1          | 3                   | 0               | 4          | 3                       | 20%                    | 60%                       | 20%             | 15.0  |
| Bisukharka      | 4                   | 0                              | 0                            | 1                   | 3                    | 0          | 0                   | 0               | 1          | 2                       | 25%                    | 75%                       | 0%              | 11.3  |
| Chhapahile      | 10                  | 0                              | 0                            | 1                   | 9                    | 0          | 0                   | 1               | 4          | 4                       | 10%                    | 90%                       | 0%              | 13.5  |
| Dalamchaur      | 1                   | 1                              | 1                            | 0                   | 0                    | 1          | 0                   | 0               | 0          | 1                       | 0%                     | 0%                        | 100%            | 30.0  |
| DhurkotNayagaun | 5                   | 2                              | 1                            | 2                   | 2                    | 1          | 2                   | 4               | 3          | 4                       | 40%                    | 40%                       | 20%             | 12.0  |
| Darbardevasthan | 7                   | 0                              | 0                            | 0                   | 4                    | 3          | 0                   | 0               | 2          | 5                       | 0%                     | 57%                       | 43%             | 21.4  |
| Darling         | 4                   | 0                              | 1                            | 1                   | 3                    | 0          | 2                   | 2               | 3          | 2                       | 25%                    | 75%                       | 0%              | 11.3  |
| Daungha         | 2                   | 2                              | 2                            | 0                   | 0                    | 2          | 1                   | 1               | 1          | 1                       | 0%                     | 0%                        | 100%            | 30.0  |
| DhurkotBastu    | 5                   | 1                              | 1                            | 0                   | 3                    | 2          | 1                   | 2               | 1          | 5                       | 0%                     | 60%                       | 40%             | 21.0  |
| Digam           | 10                  | 2                              | 1                            | 0                   | 5                    | 5          | 4                   | 2               | 6          | 8                       | 0%                     | 50%                       | 50%             | 22.5  |
| Dirbung         | 3                   | 0                              | 1                            | 2                   | 1                    | 0          | 0                   | 1               | 1          | 1                       | 67%                    | 33%                       | 0%              | 5.0   |
| Dohali          | 5                   | 1                              | 1                            | 5                   | 0                    | 0          | 1                   | 0               | 2          | 2                       | 100%                   | 0%                        | 0%              | 0.0   |

| Name of VDC   | Total number of DWS | HDPE pipe exposure/m any place | Leakage pipeline/m any place | Properly functional | Partially functional | Close down | Active WUSC members | Having O&M fund | Having VMV | Water tariff collection | % of Proper functional | % of partially Functional | % of close down | Score |
|---------------|---------------------|--------------------------------|------------------------------|---------------------|----------------------|------------|---------------------|-----------------|------------|-------------------------|------------------------|---------------------------|-----------------|-------|
| Foksing       | 3                   | 0                              | 0                            | 1                   | 2                    | 0          | 0                   | 0               | 2          | 2                       | 33%                    | 67%                       | 0%              | 10.0  |
| Gaidakot      | 5                   | 2                              | 2                            | 0                   | 5                    | 0          | 1                   | 2               | 3          | 5                       | 0%                     | 100%                      | 0%              | 15.0  |
| Ghamir        | 3                   | 0                              | 0                            | 2                   | 1                    | 0          | 2                   | 0               | 3          | 3                       | 67%                    | 33%                       | 0%              | 5.0   |
| Gwagha        | 8                   | 0                              | 0                            | 5                   | 3                    | 0          | 0                   | 2               | 0          | 1                       | 63%                    | 38%                       | 0%              | 5.6   |
| Gwadi         | 0                   | 0                              | 0                            | 0                   | 0                    | 0          | 0                   | 0               | 0          | 0                       | 0%                     | 0%                        | 0%              | 0.0   |
| Hadahade      | 7                   | 0                              | 0                            | 0                   | 6                    | 1          | 1                   | 3               | 5          | 4                       | 0%                     | 86%                       | 14%             | 17.1  |
| Hansara       | 9                   | 7                              | 0                            | 3                   | 6                    | 0          | 1                   | 1               | 0          | 2                       | 33%                    | 67%                       | 0%              | 10.0  |
| Harmichaur    | 7                   | 4                              | 4                            | 2                   | 5                    | 0          | 3                   | 0               | 3          | 4                       | 29%                    | 71%                       | 0%              | 10.7  |
| Hastichaur    | 9                   | 3                              | 1                            | 2                   | 7                    | 0          | 2                   | 6               | 5          | 4                       | 22%                    | 78%                       | 0%              | 11.7  |
| Hawangdi      | 4                   | 0                              | 0                            | 1                   | 3                    | 0          | 2                   | 0               | 1          | 1                       | 25%                    | 75%                       | 0%              | 11.3  |
| Hunga         | 7                   | 2                              | 2                            | 1                   | 6                    | 0          | 1                   | 0               | 2          | 4                       | 14%                    | 86%                       | 0%              | 12.9  |
| IsmaRajasthal | 4                   | 0                              | 0                            | 1                   | 3                    | 0          | 1                   | 0               | 3          | 3                       | 25%                    | 75%                       | 0%              | 11.3  |
| Jaisithok     | 2                   | 2                              | 2                            | 0                   | 1                    | 1          | 1                   | 1               | 1          | 1                       | 0%                     | 50%                       | 50%             | 22.5  |
| Jayakhani     | 4                   | 2                              | 3                            | 0                   | 3                    | 1          | 0                   | 3               | 2          | 0                       | 0%                     | 75%                       | 25%             | 18.8  |
| Juvung        | 3                   | 0                              | 0                            | 1                   | 2                    | 0          | 1                   | 0               | 2          | 0                       | 33%                    | 67%                       | 0%              | 10.0  |
| Juniya        | 5                   | 2                              | 0                            | 0                   | 4                    | 1          | 0                   | 1               | 3          | 2                       | 0%                     | 80%                       | 20%             | 18.0  |
| Johang        | 4                   | 1                              | 1                            | 2                   | 2                    | 0          | 1                   | 1               | 1          | 1                       | 50%                    | 50%                       | 0%              | 7.5   |
| Khadgakot     | 9                   | 1                              | 4                            | 3                   | 5                    | 1          | 2                   | 1               | 3          | 3                       | 33%                    | 56%                       | 11%             | 11.7  |
| Kharjyang     | 4                   | 2                              | 2                            | 1                   | 3                    | 0          | 0                   | 0               | 3          | 3                       | 25%                    | 75%                       | 0%              | 11.3  |
| Kurgha        | 4                   | 0                              | 0                            | 1                   | 3                    | 0          | 0                   | 2               | 2          | 1                       | 25%                    | 75%                       | 0%              | 11.3  |
| Limgha        | 4                   | 1                              | 0                            | 2                   | 2                    | 0          | 3                   | 0               | 3          | 3                       | 50%                    | 50%                       | 0%              | 7.5   |
| Malagiri      | 2                   | 2                              | 2                            | 1                   | 1                    | 0          | 1                   | 2               | 2          | 2                       | 50%                    | 50%                       | 0%              | 7.5   |
| Marbhung      | 5                   | 1                              | 0                            | 0                   | 5                    | 0          | 3                   | 3               | 2          | 3                       | 0%                     | 100%                      | 0%              | 15.0  |
| Musikot       | 5                   | 3                              | 1                            | 1                   | 4                    | 0          | 0                   | 2               | 3          | 2                       | 20%                    | 80%                       | 0%              | 12.0  |
| MyalPokhari   | 5                   | 5                              | 1                            | 1                   | 4                    | 0          | 1                   | 0               | 1          | 1                       | 20%                    | 80%                       | 0%              | 12.0  |
| Neta          | 6                   | 1                              | 1                            | 1                   | 5                    | 0          | 1                   | 1               | 3          | 1                       | 17%                    | 83%                       | 0%              | 12.5  |
| Pallikot      | 7                   | 0                              | 0                            | 1                   | 6                    | 0          | 1                   | 3               | 5          | 5                       | 14%                    | 86%                       | 0%              | 12.9  |
| Paralmi       | 3                   | 0                              | 0                            | 2                   | 1                    | 0          | 0                   | 3               | 3          | 3                       | 67%                    | 33%                       | 0%              | 5.0   |

| Name of VDC      | Total number of DWS | HDPE pipe exposure/m any place | Leakage pipeline/m any place | Properly functional | Partially functional | Close down | Active WUSC members | Having O&M fund | Having VMV | Water tariff collection | % of Proper functional | % of partially Functional | % of close down | Score |
|------------------|---------------------|--------------------------------|------------------------------|---------------------|----------------------|------------|---------------------|-----------------|------------|-------------------------|------------------------|---------------------------|-----------------|-------|
| PaudhiAmarayee   | 5                   | 2                              | 2                            | 0                   | 5                    | 0          | 0                   | 0               | 4          | 3                       | 0%                     | 100%                      | 0%              | 15.0  |
| Pipaldhara       | 4                   | 0                              | 1                            | 0                   | 4                    | 0          | 2                   | 1               | 2          | 3                       | 0%                     | 100%                      | 0%              | 15.0  |
| PurkotDaha       | 5                   | 0                              | 1                            | 0                   | 5                    | 0          | 0                   | 1               | 1          | 0                       | 0%                     | 100%                      | 0%              | 15.0  |
| Purtighat        | 6                   | 3                              | 3                            | 0                   | 6                    | 0          | 1                   | 0               | 1          | 1                       | 0%                     | 100%                      | 0%              | 15.0  |
| Reemuwa          | 5                   | 1                              | 1                            | 2                   | 3                    | 0          | 2                   | 0               | 2          | 3                       | 40%                    | 60%                       | 0%              | 9.0   |
| Rupakot          | 5                   | 2                              | 0                            | 1                   | 4                    | 0          | 0                   | 2               | 5          | 5                       | 20%                    | 80%                       | 0%              | 12.0  |
| Ruru             | 15                  | 1                              | 0                            | 6                   | 9                    | 0          | 10                  | 1               | 9          | 3                       | 40%                    | 60%                       | 0%              | 9.0   |
| Shantipur        | 10                  | 3                              | 2                            | 4                   | 6                    | 0          | 1                   | 6               | 6          | 7                       | 40%                    | 60%                       | 0%              | 9.0   |
| Resunga NP       | 34                  | 2                              | 8                            | 8                   | 26                   | 0          | 4                   | 2               | 13         | 15                      | 24%                    | 76%                       | 0%              | 11.5  |
| Sirseni          | 7                   | 2                              | 2                            | 2                   | 5                    | 0          | 1                   | 0               | 2          | 1                       | 29%                    | 71%                       | 0%              | 10.7  |
| Thanpati         | 3                   | 0                              | 1                            | 2                   | 1                    | 0          | 1                   | 0               | 3          | 3                       | 67%                    | 33%                       | 0%              | 5.0   |
| Thulolumpek      | 5                   | 2                              | 3                            | 1                   | 4                    | 0          | 0                   | 1               | 3          | 3                       | 20%                    | 80%                       | 0%              | 12.0  |
| Turang           | 4                   | 1                              | 0                            | 3                   | 1                    | 0          | 3                   | 0               | 2          | 2                       | 75%                    | 25%                       | 0%              | 3.8   |
| Wagla            | 2                   | 1                              | 1                            | 0                   | 1                    | 1          | 0                   | 1               | 1          | 2                       | 0%                     | 50%                       | 50%             | 22.5  |
| Wamitaksar       | 3                   | 0                              | 0                            | 0                   | 3                    | 0          | 0                   | 2               | 2          | 2                       | 0%                     | 100%                      | 0%              | 15.0  |
| Harrachaur       | 3                   | 0                              | 1                            | 0                   | 3                    | 0          | 0                   | 1               | 1          | 2                       | 0%                     | 100%                      | 0%              | 15.0  |
| Harewa           | 5                   | 2                              | 3                            | 1                   | 4                    | 0          | 2                   | 4               | 2          | 1                       | 20%                    | 80%                       | 0%              | 12.0  |
| DhurkotRajasthal | 5                   | 0                              | 0                            | 0                   | 5                    | 0          | 4                   | 0               | 4          | 2                       | 0%                     | 100%                      | 0%              | 15.0  |
| Hardineta        | 9                   | 0                              | 0                            | 0                   | 9                    | 0          | 0                   | 1               | 4          | 4                       | 0%                     | 100%                      | 0%              | 15.0  |

### Annex 10: DWS and Sanitation ranking of the VDCs

| S. N | VDC               | DWS scoring of VDCs      |                                |                                    |  |                                      |                     |             |      | Sanitation scoring of VDCs             |   |                                   |                                       |                                    |                     |             |       |
|------|-------------------|--------------------------|--------------------------------|------------------------------------|--|--------------------------------------|---------------------|-------------|------|--|---|-----------------------------------|---------------------------------------|------------------------------------|---------------------|-------------|-------|
|      |                   | Unservd Populatio n (35) | Functiona lity of Schemes (30) | Water Supply in Instituti ons (10) | Distance from all-weather road head (10) | Distance from seasonal road head (5) | % of Dalit HHs (10) | Total Score | Rank | HHs Not Having Permane nt Toilets (35) | School Institutions Not Having Permanent Toilets (30) | % Gender Unfriend ly Toilets (10) | % of Disable Unfriend ly Toilets (10) | Distance from All-weather road (5) | % of Dalit HHs (10) | Total Score | Ran k |
| 1    | Daungha           | 35.0                     | 30.0                           | 5.6                                | 5.0                                      | 0.0                                  | 2.4                 | 78.0        | 1    | 0.0                                    | 2.8   | 5.0                               | 4.4                                   | 5.0                                | 2.4                 | 19.7        | 59    |
| 2    | Dalamchaur        | 35.0                     | 30.0                           | 0.0                                | 8.0                                      | 0.0                                  | 2.6                 | 75.6        | 2    | 0.0                                    | 0.0   | 3.0                               | 5.0                                   | 8.0                                | 2.6                 | 18.6        | 62    |
| 3    | Badagaun          | 35.0                     | 22.5                           | 5.7                                | 10.0                                     | 0.0                                  | 1.8                 | 75.0        | 3    | 0.0                                    | 5.4   | 4.6                               | 5.0                                   | 10.0                               | 1.8                 | 26.8        | 26    |
| 4    | Bamgha            | 35.0                     | 22.5                           | 5.6                                | 10.0                                     | 0.0                                  | 1.1                 | 74.1        | 4    | 0.0                                    | 8.3   | 4.4                               | 5.0                                   | 10.0                               | 1.1                 | 28.8        | 15    |
| 5    | Jaisithok         | 35.0                     | 22.5                           | 4.3                                | 7.0                                      | 0.0                                  | 2.9                 | 71.7        | 5    | 1.4                                    | 10.7  | 2.9                               | 3.6                                   | 7.0                                | 2.9                 | 28.4        | 18    |
| 6    | Wagla             | 35.0                     | 22.5                           | 5.0                                | 6.0                                      | 0.0                                  | 2.7                 | 71.2        | 6    | 0.0                                    | 0.0   | 0.0                               | 5.0                                   | 6.0                                | 2.7                 | 13.7        | 74    |
| 7    | Dhurkot Rajasthal | 35.0                     | 15.0                           | 6.7                                | 10.0                                     | 0.0                                  | 3.2                 | 69.9        | 7    | 0.0                                    | 0.0   | 0.0                               | 5.0                                   | 10.0                               | 3.2                 | 18.2        | 65    |
| 8    | Paudhi Amarayee   | 35.0                     | 15.0                           | 7.1                                | 10.0                                     | 0.0                                  | 2.5                 | 69.6        | 8    | 0.0                                    | 3.6   | 5.0                               | 5.0                                   | 10.0                               | 2.5                 | 26.1        | 29    |
| 9    | Arlangkot         | 35.0                     | 15.0                           | 6.7                                | 10.0                                     | 0.0                                  | 2.3                 | 69.0        | 9    | 0.2                                    | 8.3   | 5.0                               | 5.0                                   | 10.0                               | 2.3                 | 30.8        | 7     |
| 10   | Darbar devisthan  | 35.0                     | 21.4                           | 7.8                                | 3.0                                      | 0.0                                  | 1.2                 | 68.4        | 10   | 0.1                                    | 19.4  | 3.9                               | 5.0                                   | 3.0                                | 1.2                 | 32.6        | 3     |
| 11   | Pipaldhara        | 35.0                     | 15.0                           | 5.6                                | 10.0                                     | 0.0                                  | 2.7                 | 68.3        | 11   | 0.0                                    | 8.3   | 2.2                               | 4.4                                   | 10.0                               | 2.7                 | 27.7        | 21    |
| 12   | Digam             | 35.0                     | 22.5                           | 5.5                                | 2.0                                      | 0.0                                  | 0.0                 | 65.0        | 12   | 0.0                                    | 11.4  | 3.2                               | 3.6                                   | 2.0                                | 0.0                 | 20.2        | 55    |
| 13   | Musikot           | 35.0                     | 12.0                           | 4.4                                | 10.0                                     | 0.0                                  | 2.7                 | 64.2        | 13   | 0.0                                    | 2.8   | 2.8                               | 5.0                                   | 10.0                               | 2.7                 | 23.3        | 44    |
| 14   | DhurkotBastu      | 35.0                     | 21.0                           | 2.0                                | 3.0                                      | 0.0                                  | 2.7                 | 63.7        | 14   | 0.0                                    | 10.0  | 1.5                               | 3.5                                   | 3.0                                | 2.7                 | 20.7        | 53    |
| 15   | Hastichaur        | 35.0                     | 11.7                           | 5.3                                | 6.0                                      | 0.0                                  | 4.0                 | 61.9        | 15   | 0.0                                    | 11.8  | 2.9                               | 5.0                                   | 6.0                                | 4.0                 | 29.7        | 9     |
| 16   | Hardineta         | 35.0                     | 15.0                           | 4.4                                | 3.0                                      | 0.0                                  | 1.3                 | 58.8        | 16   | 0.0                                    | 0.0   | 5.0                               | 5.0                                   | 3.0                                | 1.3                 | 14.3        | 72    |
| 17   | Baletaksar        | 35.0                     | 11.8                           | 8.9                                | 0.0                                      | 0.0                                  | 1.0                 | 56.7        | 17   | 0.0                                    | 2.8   | 4.4                               | 5.0                                   | 0.0                                | 1.0                 | 13.3        | 75    |
| 18   | Balithum          | 30.4                     | 10.0                           | 4.4                                | 8.0                                      | 0.0                                  | 1.1                 | 53.9        | 18   | 0.0                                    | 0.0   | 3.9                               | 4.4                                   | 8.0                                | 1.1                 | 17.5        | 68    |
| 19   | Gaidakot          | 35.0                     | 15.0                           | 2.5                                | 0.0                                      | 0.0                                  | 0.9                 | 53.4        | 19   | 0.0                                    | 12.5  | 2.5                               | 5.0                                   | 0.0                                | 0.9                 | 20.9        | 51    |
| 20   | Turang            | 35.0                     | 3.8                            | 5.8                                | 4.0                                      | 0.0                                  | 2.3                 | 50.8        | 20   | 0.0                                    | 6.3   | 3.3                               | 2.9                                   | 4.0                                | 2.3                 | 18.8        | 61    |
| 21   | Dirbung           | 35.0                     | 5.0                            | 8.0                                | 0.0                                      | 0.0                                  | 2.8                 | 50.8        | 21   | 0.0                                    | 5.0   | 3.0                               | 5.0                                   | 0.0                                | 2.8                 | 15.8        | 70    |
| 22   | MyalPokhari       | 18.1                     | 12.0                           | 8.3                                | 10.0                                     | 0.0                                  | 2.0                 | 50.4        | 22   | 0.0                                    | 8.3   | 4.2                               | 5.0                                   | 10.0                               | 2.0                 | 29.5        | 10    |
| 23   | Aaglung           | 18.7                     | 15.0                           | 4.4                                | 10.0                                     | 0.0                                  | 2.1                 | 50.2        | 23   | 0.0                                    | 5.6   | 3.3                               | 5.0                                   | 10.0                               | 2.1                 | 26.0        | 31    |
| 24   | Hadahade          | 24.1                     | 17.1                           | 5.0                                | 1.0                                      | 0.0                                  | 1.8                 | 49.1        | 24   | 0.5                                    | 5.0   | 1.5                               | 5.0                                   | 1.0                                | 1.8                 | 14.8        | 71    |

| S. N | VDC         | DWS scoring of VDCs      |                                |                                    |  |                                      |                     |             |      | Sanitation scoring of VDCs             |   |                                   |                                       |                                    |                     |             |       |
|------|-------------|--------------------------|--------------------------------|------------------------------------|--|--------------------------------------|---------------------|-------------|------|--|---|-----------------------------------|---------------------------------------|------------------------------------|---------------------|-------------|-------|
|      |             | Unservd Populatio n (35) | Functiona lity of Schemes (30) | Water Supply in Instituti ons (10) | Distance from all-weather road head (10) | Distance from seasonal road head (5) | % of Dalit HHs (10) | Total Score | Rank | HHs Not Having Permane nt Toilets (35) | School Institutions Not Having Permanent Toilets (30) | % Gender Unfriend ly Toilets (10) | % of Disable Unfriend ly Toilets (10) | Distance from All-weather road (5) | % of Dalit HHs (10) | Total Score | Ran k |
| 25   | Arbani      | 35.0                     | 0.0                            | 1.4                                | 10.0                                     | 0.0                                  | 2.1                 | 48.6        | 25   | 0.0                                    | 3.6   | 3.6                               | 5.0                                   | 10.0                               | 2.1                 | 24.3        | 38    |
| 26   | Bharse      | 17.3                     | 15.0                           | 4.3                                | 10.0                                     | 0.0                                  | 1.7                 | 48.2        | 26   | 0.0                                    | 7.1   | 2.9                               | 4.3                                   | 10.0                               | 1.7                 | 26.0        | 30    |
| 27   | Marbhung    | 12.2                     | 15.0                           | 8.0                                | 10.0                                     | 0.0                                  | 3.0                 | 48.2        | 27   | 1.1                                    | 5.0   | 0.5                               | 5.0                                   | 10.0                               | 3.0                 | 24.5        | 37    |
| 28   | Pallikot    | 26.9                     | 12.9                           | 5.0                                | 2.0                                      | 0.0                                  | 1.3                 | 48.0        | 28   | 0.0                                    | 8.3   | 2.5                               | 4.2                                   | 2.0                                | 1.3                 | 18.3        | 64    |
| 29   | Juvung      | 21.7                     | 10.0                           | 7.1                                | 7.0                                      | 0.0                                  | 1.7                 | 47.5        | 29   | 0.0                                    | 3.6   | 3.6                               | 5.0                                   | 7.0                                | 1.7                 | 20.8        | 52    |
| 30   | Jayakhani   | 8.3                      | 18.8                           | 4.3                                | 10.0                                     | 4.0                                  | 2.0                 | 47.3        | 30   | 0.0                                    | 10.7  | 4.3                               | 5.0                                   | 10.0                               | 2.0                 | 36.0        | 2     |
| 31   | Darling     | 11.5                     | 11.3                           | 5.8                                | 10.0                                     | 3.0                                  | 3.6                 | 45.2        | 31   | 0.0                                    | 4.2   | 3.8                               | 4.6                                   | 10.0                               | 3.6                 | 29.1        | 13    |
| 32   | Ghamir      | 24.6                     | 5.0                            | 4.4                                | 8.0                                      | 0.0                                  | 2.1                 | 44.1        | 32   | 0.0                                    | 8.3   | 1.7                               | 3.9                                   | 8.0                                | 2.1                 | 24.0        | 43    |
| 33   | Harrachaur  | 4.0                      | 15.0                           | 10.0                               | 10.0                                     | 4.0                                  | 1.1                 | 44.1        | 33   | 0.0                                    | 6.3   | 5.0                               | 5.0                                   | 10.0                               | 1.1                 | 31.3        | 5     |
| 34   | Thulolumpek | 11.7                     | 12.0                           | 7.5                                | 10.0                                     | 0.0                                  | 1.4                 | 42.6        | 34   | 0.7                                    | 0.0   | 3.8                               | 4.2                                   | 10.0                               | 1.4                 | 20.0        | 57    |
| 35   | Malagiri    | 10.1                     | 7.5                            | 8.6                                | 10.0                                     | 3.0                                  | 2.5                 | 41.6        | 35   | 0.0                                    | 3.6   | 4.3                               | 5.0                                   | 10.0                               | 2.5                 | 28.3        | 19    |
| 36   | Juniya      | 3.3                      | 18.0                           | 6.7                                | 10.0                                     | 0.0                                  | 3.6                 | 41.6        | 36   | 0.0                                    | 8.3   | 5.0                               | 4.2                                   | 10.0                               | 3.6                 | 31.1        | 6     |
| 37   | PurkotDaha  | 5.2                      | 15.0                           | 8.8                                | 10.0                                     | 0.0                                  | 2.3                 | 41.2        | 37   | 0.0                                    | 0.0   | 0.6                               | 5.0                                   | 10.0                               | 2.3                 | 17.9        | 67    |
| 38   | Bhanbhane   | 10.8                     | 15.0                           | 3.8                                | 10.0                                     | 0.0                                  | 1.7                 | 41.2        | 38   | 0.0                                    | 9.4   | 3.1                               | 5.0                                   | 10.0                               | 1.7                 | 29.2        | 12    |
| 39   | Neta        | 7.9                      | 12.5                           | 6.0                                | 10.0                                     | 0.0                                  | 3.4                 | 39.8        | 39   | 0.0                                    | 5.0   | 4.0                               | 4.7                                   | 10.0                               | 3.4                 | 27.1        | 25    |
| 40   | Chhapahile  | 7.0                      | 13.5                           | 3.8                                | 10.0                                     | 3.0                                  | 2.5                 | 39.8        | 40   | 0.0                                    | 0.0   | 3.8                               | 5.0                                   | 10.0                               | 2.5                 | 24.3        | 39    |
| 41   | Sirseni     | 8.6                      | 10.7                           | 7.8                                | 10.0                                     | 0.0                                  | 2.6                 | 39.7        | 41   | 4.5                                    | 0.0   | 0.0                               | 5.0                                   | 10.0                               | 2.6                 | 22.0        | 48    |
| 42   | Hawangdi    | 6.0                      | 11.3                           | 3.3                                | 10.0                                     | 5.0                                  | 3.4                 | 39.1        | 42   | 0.0                                    | 0.0   | 2.5                               | 3.3                                   | 10.0                               | 3.4                 | 24.3        | 40    |
| 43   | Khadgakot   | 6.3                      | 11.7                           | 6.0                                | 10.0                                     | 3.0                                  | 2.0                 | 38.9        | 43   | 0.0                                    | 2.5   | 3.5                               | 4.5                                   | 10.0                               | 2.0                 | 25.5        | 34    |
| 44   | Hunga       | 17.5                     | 12.9                           | 4.3                                | 3.0                                      | 0.0                                  | 1.2                 | 38.9        | 44   | 0.0                                    | 14.3  | 2.9                               | 4.3                                   | 3.0                                | 1.2                 | 25.6        | 33    |
| 45   | Hansara     | 11.3                     | 10.0                           | 5.7                                | 10.0                                     | 0.0                                  | 1.7                 | 38.7        | 45   | 0.0                                    | 3.6   | 5.0                               | 5.0                                   | 10.0                               | 1.7                 | 25.3        | 35    |
| 46   | Apchaur     | 3.8                      | 15.0                           | 7.0                                | 10.0                                     | 0.0                                  | 2.8                 | 38.6        | 46   | 1.3                                    | 5.0   | 4.5                               | 5.0                                   | 10.0                               | 2.8                 | 28.5        | 16    |
| 47   | Rupakot     | 13.7                     | 12.0                           | 2.5                                | 7.0                                      | 0.0                                  | 2.1                 | 37.3        | 47   | 0.0                                    | 3.1   | 3.1                               | 4.4                                   | 7.0                                | 2.1                 | 19.7        | 58    |
| 48   | Wamitaksar  | 2.6                      | 15.0                           | 7.1                                | 10.0                                     | 0.0                                  | 1.6                 | 36.3        | 48   | 0.0                                    | 8.3   | 5.0                               | 3.6                                   | 10.0                               | 1.6                 | 28.5        | 17    |
| 49   | Birbas      | 35.0                     | 0.0                            | 0.0                                | 0.0                                      | 0.0                                  | 1.1                 | 36.1        | 49   | 0.0                                    | 14.3  | 2.9                               | 5.0                                   | 0.0                                | 1.1                 | 23.3        | 45    |



| S. N | VDC             | DWS scoring of VDCs      |                                |                                    |  |                                      |                     |             |      | Sanitation scoring of VDCs             |   |                                   |                                       |                                    |                     |             |       |
|------|-----------------|--------------------------|--------------------------------|------------------------------------|--|--------------------------------------|---------------------|-------------|------|--|---|-----------------------------------|---------------------------------------|------------------------------------|---------------------|-------------|-------|
|      |                 | Unservd Populatio n (35) | Functiona lity of Schemes (30) | Water Supply in Instituti ons (10) | Distance from all-weather road head (10) | Distance from seasonal road head (5) | % of Dalit HHs (10) | Total Score | Rank | HHs Not Having Permane nt Toilets (35) | School Institutions Not Having Permanent Toilets (30) | % Gender Unfriend ly Toilets (10) | % of Disable Unfriend ly Toilets (10) | Distance from All-weather road (5) | % of Dalit HHs (10) | Total Score | Ran k |
| 50   | Harmichaur      | 7.7                      | 10.7                           | 5.7                                | 10.0                                     | 0.0                                  | 1.5                 | 35.7        | 50   | 0.3                                    | 3.6   | 3.6                               | 5.0                                   | 10.0                               | 1.5                 | 24.0        | 42    |
| 51   | Kurgha          | 5.2                      | 11.3                           | 7.0                                | 10.0                                     | 0.0                                  | 1.9                 | 35.3        | 51   | 0.0                                    | 10.0  | 3.5                               | 4.0                                   | 10.0                               | 1.9                 | 29.4        | 11    |
| 52   | Shantipur       | 9.1                      | 9.0                            | 4.5                                | 10.0                                     | 0.0                                  | 2.4                 | 35.0        | 52   | 0.0                                    | 9.1   | 2.7                               | 3.6                                   | 10.0                               | 2.4                 | 27.9        | 20    |
| 53   | Bajhketeria     | 6.9                      | 7.5                            | 5.6                                | 10.0                                     | 2.0                                  | 2.8                 | 34.8        | 53   | 2.0                                    | 2.8   | 3.9                               | 3.9                                   | 10.0                               | 2.8                 | 27.4        | 23    |
| 54   | IsmaRajasthal   | 8.5                      | 11.3                           | 2.7                                | 10.0                                     | 0.0                                  | 1.8                 | 34.2        | 54   | 0.0                                    | 4.5   | 3.6                               | 4.1                                   | 10.0                               | 1.8                 | 24.0        | 41    |
| 55   | Purtighat       | 4.8                      | 15.0                           | 3.0                                | 10.0                                     | 0.0                                  | 1.1                 | 34.0        | 55   | 1.2                                    | 7.5   | 4.0                               | 3.5                                   | 10.0                               | 1.1                 | 27.3        | 24    |
| 56   | DhurkotNayagaun | 10.2                     | 12.0                           | 5.5                                | 4.0                                      | 0.0                                  | 1.9                 | 33.6        | 56   | 1.3                                    | 4.5   | 2.3                               | 5.0                                   | 4.0                                | 1.9                 | 19.0        | 60    |
| 57   | Reemuwa         | 8.0                      | 9.0                            | 5.7                                | 8.0                                      | 0.0                                  | 1.7                 | 32.4        | 57   | 0.0                                    | 7.1   | 3.6                               | 4.3                                   | 8.0                                | 1.7                 | 24.7        | 36    |
| 58   | Harewa          | 0.9                      | 12.0                           | 6.7                                | 10.0                                     | 0.0                                  | 2.6                 | 32.1        | 58   | 0.0                                    | 0.0   | 5.0                               | 5.0                                   | 10.0                               | 2.6                 | 22.6        | 46    |
| 59   | Bisukharka      | 1.0                      | 11.3                           | 4.3                                | 10.0                                     | 0.0                                  | 4.3                 | 30.9        | 59   | 16.8                                   | 7.1   | 3.6                               | 5.0                                   | 10.0                               | 4.3                 | 46.9        | 1     |
| 60   | Amarpur         | 2.0                      | 11.3                           | 6.0                                | 10.0                                     | 0.0                                  | 1.6                 | 30.8        | 60   | 0.0                                    | 5.0   | 1.0                               | 5.0                                   | 10.0                               | 1.6                 | 22.6        | 47    |
| 61   | Johang          | 6.5                      | 7.5                            | 4.6                                | 10.0                                     | 0.0                                  | 2.0                 | 30.6        | 61   | 4.4                                    | 1.9   | 3.5                               | 4.6                                   | 10.0                               | 2.0                 | 26.4        | 28    |
| 62   | Gwagha          | 1.6                      | 5.6                            | 7.1                                | 10.0                                     | 3.0                                  | 3.0                 | 30.4        | 62   | 0.0                                    | 3.6   | 3.6                               | 4.3                                   | 10.0                               | 3.0                 | 27.5        | 22    |
| 63   | Foksing         | 0.1                      | 10.0                           | 7.1                                | 7.0                                      | 3.0                                  | 2.0                 | 29.2        | 63   | 0.0                                    | 7.1   | 5.0                               | 5.0                                   | 7.0                                | 2.0                 | 29.1        | 14    |
| 64   | Limgha          | 0.2                      | 7.5                            | 6.3                                | 10.0                                     | 0.0                                  | 2.9                 | 26.9        | 64   | 0.0                                    | 9.4   | 5.0                               | 4.4                                   | 10.0                               | 2.9                 | 31.6        | 4     |
| 65   | Arkhawang       | 4.2                      | 10.0                           | 1.4                                | 10.0                                     | 0.0                                  | 0.8                 | 26.4        | 65   | 0.0                                    | 7.1   | 2.9                               | 5.0                                   | 10.0                               | 0.8                 | 25.8        | 32    |
| 66   | Bhurtung        | 4.4                      | 5.0                            | 4.2                                | 10.0                                     | 0.0                                  | 1.4                 | 25.0        | 66   | 0.0                                    | 6.3   | 4.6                               | 4.2                                   | 10.0                               | 1.4                 | 26.4        | 27    |
| 67   | Kharjyang       | 1.9                      | 11.3                           | 7.0                                | 2.0                                      | 0.0                                  | 2.7                 | 24.9        | 67   | 2.6                                    | 0.0   | 5.0                               | 5.0                                   | 2.0                                | 2.7                 | 17.3        | 69    |
| 68   | AmarArbathok    | 0.1                      | 15.0                           | 4.0                                | 4.0                                      | 0.0                                  | 1.3                 | 24.5        | 68   | 0.0                                    | 5.0   | 5.0                               | 5.0                                   | 4.0                                | 1.3                 | 20.3        | 54    |
| 69   | Gwadi           | 7.3                      | 0.0                            | 7.8                                | 6.0                                      | 0.0                                  | 2.9                 | 23.9        | 69   | 0.0                                    | 2.8   | 5.0                               | 5.0                                   | 6.0                                | 2.9                 | 21.6        | 50    |
| 70   | Arje            | 1.4                      | 7.5                            | 6.3                                | 6.0                                      | 0.0                                  | 2.7                 | 23.9        | 70   | 6.9                                    | 6.3   | 3.1                               | 5.0                                   | 6.0                                | 2.7                 | 30.0        | 8     |
| 71   | Dohali          | 5.3                      | 0.0                            | 8.0                                | 8.0                                      | 0.0                                  | 1.2                 | 22.5        | 71   | 0.4                                    | 0.0   | 3.5                               | 5.0                                   | 8.0                                | 1.2                 | 18.1        | 66    |
| 72   | Paralmi         | 6.6                      | 5.0                            | 3.8                                | 7.0                                      | 0.0                                  | 0.0                 | 22.3        | 72   | 0.0                                    | 6.3   | 3.8                               | 5.0                                   | 7.0                                | 0.0                 | 22.0        | 49    |
| 73   | Resunga NP      | 0.0                      | 11.5                           | 5.3                                | 0.0                                      | 0.0                                  | 1.7                 | 18.5        | 73   | 0.0                                    | 1.4   | 0.3                               | 3.8                                   | 0.0                                | 1.7                 | 7.1         | 76    |
| 74   | Thanpati        | 0.6                      | 5.0                            | 5.0                                | 4.0                                      | 0.0                                  | 3.5                 | 18.1        | 74   | 1.2                                    | 3.1   | 3.8                               | 4.4                                   | 4.0                                | 3.5                 | 20.0        | 56    |
| 75   | Ruru            | 1.9                      | 9.0                            | 4.7                                | 0.0                                      | 0.0                                  | 1.5                 | 17.1        | 75   | 0.0                                    | 5.0   | 4.0                               | 3.7                                   | 0.0                                | 1.5                 | 14.2        | 73    |
| 76   | Aslewa          | 2.2                      | 0.0                            | 5.0                                | 4.0                                      | 0.0                                  | 0.6                 | 11.8        | 76   | 0.1                                    | 6.3   | 3.8                               | 3.8                                   | 4.0                                | 0.6                 | 18.5        | 63    |

### Annex 11: Institutional status for WASH activities

| Name of Organization | No of Schemes | Benefited HH | HDPE pipe exposure |             |             | Leakage in Pipeline |             |            | Overall Functional Status |                       |             | WUSC activeness |                |         | O&M Fund Raising |    | VMW |    | Water tariff |    |
|----------------------|---------------|--------------|--------------------|-------------|-------------|---------------------|-------------|------------|---------------------------|-----------------------|-------------|-----------------|----------------|---------|------------------|----|-----|----|--------------|----|
|                      |               |              | Many Places        | Some Places | Not Exposed | Many Places         | Some Places | No Leakage | Properly Functioning      | Partially Functioning | Closed Down | Active          | Somehow Active | Passive | Yes              | No | Yes | No | Yes          | No |
| FINIDA               | 85            | 7176         | 13                 | 62          | 10          | 17                  | 60          | 8          | 16                        | 67                    | 2           | 19              | 53             | 10      | 20               | 0  | 43  | 39 | 41           | 44 |
| M.B.C                | 4             | 171          | 1                  | 3           | 0           | 1                   | 3           | 0          | 0                         | 4                     | 0           | 0               | 3              | 0       | 0                | 0  | 1   | 3  | 0            | 4  |
| VDC                  | 1             | 20           | 0                  | 1           | 0           | 0                   | 1           | 0          | 0                         | 1                     | 0           | 0               | 1              | 0       | 0                | 0  | 1   | 0  | 1            | 0  |
| E.E.C                | 4             | 311          | 1                  | 3           | 0           | 1                   | 3           | 0          | 0                         | 4                     | 0           | 0               | 2              | 1       | 1                | 0  | 2   | 2  | 3            | 1  |
| DDC                  | 45            | 3684         | 7                  | 27          | 11          | 4                   | 36          | 5          | 14                        | 30                    | 1           | 16              | 25             | 3       | 4                | 0  | 24  | 21 | 22           | 23 |
| GOI                  | 9             | 849          | 0                  | 8           | 1           | 1                   | 7           | 1          | 2                         | 7                     | 0           | 1               | 6              | 2       | 4                | 0  | 6   | 3  | 6            | 3  |
| GON                  | 26            | 3239         | 9                  | 13          | 4           | 10                  | 13          | 3          | 9                         | 17                    | 0           | 7               | 17             | 1       | 4                | 0  | 15  | 11 | 16           | 10 |
| Red cross            | 24            | 2424         | 5                  | 15          | 4           | 4                   | 15          | 5          | 4                         | 20                    | 0           | 2               | 20             | 1       | 8                | 0  | 14  | 9  | 12           | 12 |
| UN HABITAT           | 1             | 220          | 0                  | 1           | 0           | 0                   | 1           | 0          | 1                         | 0                     | 0           | 0               | 1              | 0       | 0                | 0  | 1   | 0  | 1            | 0  |
| VDC                  | 73            | 3831         | 24                 | 42          | 7           | 12                  | 54          | 7          | 15                        | 57                    | 1           | 9               | 55             | 9       | 7                | 0  | 14  | 59 | 20           | 53 |
| UNICEF               | 2             | 337          | 1                  | 1           | 0           | 1                   | 1           | 0          | 0                         | 2                     | 0           | 1               | 1              | 0       | 1                | 0  | 2   | 0  | 2            | 0  |
| British Embassy      | 1             | 44           | 0                  | 1           | 0           | 0                   | 1           | 0          | 1                         | 0                     | 0           | 0               | 1              | 0       | 1                | 0  | 0   | 1  | 1            | 0  |
| VDC&DDC              | 1             | 48           | 0                  | 1           | 0           | 0                   | 1           | 0          | 1                         | 0                     | 0           | 0               | 1              | 0       | 0                | 0  | 0   | 1  | 0            | 1  |
| DSWDO                | 45            | 6193         | 4                  | 28          | 13          | 6                   | 26          | 13         | 16                        | 29                    | 0           | 11              | 28             | 6       | 10               | 0  | 24  | 20 | 25           | 20 |
| DWSSDO, Gulmi        | 2             | 480          | 0                  | 1           | 1           | 0                   | 2           | 0          | 1                         | 1                     | 0           | 2               | 0              | 0       | 0                | 0  | 1   | 1  | 1            | 1  |
| NPC                  | 1             | 115          | 0                  | 1           | 0           | 0                   | 1           | 0          | 0                         | 1                     | 0           | 0               | 0              | 1       | 0                | 0  | 0   | 0  | 0            | 1  |
| Government of Nepal  | 2             | 264          | 0                  | 2           | 0           | 0                   | 2           | 0          | 1                         | 1                     | 0           | 0               | 2              | 0       | 0                | 0  | 1   | 1  | 1            | 1  |
| GWS                  | 12            | 1094         | 2                  | 6           | 4           | 3                   | 8           | 1          | 4                         | 8                     | 0           | 1               | 10             | 1       | 6                | 0  | 6   | 6  | 4            | 8  |
| GARDEP               | 17            | 2812         | 3                  | 12          | 2           | 7                   | 8           | 2          | 3                         | 14                    | 0           | 6               | 11             | 0       | 5                | 0  | 14  | 3  | 13           | 4  |
| EC                   | 2             | 143          | 0                  | 2           | 0           | 0                   | 2           | 0          | 0                         | 2                     | 0           | 1               | 1              | 0       | 0                | 0  | 0   | 2  | 0            | 2  |
| Central Scheme       | 1             | 115          | 0                  | 1           | 0           | 0                   | 1           | 0          | 0                         | 1                     | 0           | 0               | 1              | 0       | 0                | 0  | 1   | 0  | 1            | 0  |
| Fund Board           | 1             | 173          | 0                  | 0           | 1           | 0                   | 1           | 0          | 1                         | 0                     | 0           | 1               | 0              | 0       | 0                | 0  | 1   | 0  | 1            | 0  |
| Bu. pu. Sainika      | 1             | 0            | 0                  | 1           | 0           | 0                   | 1           | 0          | 0                         | 1                     | 0           | 0               | 0              | 1       | 0                | 0  | 0   | 1  | 0            | 1  |
| NA                   | 28            | 2884         | 5                  | 15          | 8           | 4                   | 14          | 10         | 8                         | 20                    | 0           | 5               | 19             | 4       | 9                | 0  | 16  | 12 | 16           | 12 |
| division Office      | 1             | 32           | 0                  | 0           | 1           | 0                   | 1           | 0          | 0                         | 1                     | 0           | 0               | 1              | 0       | 0                | 0  | 1   | 0  | 1            | 0  |
| Kadari Khane Pani    | 1             | 56           | 0                  | 1           | 0           | 0                   | 1           | 0          | 0                         | 1                     | 0           | 0               | 1              | 0       | 0                | 0  | 1   | 0  | 0            | 1  |
| E E C                | 1             | 109          | 0                  | 0           | 1           | 0                   | 0           | 1          | 0                         | 1                     | 0           | 1               | 0              | 0       | 1                | 0  | 1   | 0  | 1            | 0  |

| Name of Organization        | No of Schemes | Benefited HH | HDPE pipe exposure |             |             | Leakage in Pipeline |             |            | Overall Functional Status |                       |             | WUSC activeness |                 |           | O&M Fund Raising |          | VMW        |            | Water tariff |                       |
|-----------------------------|---------------|--------------|--------------------|-------------|-------------|---------------------|-------------|------------|---------------------------|-----------------------|-------------|-----------------|-----------------|-----------|------------------|----------|------------|------------|--------------|-----------------------|
|                             |               |              | Many Places        | Some Places | Not Exposed | Many Places         | Some Places | No Leakage | Properly Functioning      | Partially Functioning | Closed Down | Active          | Somewhat Active | Passive   | Yes              | No       | Yes        | No         | Yes          | No                    |
| VDC&EC                      | 1             | 45           | 1                  | 0           | 0           | 1                   | 0           | 0          | 0                         | 1                     | 0           | 0               | 0               | 1         | 1                | 0        | 0          | 1          | 0            | 1                     |
| CDF                         | 2             | 178          | 1                  | 1           | 0           | 1                   | 1           | 0          | 0                         | 2                     | 0           | 0               | 2               | 0         | 0                | 0        | 2          | 0          | 2            | 0                     |
| ADB                         | 2             | 167          | 0                  | 0           | 2           | 0                   | 1           | 1          | 0                         | 2                     | 0           | 1               | 1               | 0         | 1                | 0        | 0          | 2          | 1            | 1                     |
| WB                          | 1             | 190          | 0                  | 1           | 0           | 0                   | 1           | 0          | 0                         | 1                     | 0           | 1               | 0               | 0         | 0                | 0        | 1          | 0          | 1            | 0                     |
| HELVETAS                    | 1             | 204          | 0                  | 1           | 0           | 0                   | 1           | 0          | 0                         | 1                     | 0           | 0               | 1               | 0         | 1                | 0        | 1          | 0          | 1            | 0                     |
| DDD&VDC                     | 1             | 160          | 1                  | 0           | 0           | 0                   | 1           | 0          | 0                         | 1                     | 0           | 0               | 1               | 0         | 0                | 0        | 0          | 1          | 1            | 0                     |
| N.N.M.B.C                   | 2             | 64           | 2                  | 0           | 0           | 0                   | 2           | 0          | 0                         | 2                     | 0           | 0               | 2               | 0         | 0                | 0        | 0          | 2          | 0            | 2                     |
| Rastiya Janjagarana Aviyan  | 1             | 65           | 0                  | 0           | 1           | 0                   | 1           | 0          | 1                         | 0                     | 0           | 1               | 0               | 0         | 0                | 0        | 1          | 0          | 1            | 0                     |
| District Water Office Gulmi | 1             | 120          | 1                  | 0           | 0           | 1                   | 0           | 0          | 0                         | 1                     | 0           | 0               | 1               | 0         | 0                | 0        | 1          | 0          | 1            | 0                     |
| UNDCEF                      | 1             | 103          | 0                  | 1           | 0           | 1                   | 0           | 0          | 0                         | 1                     | 0           | 1               | 0               | 0         | 1                | 0        | 1          | 0          | 0            | 1                     |
| Grid Nepal                  | 1             | 124          | 0                  | 1           | 0           | 0                   | 1           | 0          | 1                         | 0                     | 0           | 0               | 1               | 0         | 1                | 0        | 1          | 0          | 0            | 1                     |
| World Bank                  | 1             | 182          | 0                  | 1           | 0           | 0                   | 1           | 0          | 0                         | 1                     | 0           | 1               | 0               | 0         | 0                | 0        | 1          | 0          | 1            | 0                     |
| Unicef                      | 2             | 260          | 0                  | 2           | 0           | 0                   | 2           | 0          | 0                         | 2                     | 0           | 0               | 2               | 0         | 1                | 0        | 2          | 0          | 2            | 0                     |
| Kadari                      | 1             | 106          | 0                  | 0           | 1           | 0                   | 0           | 1          | 1                         | 0                     | 0           | 1               | 0               | 0         | 1                | 0        | 1          | 0          | 1            | 0                     |
| Local People                | 1             | 26           | 0                  | 1           | 0           | 0                   | 1           | 0          | 0                         | 1                     | 0           | 0               | 1               | 0         | 0                | 0        | 1          | 0          | 1            | 0                     |
| DDC&VDC                     | 1             | 300          | 0                  | 1           | 0           | 1                   | 0           | 0          | 0                         | 1                     | 0           | 0               | 1               | 0         | 0                | 0        | 1          | 0          | 1            | 0                     |
| <b>TOTAL</b>                | <b>411</b>    | <b>39118</b> | <b>81</b>          | <b>258</b>  | <b>72</b>   | <b>76</b>           | <b>277</b>  | <b>58</b>  | <b>100</b>                | <b>307</b>            | <b>4</b>    | <b>89</b>       | <b>273</b>      | <b>41</b> | <b>88</b>        | <b>0</b> | <b>204</b> | <b>201</b> | <b>203</b>   | <b>20</b><br><b>8</b> |

### Annex 12: Remoteness Mapping

| VDC_NAME        | All weather (Black top and Gravel) road head |                               | Seasonal road (Earthen) road head |                               | Black Top Score | Seasonal Score |
|-----------------|--|-------------------------------|-----------------------------------|-------------------------------|-----------------|----------------|
|                 | Road Head Name                               | Distance from VDC centre (Km) | Road Head Name                    | Distance from VDC centre (Km) |                 |                |
| Aaglung         | Tamghas to Aaglung                           | 68                            | Durkot to Aaglung                 | 0                             | 10              | 0              |
| AmarArbathok    | Birbas                                       | 8                             | vdc bulding                       | 0                             | 4               | 0              |
| Amarpur         | Tamghas to Amarpur                           | 20                            | vdc bulding                       | 0                             | 10              | 0              |
| Apchaur         | Indergauda-Aapchaur                          | 25                            | vdc bulding                       | 0                             | 10              | 0              |
| Arbani          | Ridi to Arbani                               | 20                            | vdc bulding                       | 0                             | 10              | 0              |
| Arje            | Dhannaraji-chorekate-Arje                    | 12                            | vdc bulding                       | 0                             | 6               | 0              |
| Arkhale         | Tamghas to Arkhle                            | 5                             | vdc bulding                       | 0                             | 3               | 0              |
| Arkhang         | Chhalditari-Darlamchaur-arjai-Arkhang        | 20                            | vdc bulding                       | 0                             | 10              | 0              |
| Arlangkot       | Ridhi  | 50                            | vdc bulding                       | 0                             | 10              | 0              |
| Aslewa          | Aslewa-Rambari-Chehami                       | 7                             | vdc bulding                       | 0                             | 4               | 0              |
| Badagaun        | Bhakhrechheda-Ratadada -Bhadagaun            | 30                            | vdc bulding                       | 0                             | 10              | 0              |
| Bajhketeria     | Tamghas                                      | 45                            | Sirseni                           | 7                             | 10              | 2              |
| Baletaksar      | Baletaksar                                   | 0                             | vdc bulding                       | 0                             | 0               | 0              |
| Balithum        | Gaidakot to Balithum                         | 15                            | vdc bulding                       | 0                             | 8               | 0              |
| Bamgha          | Baletaksar to Bamgha                         | 37                            | vdc bulding                       | 0                             | 10              | 0              |
| Bharse          | Majuwa -Mayalpokheri-Bharse                  | 20                            | vdc bulding                       | 0                             | 10              | 0              |
| Bhurtung        | Gaidakot to Bhurtung                         | 53                            | vdc bulding                       | 0                             | 10              | 0              |
| Birbas          | Tamghas to birbas                            | 0                             | vdc bulding                       | 0                             | 0               | 0              |
| Bisukharka      | Gaudakot                                     | 20                            | vdc bulding                       | 0                             | 10              | 0              |
| Chhapahile      | Tamghas- Paudi                               | 40                            | Paudi                             | 10                            | 10              | 3              |
| Dalamchaur      | Tamghas to Dalamchaur                        | 16                            | vdc bulding                       | 0                             | 8               | 0              |
| Darbardevisthan | Ghumti -Charapala-Kharjyan                   | 6                             | vdc bulding                       | 0                             | 3               | 0              |
| Darling         | Tamghas                                      | 45                            | Neta                              | 12                            | 10              | 3              |
| Daungha         | Naudhara Daungha                             | 10.7                          | vdc bulding                       | 0                             | 5               | 0              |
| DhurkotBastu    | Hulake-Bastu                                 | 6                             | vdc bulding                       | 0                             | 3               | 0              |
| Bhanbhane       | Tamghas to Bhanbhane                         | 35                            | vdc bulding                       | 0                             | 10              | 0              |
| DhurkotNayagaun | Hulake -Bhuwana-Nayagaun-Sundarpokhara       | 7.4                           | vdc bulding                       | 0                             | 4               | 0              |

| VDC_NAME         | All weather (Black top and Gravel) road head |                               | Seasonal road (Earthen) road head |                               | Black Top Score | Seasonal Score |
|------------------|--|-------------------------------|-----------------------------------|-------------------------------|-----------------|----------------|
|                  | Road Head Name                               | Distance from VDC centre (Km) | Road Head Name                    | Distance from VDC centre (Km) |                 |                |
| DhurkotRajasthal | Tamghas to Dhurkot Rajasthal                 | 26                            | vdc bulding                       | 0                             | 10              | 0              |
| Digam            | Pipal neta to Digham                         | 4.5                           | vdc bulding                       | 0                             | 2               | 0              |
| Dirbung          | Gaidakot                                     | 0                             | vdc bulding                       | 0                             | 0               | 0              |
| Dohali           | chhaldi-Chhinuwa khola -Dohali               | 15                            | vdc bulding                       | 0                             | 8               | 0              |
| Dubichaur        | Tamghas to Dibuchaur                         | 5                             | vdc bulding                       | 0                             | 3               | 0              |
| Foksing          | Puritighat -jukhum-foksing                   | 13                            | Bharse VDC                        | 12                            | 7               | 3              |
| Gaidakot         | Gaidakot                                     | 0                             | vdc bulding                       | 0                             | 0               | 0              |
| Ghamir           | Shiladi- Ghamir                              | 16                            | vdc bulding                       | 0                             | 8               | 0              |
| Gwagha           | Juhang-Juniya -Bharse-Gwagha                 | 26                            | Harewa                            | 12                            | 10              | 3              |
| Gwadi            | Ratamata-Talkhola Gawadi                     | 12                            | vdc bulding                       | 0                             | 6               | 0              |
| Hadahade         | Ridi Tamghas                                 | 2                             | vdc bulding                       | 0                             | 1               | 0              |
| Hansara          | Ridhi  | 24                            | vdc bulding                       | 0                             | 10              | 0              |
| Hardineta        | Pipalmeta to Hardineta                       | 6                             | vdc bulding                       | 0                             | 3               | 0              |
| Harewa           | Ridhi  | 35                            | vdc bulding                       | 0                             | 10              | 0              |
| Harmichaur       | Ridi   | 26                            | vdc bulding                       | 0                             | 10              | 0              |
| Harrachaur       | Tamghas palpa road                           | 50                            | Santipur VDC                      | 15                            | 10              | 4              |
| Hastichaur       | Tamghas                                      | 12                            | vdc bulding                       | 0                             | 6               | 0              |
| Hawangdi         | Tamghas                                      | 28                            | Neta                              | 18                            | 10              | 5              |
| Hunga            | Bheduwa to Hugha                             | 5                             | vdc bulding                       | 0                             | 3               | 0              |
| IsmaRajasthal    | Tamghas                                      | 30                            | vdc bulding                       | 0                             | 10              | 0              |
| Jaisithok        | Tamghas to jaisithok                         | 14                            | vdc bulding                       | 0                             | 7               | 0              |
| Jayakhani        | Ridhi  | 25                            | Harmichaur                        | 15                            | 10              | 4              |
| Johang           | Ridhi  | 36                            | vdc bulding                       | 0                             | 10              | 0              |
| Juniya           | Ridi to juniya                               | 30                            | vdc bulding                       | 0                             | 10              | 0              |
| Juvung           | Gaudakot                                     | 14                            | vdc bulding                       | 0                             | 7               | 0              |
| Khadgakot        | Ridhi  | 40                            | Purtighat                         | 12                            | 10              | 3              |
| Kharjyang        | Lumchha                                      | 4                             | vdc bulding                       | 0                             | 2               | 0              |
| Kurgha           | Ridhi  | 40                            | vdc bulding                       | 0                             | 10              | 0              |

| VDC_NAME       | All weather (Black top and Gravel) road head |                               | Seasonal road (Earthen) road head |                               | Black Top Score | Seasonal Score |
|----------------|--|-------------------------------|-----------------------------------|-------------------------------|-----------------|----------------|
|                | Road Head Name                               | Distance from VDC centre (Km) | Road Head Name                    | Distance from VDC centre (Km) |                 |                |
| Limgha         | Baletaksar                                   | 25                            | vdc bulding                       | 0                             | 10              | 0              |
| Malagiri       | Tamghas                                      | 45                            | Myalpokhari                       | 11                            | 10              | 3              |
| Marbhung       | Tamghas                                      | 35                            | vdc bulding                       | 0                             | 10              | 0              |
| Musikot        | Tamghas                                      | 36                            | vdc bulding                       | 0                             | 10              | 0              |
| MyalPokhari    | Tamghas                                      | 22                            | vdc bulding                       | 0                             | 10              | 0              |
| Neta           | Tamghas-Neta                                 | 57                            | vdc bulding                       | 0                             | 10              | 0              |
| Pallikot       | Birbas                                       | 3                             | vdc bulding                       | 0                             | 2               | 0              |
| Paralmi        | Tamghas to Paralmi                           | 14                            | vdc bulding                       | 0                             | 7               | 0              |
| PaudhiAmarayee | Tamgghas                                     | 36                            | vdc bulding                       | 0                             | 10              | 0              |
| Pipaldhara     | Tamghas                                      | 26                            | vdc bulding                       | 0                             | 10              | 0              |
| PurkotDaha     | Tamghas                                      | 46                            | vdc bulding                       | 0                             | 10              | 0              |
| Purtighat      | Ridhi  | 40                            | vdc bulding                       | 0                             | 10              | 0              |
| Reemuwa        | Baletasker                                   | 16                            | vdc bulding                       | 0                             | 8               | 0              |
| Resunga NP     | Resunga NP                                   | 0                             |                                   | 0                             | 0               | 0              |
| Rupakot        | Balataksar                                   | 14                            | vdc bulding                       | 0                             | 7               | 0              |
| Ruru           | Ridi   | 0                             | vdc bulding                       | 0                             | 0               | 0              |
| Shantipur      | Ridi   | 45                            | vdc bulding                       | 0                             | 10              | 0              |
| Simichaur      | Tamghas-Simichaur                            | 12                            | vdc bulding                       | 0                             | 6               | 0              |
| Sirseni        | Tamghas                                      | 27                            | vdc bulding                       | 0                             | 10              | 0              |
| Tamghas NP     | Tamghas                                      | 0                             | DHQ                               | 0                             | 0               | 0              |
| Thanpati       | Tamghas                                      | 7                             | vdc bulding                       | 0                             | 4               | 0              |
| Thulolumpek    | Ridi to thulolumpek                          | 33                            | vdc bulding                       | 0                             | 10              | 0              |
| Turang         | Balithum                                     | 8                             | vdc bulding                       | 0                             | 4               | 0              |
| Wagla          | Barbot-Wagla                                 | 12                            | vdc bulding                       | 0                             | 6               | 0              |
| Wamitaksar     | Ridhi  | 46                            | vdc bulding                       | 0                             | 10              | 0              |