

# Report Of

Profiles Of Slums/Underserved Areas Of Quetta City Of Balochistan, Pakistan July 2020

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# **Abbreviations**

AIDS	Acquired Immune Deficiency Syndrome
BCG	Bacillus Calmette-Guerin
CBV	Community Based Vaccinator
CHIP	Civil Society Human and Institutional Development Programme
CI	Confidence Interval
CSO	Civil Society Organization
CMYP	Country Multiyear Plan
CNIC	Computerized National Identity Card
DEFF	Design Effect Factor
EPI	Expanded Programme on Immunization
ESS	Effective Sample Size
GI	Gastrointestinal Diseases
GPEI	Global Polio Eradication Initiative
ILR	Ice-Lined Refrigerator
LHV	Lady Health Visitor
LHW	Lady Health Worker
MICS	Multiple Indicator Cluster Survey
OPV	Oral Polio Vaccine
PDHS	Pakistan Demographic & Health Survey
SDGs	Sustainable Development Goals
SPSS	Statistical Package for Social Science
ТВ	Tuberculosis
UC	Union Councils
UNICEF	United Nations International Children's Funds
UN HABITAT	United Nations Human Settlement Programme
WASH	Water, Sanitation and Hygiene
WCBA	Women of Child Bearing Age
WHO	World Health Organization

# Executive Summary

While global immunization coverage is increasing progressively, there is still a long way to achieve sustainable development goals in this regard. Pakistan stands 3rd in the top ten countries in the world with high numbers of under and unvaccinated children 1 .UNICEF and World Health Organization report 958000 children unvaccinated 2 in Pakistan against Diphtheria, Tetanus, and Pertussis (DTP1) as of July 2019. Within the country, there are regions and provinces with even more vulnerable children such as Balochistan with the lowest immunization rates in the country.

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An in-depth profiling of slums and underserved areas of Quetta city located in Balochistan province has been conducted to compile information on the number of slums and underserved areas, availability of Expanded Programme on Immunization (EPI) facilities and health facilities. The profiling also collected information about the types of residents, their housing structures, availability of water and sanitation facilities, schools and social welfare services.

### Box 1: Major Inequities

### Health Facilities

- 20% Union Councils are without Health Facility
- 18% Union Councils are without EPI Facility
- 64% slums/underserved areas are not covered for outreach vaccination
- 67% slums/underserved areas are not covered by Lady Health Workers

### Childhood Immunization

- 27% children have not received any antigen hence are zero dose
- 46% children have received one or two antigens hence are partially vaccinated
- 27% children are fully immunized.

### Housing

 60% housing structures are kacha (mud made) and 21% are kacha-pacca (mud/plaster mixed).

### Water and Sanitation

- 37% slums/underserved areas are without drains
- Slums/underserved areas where drains exist, 47% of them are choked/filthy

### **Education Facilities**

 47 % Slums and underserved areas do not have Schools

There are 315 slums and underserved areas located in 44% of the 50 Union Councils of Quetta city. 57% slums are not found in any of the government records. Quetta city has 2 Million population out of which 35% lives in slums and underserved areas. 13% residents of these disadvantaged areas are temporarily displaced either in the province or are of other nationalities (mostly Afghans).

In the 315 areas assessed, 60% houses are *Kacha* (non-concrete). Assessment of water and sanitation conditions reveals that the government water supply is non-existent in 85% slums and underserved areas. In terms of sanitation, it is observed that open defecation is practiced in 9% of the slums, even in areas where toilets are available. Further analysis on the status of drainage system shows that around 84% of the areas have either filthy or choked drains, or they are completely absent. 91% of these areas do not have solid waste disposal system.

Out of the 50 Union Councils, 20% Union Councils do not have any health facility. Similarly, 18% Union Councils do not have EPI facility. 64% slums/underserved areas do not have outreach vaccination services. 67% slums/underserved areas are not covered by Lady Health Workers (LHWs). 48% EPI facilities are without gender segregated waiting areas. Drinking water is not available in 48% and toilets are not available in 26% of EPI facilities. If toilets are available, they are not gender segregated in 19% of the EPI facilities.

Although informal groups such as *Masjid Committees* and *Jirgas* are present in 14% slums/underserved areas, all of the slums/underserved areas do not have any formal Civil Society Organization. 47% slums/underserved areas are without any kind of schools. 89% slums/underserved areas do not have any presence of government social welfare schemes.

For household coverage survey in this research study, a total of 1,782 households with 1,786 mothers and 1,792 children are assessed. On record and recall bases, only 27% children are fully immunized and 46% children are partially immunized. 27% of the children have not received any antigens hence are zero dosed. 43% mothers do not know importance of childhood vaccination. Card retention is found only in 35% of the children.

The report concludes that majority of the slum residents are living under extreme level of vulnerability. The housing structures are weak and access to safe sanitation and water is limited. Liquid and solid waste management services are unavailable hence surroundings in areas under study are extremely unhygienic. This leads to increased chances of disease outbreaks. The study suggests that realistic micro planning of vaccinators, deployment of community based volunteers and LHWs, and linking socio-economic wellbeing programs with coverage ones is extremely important for generating demand for health and EPI services, and achieving higher coverage rates in slums and underserved areas of Quetta City.

 $<sup>^1\,</sup>file: /\!/\!/C: /\!Users/ansaroo/Downloads/wuenic\_2018 rev\_progress-challenges.pdf$ 

<sup>&</sup>lt;sup>2</sup> https://data.unicef.org/topic/child-health/immunization/

# Chapter 1 Introduction



# Chapter 1: Introduction

Though Balochistan is the largest province of pakistan by area, population of the province is the lowest at 12.34 million<sub>3</sub> among provinces and is thinly dispersed around the province. Quetta is the provincial capital and the most urbanized city of balochistan hosting 29% of its entire urban population<sub>4</sub>.

\*\*\*\*\*\*\*\*

### 1.1 Demography

As per the National Census of 2017, population of Quetta City is 1,001,205 and population of Quetta District is 2,085,860<sup>5</sup>. Socio-economic push factors coupled with socio-political pull factors attract influx of people to Quetta from the province; rest of the country and from Afghanistan.

### 1.2 Number of Slums

There are 47 identified slum areas as per the records of the *Katchi Abadi* Directorate<sup>6</sup> in Quetta City, although the actual numbers are higher than this. These slums are mostly accompanied by temporary houses (mud houses) with substandard basic and health facilities<sup>7</sup>. The slum areas are highly populated with poor or no infrastructure<sup>8</sup>. The slum dwellers of Quetta lack access to basic resources and are living far beyond the standards laid down by the Sustainable Development Goals (SDGs).

### 1.3 Social Features

Quetta city accommodates multiple ethnic groups including *Pashtun*, *Baloch*, *Brahvi*, *Hazara* and *Punjabi* and is enriched with cultural and language diversity. The multi-dimensional poverty at headcount for Quetta stands at 46% and the Average Intensity of Deprivation is 46%, thus making poverty rate in Quetta the highest among all provincial capitals of Pakistan<sup>9</sup>. Furthermore, about 17% of the population is living below poverty line in this city<sup>10</sup>. The literacy rate stands at 66% in 15+ age group and 70% in 10+ old populations in Quetta city. However, there is a noticeable difference between overall literacy rate and the female literacy rate that stands at 46% in 15+ and 52% in 10+ populations<sup>11</sup>.

### 1.4 Situation of Health in Balochistan

Balochistan Comprehensive Development Strategy (2013-2020) reveals that the health sector of the province has extremely underperformed in the last decade. The poor performance has been attributed to financial deficit of the province.

### 1.4.1 Mother & Childcare

The detailed evaluation of the health sector of the province indicates that the biggest challenge faced by the province is related to primary and preventive healthcare specifically in the context of mother and childcare. The study shows that the percentage of deliveries in the province at designated health facilities is 26%, a figure 10% lower than the rest of the provinces. In the rural areas of Balochistan, over 80% deliveries by mothers take place at home and by untrained attendants that increase the risk of mother and child mortality.

### 1.4.2 Prenatal & Postnatal Care

The condition of prenatal and postnatal care delivery is also quite dismal for the province of Balochistan. Urban areas of Balochistan reveal only 55% cases of prenatal consultation, whereas, this figures drops further in the urban slums and for rural areas. The postnatal care reception is also poor for the province and only 31% of pregnant women in the province receive Tetanus Toxoid injections. Pertaining to these alarming statistics, the PDHS 2006-2007 reveals that the Mother Mortality Rate (MMR) was highest for Balochistan among four provinces at 785 maternal deaths per 100,000 births.

### 1.4.3 Infant Mortality Rate

According to the (MICS) report of 2010, the Infant Mortality Rate (IMR) of Balochistan is also the highest among all the other provinces of the country. IMR is reported to be 89 per 1000 live births against the SDGs target of 25 per 1000 live births.

### 1.4.4 Childhood Immunization

As per the (PSLM) results of 2010-2011the overall immunization coverage rate for Balochistan is only 45% for the children under 5 years of age when compared to Punjab (86%), Khyber Pakhtunkhwa (77%) and

 $<sup>^3\</sup> http://www.pbs.gov.pk/content/provisional-summary-results-6th-population-and-housing-census-2017-0$ 

<sup>&</sup>lt;sup>4</sup> State of Pakistani Cities, 2008

<sup>&</sup>lt;sup>5</sup> See #3

<sup>&</sup>lt;sup>6</sup> Qutub, S.A.; Salam, N.; Shah, K. and Anjum D. (2008). Community-based sanitation for urban poor: the case of Quetta, Pakistan

<sup>&</sup>lt;sup>7</sup> Growth of slum areas on rise in Baochistan. Pakistan Economist, Sep 11, 2017.

<sup>&</sup>lt;sup>8</sup> Huma Batool.; Mega cities And Climate Change Sustainable Cities in a Changing World. LEAD Pakistan.

<sup>9</sup> http://www.pk.undp.org/content/dam/pakistan/docs/MPI/MPI%204pager.pdf

<sup>&</sup>lt;sup>10</sup> Geography of Poverty and Public Service Delivery in Pakistan. Research Brief April 2017, Pakistan Poverty Alleviation Fund

<sup>11</sup> http://emis.gob.pk/Uploads/QUETTA%20DISTRICT%20EDUCATION%20PLAN%20FOR%202016-2017%20TO%202020-2021.pdf

Sindh (67%). When checked for Bacillus Calmette-Guerin (BCG) coverage of the province, the results reveal that the coverage for 12-23 months of children is only 35%, Polio 1 has been administered to 61% of the children, a figure that dipped to 46% for Polio 3 (MICS, 2010).

<del>\*\*\*\*\*\*\*\*</del>

### 1.4.5 Polio Epidemic

Recently polio epidemic has remerged in Pakistan. As per the report by Independent Monitoring Board of the Global Polio Eradication Initiative (GPEI), for Balochistan, majority of the cases for Balochistan occurs in three major areas: Pishin, Killa Abdullah and Quetta.

### 1.5 Status of Healthcare in Quetta

Comprehensive Multi Year Plan (CMYP) Balochistan 2014-2018 depicts acute shortage of health personnel in Quetta<sup>12</sup>. Among the most common diseases reported by the health facilities are Respiratory Tract Infections, Gastrointestinal, Urinary Tract Infection and Diarrhea/ Dysentery, whereas other communicable diseases include Malaria, Meningitis, Fever and Scabies<sup>13</sup>. To address the health needs, there are 07 health programmes that are running in Quetta city, namely: TB (Tuberculosis) Control Programme, Malaria Control Programme, Hepatitis Prevention Control Programme, AIDS (Acquired Immune Deficiency Syndrome) Control Programme, National Programme on Family Planning and Primary Healthcare, and National, Maternal, Newborn & Child Healthcare Programme<sup>14</sup>.

### 1.6 Diseases and Mortality Rates

The prevalence of water-borne disease indicates 44% of the households are affected by Diarrhea, 25% by Gastrointestinal (GI), 21% by Cholera, 5% by Typhoid and 3% by other common diseases<sup>15</sup>. As for the status on child health, it is reported that for every 1,000 live births, 59 babies do not survive up to their first birthday and another 12 die before reaching the age of 5 years<sup>16</sup>.

### 1.7 Infrastructure

The housing structures accommodating over 800,000 residents of Quetta lack the facilities and infrastructure for adequate drainage and sanitation<sup>17</sup>. While the situation of disposal and drainage of wastewater in the city remains poor, drainage system in the slums is almost non-existent<sup>18</sup>. Safe water is available to only 39% of the households<sup>19</sup>. Water is found to be scarce due to which a majority of residents end up paying private vendors for their water-supply<sup>20</sup>. To assess the quality of consumable water, a study was conducted in 16 different locations of Quetta, which revealed high contamination in tap water owed to the seepage and leakage of the water supply and sewer lines<sup>21</sup>. Furthermore, fecal contamination of drinking water is known to cause 30% of all diseases<sup>22</sup>.

### 1.8 Major Challenges

Major challenges of Quetta city are exponential growth-rate, lack of resources and city planning for managing a large influx of economic migrants and those affected by natural disasters or conflict. Poor access to health and Expanded Programme on Immunization (EPI) services, lack of safe water and almost non-existent drainage system also pose serious health risks as cited by different researchers.

### 1.9 Objectives

The general objective of this study was to prepare the in-depth profiling of slums and underserved areas located within the Quetta city of Balochistan province in Pakistan. The specific objectives of this study were to:

- a. To collect the socio-demographic information of the residents of slums and underserved areas
- b. To assess the fixed EPI facilities located in the slums and underserved areas
- c. To compile the data of health and EPI recourses at the union councils level
- d. To determine the childhood immunization coverage rates in the slums and underserved areas

<sup>&</sup>lt;sup>12</sup> Comprehensive multi-year plan 2014-2018. Islamabad, Expanded Programme on Immunization, Balochistan

<sup>13</sup> http://www.ndma.gov.pk/Publications/Development%20Profile%20District%20Quetta.pd

http://www.ndma.gov.pk/Publications/Development%20Profile%20District%20Quetta.pd
 Butt, M., & Khair, S. M. (2016). Cost of illness of water-borne diseases: a case study of Quetta. Journal of applied and emerging sciences, 5(2), pp133-143

http://www.ndma.gov.pk/Publications/Development%20Profile%20District%20Quetta.pdf

<sup>&</sup>lt;sup>17</sup> Urbanization Challenges in Balochistan, 2015. Pakistan Urban Forum, The Urban Unit

<sup>18</sup> http://www.balochistan.gov.pk/index.php?option=com\_content&view=article&id=839&Itemid=1087

<sup>&</sup>lt;sup>19</sup> Pakistan Economist

<sup>&</sup>lt;sup>20</sup> State of Pakistani Cities, 2018

<sup>&</sup>lt;sup>21</sup> Khattak M I. (2011). Study of Common Inorganic Anions in Water Samples of Quetta City By Technique Of Ion Chromatography. Sci.Int. (Lahore).23(2):135–141.

<sup>&</sup>lt;sup>22</sup> Aziz J A. (2005). Management of source and drinking-water quality in Pakistan. Eastern Mediterranean Health Journal. 11(5-6):1087–98

### 1.10 Rationale

The review of literature reveals that the data on housing infrastructures, water and sanitation practices and immunization status of children in slum areas is limited. Therefore, this study was designed and conducted for the following reasons:

- There is no comprehensive report or tangible dataset available specifically for slums/underserved areas. The studies are carried out in one specific slum or a few sampled slums and are not a true representation of inequities prevalent in all slums. Moreover, existing studies rely on outdated or nationally non-representative datasets, bringing the validity of research in question;
- The cities are growing very fast and are most popular for urban migration. Systematically collected scientific data on geographical scale, locations and population of slums is not only essential to inform policy-makers for needed interventions. ;
- The available literature does not have comprehensive information about the scale and situation of slums/ underserved areas;
- A comprehensive list and profile of slums is not available which would inform planners about the geographical scale, locations and population of slums;
- Additionally, it is not clear whether people living in slums which are not considered legal/registered/regularized in the records of relevant public departments were included in the National Census or not. The current resource allocations and provision of public services is decided according to the available information hence do not cater slums which are not recognised officially;
- No secondary dataset is available which provides a complete picture of the status of health and
  immunization practices in slums and underserved areas. Although some studies mention a few reasons
  for zero-dose and unimmunized children, an extensive approach on the pattern of coverage survey has
  not been adopted by any of the studies to understand the reasons for under-immunization. An extensive
  understanding of slum lifestyle and their socioeconomic conditions is to be undertaken to draft and
  implement better immunization-related policies;
- Coverage surveys have never been undertaken in slums hence status of immunization was never known for realistic planning and resource allocation.
- The micro plans of vaccinators and LHWs are prepared based on targets only and do not include specific coverage of slums. The comprehensive data on slums/underserved areas would help in setting up realistic targets for slums/underserved areas.
- Action plans for improvement of vaccination and general health conditions in slums/underserved areas would become possible.
- There is little or no data available on the role of private and not-for-profit sector on the kind of
  interventions undertaken by these sectors for the urban poor. The potential for these sectors to provide
  for the urban poor has not yet been explore



# Chapter 2 Methodology



# Chapter 2: Methodology

This part describes the detailed methodology adopted for the profiling of slums / underserved areas. This methodology was designed in close consultation with the UNICEF Pakistan Country Office, UNICEF Pakistan Field Office and Provincial Expanded Programme on Immunization (EPI) Cell. The process was made participatory and engaging for having community driven perspectives. Triangulation, validation and supportive monitoring were adopted as the key principles and formed the backbone of the entire process. The methodology was finalized according to the security situation and local context.

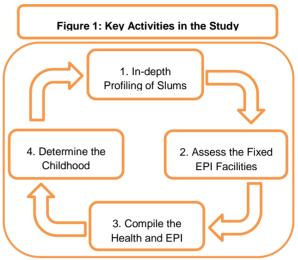
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## 2.1 Study Design

This was a cross-sectional study undertaken to prepare the in-depth profiling of slums / underserved areas. The following four key activities were conducted for the purpose of this study (Figure.1).

### 2.2 Study Sites

The study was conducted in the slums / underserved areas located in the city and its periphery. The administrative structure of Pakistan distributes the country into four provinces and Islamabad, Azad Kashmir and Gilgit Baltistan as federally administered areas. The provinces are further distributed into districts. Each district is distributed into multiple towns (*tehsils*), which are further distributed into union councils. Each union council has 5 to 15



villages/areas depending on the context and rural/urban settings in each province. Previously, the performance of the country used to be assessed either at the provincial level and or at the district level. Gradually it has been realized that the performance needs to be monitored at the administrative unit level, which is union council. Each union council has a union council office, which is headed by the Secretary. The Secretary gets certain resources for the development of villages/areas for that particular union council. The resources of each union council have direct correlations with the performance outputs of that particular union council.

### 2.3 Study Duration

This study was conducted between 2018 and 2019 with different intervals.

### 2.4 Study Respondents

For the purpose of this study, four key activities were conducted and each activity had different respondents.

Activities	Study Respondents	Study Instruments
In-depth profiling of slums and underserved areas	Residents of slums / underserved areas	A. Questionnaire for Group Discussion in Slums / Underserved Areas
Assess the fixed EPI facilities	In-charge of EPI facilities	B. Questionnaire for EPI Facility Assessment
Compile the health and EPI recourses data at union council levels	District Health Officer, District EPI Coordinator and District Supervisor Vaccination or their nominees for providing official information on health and EPI resources	C. Questionnaire for District or Town Health Office
Determine the childhood immunization coverage rates	Mothers of the children aged between 12 and 23 months	D. Questionnaire for Household Coverage Survey

### 2.5 Sampling Procedures and Sample Size

### Activities 1: In-depth profiling of slums and underserved areas

Slums/underserved areas form a major portion of the largest cities' population. Consolidated information about the names, addresses and population sizes of slum / underserved areas were not available for realistic planning and extension of the health and EPI services. In order to identify the locations and scale of slums/underserved areas, to know the approximate size of target population and to prepare basic characteristics of these locations, their holistic profiles were prepared.

**Step 1: Desk Research**: For the purpose of this activity, initially extensive desk research were carried out by the study team. The purpose was to understand the different dynamics of the urban poor living in the five largest cities of Pakistan. These conditions were assessed by gathering the literature retrieved from search engines on internet, academic research journals, and policy papers on slums / underserved areas.

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**Step 2: Verification of the Study Areas:** As there was no data (i.e. listing) available on the slums / underserved areas, the study team visited and physically verified these areas.

**Step 3: Interactive Group Discussions:** Once these areas were verified and listed by the study team, the process of collecting socio-demographic information of the residents of slums and underserved areas were started through interactive group discussions. The study team conducted one group discussion from each union council located in the slums and underserved areas.

**Sampling Method:** A convenience sampling method was used for the purpose of interactive group discussions among the residents of slums and underserved areas. This was done because of the following three key reasons:

- A. There were no lists or records of the households. The lists of households prepared by Community Based Vaccinators (CBVs) did not differentiate between the slums and non-slums areas
- B. The security situations and general hostility as well as unwillingness to share information rendered a simple random sampling nearly improbable
- C. Considered to be close knit communities, slums represent wide information sharing networks. Therefore estimates by these informants were deemed to be close to accurate through cross-validation

**Sample Size:** One group discussion was conducted in each slum and underserved area. Three to five respondents were selected based on inclusion and exclusion criteria for the interactive group discussions.

**Inclusion and Exclusion Criteria:** Following criteria were designed and adopted for the purpose of identifying the respondents for these interactive group discussions.

Inclusion Criteria	Exclusion Criteria
A. Resident of either slum or underserved area which was to be profiled	A. Not the resident of either slum or underserved area     which was to be profiled
B. Have been living there for more than two years	B. Have been living there for less than two years
C. Have knowledge about physical infrastructure and other facilities of that particular area	C. No knowledge about the physical infrastructure and other facilities available in the area

### Activities 2: Assess the fixed EPI facilities

The overall objectives of the assessment of fixed EPI facilities were to know the strengths and weaknesses of the service delivery system and to analyse correlations between coverage rates and strengths and weakness of the system.

**Step 1: Obtaining the list of fixed EPI facilities:** The study team obtained the list of all fixed EPI facilities from the department of health authorities.

**Step 2: Assessment of fixed EPI facilities:** Once the lists were obtained, fixed EPI facilities were physically visited by the study team for assessment.

No sampling method was used for this activity. All listed fixed EPI facilities (i.e. 228) were physically visited and assessed by the study team.

### Activities 3: Compile the health and EPI recourses data

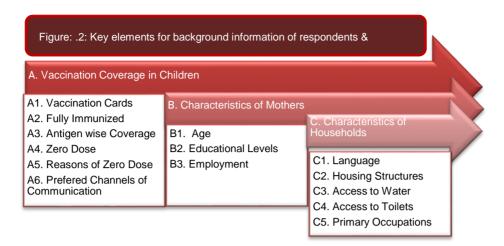
**Step 1: Obtaining data of health and EPI resources:** The data of health and EPI resources available at the union council's level were collected from the department of health. The study team used 'Questionnaire for District or Town Health Office' for this purpose.

**Step 2: Triangulation of Data:** This data was triangulated with the information collected from the residents of slums and underserved areas through interactive group discussions (activity 1).

No sampling method was used and data on the key variables (section 2.6) were collected by the study team through study instrument.

### Activities 4: Determine the childhood immunization coverage rates

The coverage survey was conducted to determine the childhood immunization rates by the study team. This background information about the households and respondents were also collected (Figure 2).



The correlations of these broader categories i.e. i). Vaccination coverage in children, ii). Characteristics of the mothers, and iii). Vaccination coverage of the children were undertaken to comprehend the real reasons of high / low or no coverage rates in the slums and underserved areas.

**Step 1: Sampling Methodology:** This was conducted according to the methodology of World Health Organization (WHO). The following six points were utilized in calculating the sample size for this coverage survey.

- 1. Penta 3 coverage rates from 3rd party sources
- 2. Effective Sample Size (ESS)
- 3. Design Effect Factor (DEFF)
- 4. Estimation of number of children aged between 12 and 23 months
- 5. Calculation of inflation or no response
- 6. Steps for determining sample size and cluster
  - 1. Penta 3 Coverage Rates: The city was taken as an independent stratum and Multiple Indicator Cluster Survey Balochistan 2010 was used for using Penta 3 coverage rates. 50% coverage rate for Penta 3 was taken as a basis for calculating sample size.
- 2. Calculation of Effective Sample Size: ESS was determined through expected coverage and desired precision level was set at 95 percent Confidence Interval (CI) as per Table B 1, Page 118, WHO reference manual.
- **3. Design Effect Factor:** Post measles campaign design effect factor 6.4 calculated for the 3rd party survey 2018 was utilized as a basis for calculating the sample size.
- **4. Estimation of Number of Children Aged between 12 and 23 Months:** The number of children aged between 12 and 23 months were determined by using the 3.5 percent of the total population are children between 0 and 1 year and 3.5 percent are between 1 and 2 years. The estimation of the number of 12-23 months old children was calculated as follows:
  - = Percentage of 12 23 months children in 100 household
  - = 100 / 3 / 6.5
  - = 5
  - = This means that from every 5<sup>th</sup> to 6<sup>th</sup> house one child will be available
  - = If the required # of children were not available in a cluster, new clusters were included and existing cluster was stopped.
- **5. Calculation of Inflation or No Response:** Inflation or No Response factor from households was calculated by using the following formula mentioned in WHO manual. This factor is usually intended to include additional houses in case a child is not available at a set interval or has refused to participate. In order to overcome this, additional houses were also listed and profiled. The inflation or no-response factor was calculated as follows:

No Response = 
$$100 / 100 - P$$
 (Household Did not Respond)  
=  $100 / 100-5$   
=  $1.05$ 

**6. Calculation of Sample Size and Clusters:** Calculation of sample size was done once the DEFF and ESS, including No Response Inflation factor were all set. The following steps were undertaken to ascertain the sample-size:

### Total Completed Interviews

= # of strata X ESS target from table B of WHO guidelines X DEFF<sup>23</sup>

### Total Households to be visited to get the Target # of Households to be interviewed

= ESS X DEFF X household to find a child X no response inflation factor

### Number of Households to Visit per Strata

= ESS X DEFF X household to find a child X no response inflation factor

### Number of Clusters

= ESS X DEFF / Household to be interviewed per cluster

### Total Households to Visit per Cluster

= Household to find a child X no response inflation factor X household to be interviewed per cluster.

### **Step 2: Sampling Procedure:**

The slum was taken as a cluster. The following steps were undertaken during survey taking:

- 1. The city-wise lists of slums located in all urban towns were organized in an ascending order on the basis of population
- 2. The random number for selecting slum was calculated by dividing the total slums by total clusters
- 3. After knowing the random number e.g. 2 or 3 or 4 or 5, every 2<sup>nd</sup>-5<sup>th</sup> slum of each town was picked up for mapping and listing
- 4. Maps were prepared for each selected slum (cluster). The buildings including government schools were numbered and marked. Maps of the areas/clusters/slums were prepared and residential buildings were marked for the listing of the households
- 5. Then by throwing a pencil on the map, the residential block was selected randomly
- 6. The selected block was listed and number of children were also listed
- 7. A list of minimum 80 to 150 houses was prepared
- 8. The total listed households were divided by 15 to calculate the random number for selecting a household for checking availability of children
- 9. Listed households with the final random number were picked for interview

In case of unavailability of 15 children in a cluster, additional clusters were added

### 2.6 Key Variables

Table 2: Key Variables in the Study **Key Variables** Activities In-depth profiling of slums and 1. Slums and Underserved Areas underserved areas 2. Demography 3. Health and EPI Resources 4. Infrastructure 5. Social Welfare Services Assess the fixed EPI facilities 1. Infrastructures 2. System 3. Management and Facilities 4. Equipment and Supplies 5. Waste Management 6. Human Resources Compile the health and EPI recourses 1. Administrative Layout data 2. Healthcare Facilities 3. Equipment and Supplies 4. Human Resources 5. Nutrition Services Determine the childhood immunization 1. Vaccination Coverage coverage rates 2. Characteristics of the Mothers 3. Characteristics of the Households 4. Characteristics of Fully Immunized Vs. Zero Dose Children

10

<sup>&</sup>lt;sup>23</sup> Taken from Post Measles Campaign Analysis by WHO

### 2.7 Data Collection Instruments

The data collection instruments were designed by the senior investigators and finalized in consultation with the UNICEF Pakistan officials. The instruments were pre-tested in order to ensure the consistency, appropriateness of language and sequencing of the questions. Based on the feedback from the pre-testing, the instruments were modified and rephrased, where necessary. These data collection instruments were not only translated into local languages but also culturally adopted, where necessary. All study instruments are attached in annexures.

<del>\*</del>

### 2.8 Operational Definitions

The operational definitions were defined based on the desk reviews as well as discussions with the health authorities.

### 2.8.1 Slums

The definition of slums was reviewed from UN Habitat, *Kachi Abadi* Cell, Town Municipal Offices and Offices of Development Authority. Slums are a contiguous settlement where the inhabitants are characterized as having inadequate housing and basic services. A slum is often not recognized and addressed by the public authorities as an integral or equal part of the city. According to UN Habitat, the generic definition of a slum suggests that it is:

...a contiguous settlement where the inhabitants are characterized as having inadequate housing and basic services. A slum is often not recognized and addressed by the public authorities as an integral or equal part of the city (UN Habitat, 2010, p. 13<sup>24</sup>).

Similarly, a slum household is defined as a group of individuals who live under the same roof that lacks one or more<sup>25</sup> of the following conditions:

- Limited access to improved water and sanitation
- Weak housing structures
- Insufficient living area
- Uncertain about legal ownership of the residential area

### 2.8.2 Peri-Urban Slums

Slums located at the periphery of urban areas that join the borders of cities and rural areas.

### 2.8.3 Legal Status

Concerned government department recognizes slums as either registered or regularized officially. Documentary evidence such as electricity bill or Computerized National Identity Card (CNIC) shows the address.

### 2.8.4 Underserved Areas

Underserved Areas includes both planned residential areas with *majority of the plastered housing structures*. Underserved areas have one or more of the following conditions:

· Low immunisation coverage or

High number of refusal

### 2.8.5 Expanded Programme on Immunization

Expanded Programme on Immunization of the government of Pakistan for children and women of child-bearing age.

### 2.8.6 Outreach Vaccination

Within remote and inaccessible areas where EPI or healthcare facilities have difficult access or do not exist, an outreach vaccinator covers the area through house to house visits.

### 2.8.7 Ice Lined Refrigerators

Ice Lined Refrigerator (ILR) for maintaining a particular temperature required for storage of vaccines.

<sup>&</sup>lt;sup>24</sup> UN Habitat (2010), The Challenge of Slums: Global Report on Human Settlements 2003

<sup>&</sup>lt;sup>25</sup> This definition may be locally adapted for where some factors may be similar between the slums and majority of the society (UN Habitat).

### 2.8.8 Kacha Housing Structure

All walls and ceilings are made of mud, straws, bamboos or material other than cement, concrete and iron and are vulnerable to damage due to excessive rains, floods or earthquake etc.

\*\*\*\*

### 2.8.9 Pacca Housing Structure

All walls and ceilings are made of cement, concrete and iron.

### 2.8.10 Kacha-Pacca Housing Structure

Walls are made of concrete and iron while ceiling is made of mud, straw or bamboo or vice versa.

### 2.8.11 Antigen

A liquid medicine, which develops immunity in the body of an individual.

### 2.8.12 Fully Immunized

Children aged between 12 and 23 months who have completed vaccination of all doses starting from BCG-OPV0, Penta 1, Penta 2, Penta 3, and Measles-1.

### 2.8.13 Partially Vaccinated

Children aged between 12 and 23 months who have received some doses of vaccination but could not complete it according to age wise requirements.

### 2.8.14 Defaulter

Any child aged between 12 and 23 months who has received BCG+OPV0 and Penta 1 and Penta 2 but did not receive Penta 3 or Measles-1.

### 2.8.15 Zero Dose

Children aged between 12 and 23 months who have not received any doses of vaccines including polio, which may protect children from vaccine preventable diseases.

### 2.8.16 Records

Under two years of children whose vaccination cards containing record of their age wise doses administered are available in readable condition for any confirmation

### 2.8.17 Recall

Under two years of children whose record of vaccination is not presented on any paper or card at the time of the survey and mother shares the vaccination status based on her memory or recall.

### 2.8.18 Vaccine Preventable Diseases

The vaccine preventable diseases for children aged between 0 and 23 months are prevented through offering basic vaccination. The names of these diseases are Childhood Tuberculosis, Poliomyelitis, Rotavirus Diarrhea, Pneumonia, Diphtheria, Pertussis (Whooping Cough), Tetanus, Hepatitis B (Hep B), Haemophilus Influenza type b (Hib) and Measles.

### 2.8.19 Antigens as part of Basic Vaccine

The following antigens are administered to children aged between 0 and 15 months old with different age intervals:

Table 3: Vaccination Schedule					
1 <sup>st</sup> Dose	2 <sup>nd</sup> Dose	3 <sup>rd</sup> Dose	4 <sup>th</sup> Dose	5 <sup>th</sup> Dose	6 <sup>th</sup> Dose
Immediately After Birth	6 Weeks	10 Weeks	14 Weeks	9 Months	15 Months
BCG+OPV0	OPV 1, Rota 1, Pneumococcal Conjugate Vaccine (PCV) 1, Penta 1	OPV 2, Rota 2, PCV 2, Penta 2	OPV 3, Rota 3, PCV 3, Penta 3	Measles-1	Measles-2

### 2.9 Data Analysis Techniques

Systematic approach was adopted for cleaning, and verification and further entering of data in excel sheets as per the variables defined for this study. The data was analyzed by the Data Manager in Statistical Package for Social Sciences (SPSS) and Statistics and Data (STATA). The processed data is interpreted through tabular and graphical presentation required for quantitative analysis. The data of slums was segregated in the following categories.

Categories	Size	Housing Structure	Legal Status	Facilities	Location
Category A	More than 60 households	Mostly <i>Kacha</i> /mud made/Tented	Mostly illegal	No solid/liquid waste management system No government water supply	Mostly under the bridge, near river, railway station and any empty land within the city
Category B	Less than 60 households	Mostly <i>Kacha</i> /mud made/Tented	Mostly Illegal	No solid/liquid waste management system No government water supply	Surrounded by big houses
Category C	More than 60 households	Mostly <i>Paccal</i> Plastered	Mostly legal	Mostly garbage management system and drains exist	Mostly upgraded from slums or housing societies or extension of towns
Category D	More than 100 households	Mostly un- plastered	Mostly legal	No solid/liquid waste management system No government water supply	Originally rural area but gradually became part of the city hence located at the periphery of the city

### 2.10 Monitoring Mechanism

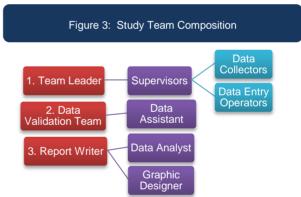
For the purpose of this study, timely review and rigorous monitoring system was put in place to ensure there were no detractions. This included engagement of a full-time team dedicated to holding surveys and field visits, timely submission of data, physical verification and further cleaning process of the data, and assignment for each team member. The monitoring ensured the following:

- Verification of data either through telephonic correspondence or physical on-field visits
- Supportive supervision and daily review of field performance
- Trouble shooting in case of problems
- Review of survey forms to ensure that no information was missed or fake or contradictory

### 2.11 Study Team and Training

A three-tiered teams were engaged in in-depth profiling of slums and underserved areas, assessment of fixed EPI facilities in slums and underserved areas, compilation of health and EPI resources data of union councils and childhood vaccination coverage in slums / underserved areas.

The first tier of team comprised of a team leader, survey supervisors and data collectors. The team leader provided overall guidelines and end-to-end management of the process. supervisors extended supportive supervision and monitoring of the data collection and ensured quality standards while surveyors collected the data from the through physical visits, discussions and individual interviews.



The 2nd tier of the team consisted of data validation, cleaning, entry and analysis.

The 3rd tier of the team comprised report writers responsible for undertaking desk researches and interpreting the results in an effective manner.

The training of study teams was conducted by the professionals prior to commencing data collection activities that includes study objectives, basic concepts on healthcare and immunization services, data collection, ethical considerations as well as confidentiality. In addition, they were trained on data entry processes (i.e. validation and cleaning before their final consolidation).

# Chapter 3 Profile of Slums & Underserved Areas

# Why Shall I Risk Putting My Children Into Danger?

Hadia, age 32 years, lives in the slum of badal khan rand kachi abadi (uc shadanzai, chilton town, uetta) with her family. Her household has 30 family members with 9 males and 21 females. Hadia's family has been living there for the last 30 years in a two bedroom mud hose with only one toilet available for the entire family. Her father, hashim kareem, is a daily wage earner and struggles to provide even enough food for the family. Sometimes they have to borrow to meet their ends. hadia's mother, 34, is a housewife and is illiterate. While talking about vaccination, she mentioned that lady health visitors visit them and have had serious conversations with her husband. She referred that her husband is aware of their agenda and would not allow children to be vaccinated. She believed that the vaccines would cause diseases particularly infertility, and thereby would not risk her children's health by administering vaccines.

# Chapter 3: Profile of Slums & Underserved Areas

Slums and underserved areas form a major portion of the largest cities' population. Consolidated information about names, addresses and population sizes of these areas are unavailable for realistic planning and extension of health and EPI services. To date, no country has conducted profiling of slums to determine target population and to subsequently carry out targeted coverage enhancement programmes. In order to identify the locations and scale of slums and underserved areas, to know the approximate size of target population and to prepare basic characteristics of these location, their holistic profiles are being prepared. This chapter presents profile of slums and underserved areas of Quetta, the capital city of Balochistan. The profile is presented around the following five broader categories:

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### 3.1 Slums/Underserved Areas

- 3.1.1 Union Councils With/Without Slums/Underserved Areas
- 3.1.2 Number of Slums/Underserved Areas
- 3.1.3 Timelines of Existence
- 3.1.4 Legal Status

### 3.2 Demography

- 3.2.1 Population
- 3.2.2 Types of Residents

### 3.3 Health & EPI Resources

- 3.3.1 Health Facilities
- 3.3.2 EPI Facilities
- 3.3.3 Outreach Vaccination
- 3.3.4 Health Workers
- 3.3.5 Emergency Health Services

### 3.4 Infrastructure

- 3.4.1 Housing Structures
- 3.4.2 Household Toilets
- 3.4.3 Domestic Water
- 3.4.4 Waste Management

## 3.5 Social Welfare

- 3.5.1 Schools
- 3.5.2 Civil Society Organizations
- 3.5.3 Informal Groups
- 3.5.4 Social Welfare Schemes



The profiles of slums and underserved areas according to each of the above variables are presented below:

### 3.1 Slums/Underserved Areas

### 3.1.1 Union Councils with/without Slums/Underserved Areas

Quetta City is administratively distributed into 2 towns and 50 UCs. 44% of the UCs contains slums or underserved areas. 56% UCs are without any slums or underserved areas.

Table 5:	Number of Slums and Underserved Areas					
Towns	Slums		Underserved		Total	
	# %		#	%	#	%
Chiltan	197	70%	6	18%	203	64%
Zargoon	84	30%	28	82%	112	36%
Total	281	100%	34	100%	315	100%

### 3.1.2 Slums/Underserved Areas

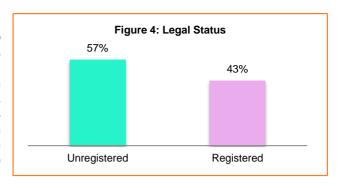
Overall, there are 281 slums and 34 Underserved areas in 44% UCs. These slums and underserved areas vary in their size by area and population density.

### 3.1.3 Timelines of Existence

Slum establishment is low at 9% before 1950; whereas it has been highest at 62% between the periods of 1950-1990. The development of new slums reduced to 20% during the period 1991-2005 followed by only 9% increase after 2005. (Table 2 Annex 5)

### 3.1.4 Legal Status

57% slums are unregistered and thus ineligible to have official resource allocations for public services such as health, education, water and sanitation etc. whereas another 43% are registered and are in possession of supporting documents as evidence<sup>26</sup>. The population residing in these unregistered slums is 633.508 which is 44% of the total population residing in slums/underserved areas (712,404) in The quality of life in most of these unregistered slums is characterised by poor housing.



#### 3.2 Demography

### 3.2.1 Population **Population**

population of slums/ underserved The approximately 0.7 million, with a higher population share of people residing in slums (89%) than underserved areas. The children aged 0-11 months are 22,939 and children under 5 years of age are 121,108 while 156,729 women are of child bearing age.

Table 6: Population in Slums/ Underserved Areas						
Slums		Unders	served	Total		
<b>633,508</b> 100%		78,896	100%	712,404	100%	
Population of 0-11 Months (3.5% and 92% Survival)						
20,399	100%	2,540	100%	22,939	100%	
Population under 5 Years (17%)						
107,696	100%	13,412	100%	121,108	100%	
Population of Child Bearing Age Women (22%)						
139,372	100%	17,357	100%	156,729	100%	

### 3.2.2 Types of Residents

Overall, 87% residents of slums/underserved areas are permanent settlers of their localities; whereas, 7% are either temporarily displaced and 5% belong to other Nationalities. Underserved have greater number of temporary displaced and families belonging to other Nationalities.

Table 7: Types of Residents						
Areas	Permanent	Temporary	Other			
	residents	Displaced	Nationality			
Slums	88%	7%	5%			
Underserved	76%	8%	16%			
Total	87%	7%	6%			

#### 3.3 Health Resources

#### Health Facilities 3.3.1

20% UCs do not have public health facilities. Although 80% of UCs do have public health facilities, only 5% residents of slums report presence of Public health facilities within 2 kilometres access. In addition, 1% residents of

Table 8: UCs with/without Health Facilities				
UCs with Health Facilities	UCs without Health Facilities			
80%	20%			

slums report access to private health facilities within 2 kilometres access. (Table 8c Annex 5)

## 3.3.2 EPI Facilities

18% UCs do not have EPI facilities. Although 82% UCs have EPI facilities, it is interesting to note that only 6% residents of slums and 3% residents of underserved areas report the presence of EPI facilities within 2 kilometres access. (Table 10a, Table 10b Annex 5)

Table 9: UCs with/without EPI Facilities				
UCs with EPI Facilities	UCs without EPI Facilities			
82%	18%			

### 3.3.3 Outreach Vaccination

Outreach vaccination services are available in only slums/underserved areas. underserved areas (65%) are without outreach as compared to slums 64%.

Table 10: With/without Outreach Vaccination				
Areas	With	Without		
	Outreach	Outreach		
Slums	36%	64%		
Underserved	35%	65%		
Total	36%	64%		

<sup>26</sup> Residents of these slums presented their utility bills that they were charged against the government run electricity service etc. This implies that there is some level of recognition by the local authorities if not in full fledge official terms.

### 3.3.4 Health Workers

### 3.3.4a) Lady Health Workers

LHWs do not extend their services in 67% slums/ underserved areas. Slums/ underserved areas where LHWs extend their services, majority of them raise awareness on childhood vaccination, prenatal

Table 11: LHW Works/Not Works		
Areas	Works	Not Works
Slums	33%	67%
Underserved	32%	68%
Total	33%	67%

care and maternal and child healthcare. The study also found that emergency health services and dengue workers are not available in slums and underserved of Quetta city.

### 3.4 Infrastructure

### 3.4.1 Housing Structures

Only 19% of the houses are Pacca/concrete with 93% Pacca housing structures in underserved areas in comparison to 12% slums having Pacca housing structures. The percentage of *Kacha* 

Table 12: Housing Structures				
Areas	Kacha	Kacha-Pacca	Pacca	Total
Slums	66%	22%	12%	100%
Underserved	0%	7%	93%	100%
Total	60%	21%	19%	100%

houses is higher in slums (66%) as compared to underserved areas where no *kacha* structures exist. A similar pattern is found for *Kacha-Pacca* (mixed) structures where slums have higher percentage (22%) as compared to underserved areas (7%). The sizes of houses in the cases of majority of *Kacha* houses are very small and comprise of one room only for the entire family. The cooking places are also part of the one room accommodation.

### 3.4.2 Household Toilets

Two types of household level toilets were found in the research study area i.e. traditional/open pit and toilets connected with street drain. Greater percentage of slums (87%) has traditional/open pit toilets compared to underserved areas (79%). Areas where toilets are found, majority of them are choked or filthy. Surveyors discovered that on an average, 9 persons use a single toilet in slums. (Table 20a Annex 5)

Areas	Traditional Latrine/Open Pit	Connected with Street Drain	Total
Slums	88%	12%	100%
Underserved	79%	21%	100%
Total	87%	13%	100%

Although 5% slums/underserved areas do not have toilets at the household level but the 8% residents of slums/underserved areas practice open defecation. The residents of slums practicing open defection are greater (9%) compa

Table 14: Open Defecation Practices			
Status	Slums	Underserved	Total
No Toilets	5%	6%	5%
Open Defection	9%	0%	8%

practicing open defection are greater (9%) compared to (0%) of underserved areas. (Table 21a, Table 21b Annex 5)

### 3.4.3 Domestic Water

85% of slums/ underserved areas do not have access to government water system and thus rely on other sources of water. A higher percentage of slums (88%) do not have government water supply connection as compared to underserved

Table 15: Sources of Domestic Water			
Status	Slums	Underserved	Total
Government Water Supply	12%	35%	15%
Ground Water	27%	12%	26%
Acquire from other sources of water	61%	53%	59%

areas (65%). Slums/underserved areas where government water supply is installed, residants face shortage of water availablity and only 15% residents have water availablity for 5 hours in a day. (Table 17c Annex 5)

A higher percentage of slums/underserved (59%) do not have ground water availability and acquire water from different sources. The quality of domestic water is questionable as the containers used for domestic waster storage were found to be dirty and contaminated.

### 3.4.4 Waste Management

## 3.3.4a) Liquid Waste

For liquid waste management, 84% slums/ underserved areas either do not have any drains or have choked and filthy drains. The percentage of filthy and choked drains is higher in underserved areas 53% in comparison to slums (47%).

Table 16: Liquid Waste Management				
Areas	No Drains	Drains Filthy/Chok ed	Drains have Running Water	Total
Slums	40%	47%	14%	100%
Underserved	15%	53%	32%	100%
Total	37%	47%	16%	100%

### 3.3.4b) Solid Waste

Only 7% slums/underserved areas have waste pick up facility by the government, while 91% throw waste on empty plots/streets. A small percentage of slums/underserved areas have their own system which includes burning/burying of the waste. The percentage of slums which throw waste on empty

Table 17: Solid Waste Management				
Areas	Thrown on Empty Plots/Streets	Govt System	Self- System	Total
Slums	93%	5%%	2%	100%
Underserved	76%	24%	0%	100%
Total	91%	7%	2%	100%

plots/streets is greater than underserved areas. Such insanitary conditions facilitate breeding of mosquitoes. People exposed to such poor sanitary conditions are more likely to suffer from diarrhoea, typhoid and dengue.

#### 3.5 Social Welfare

#### 3.5.1 Schools

Overall 47% slums/underserved areas are without schools. Greater number of slums (48%) is without schools compared to underserved areas (32%). Majority of these schools in slums/underserved areas are located within 2-kilometre radius from the centre of the slum or underserved area.

There are a total of 265 educational institutions in
281 slums. The largest proportion of schools is
government (75%) run followed by
Maktab/Madrasah (52%) and private schools
(50%). 6% of the school accounts for the
welfare/trust managed set ups.

Table 18: Schools				
Areas	Schools Available	Schools Not Available	Total	
Slums	52%	48%	100%	
Underserved	68%	32%	100%	
Total	53%	47%	100%	

Table 19: Types of Schools			
Areas	Slums	Underserved	Total
Government	75%	96%	78%
Private	50%	78%	54%
Welfare/Trust	6%	9%	6%
Maktab/Madrassa	52%	48%	51%

In 34 underserved areas in Quetta City, there are a total of 53 schools. Government schools again make up the highest percentage (41%) while private educational institutions constitute 34%. A small percentage (4%) schools are run by welfare trusts.

These schools are within the vicinity of 2 kilometres of the slums or underserved areas. It is important to mention that in 136 slums and 11 Underserved areas there are no schools at all. It implies that children in these neighbourhoods either do not go to schools or have to go long distances to attend the nearest school. (Table 26a Table 26b Annex 5)

### 3.5.2 Civil Society Organizations (CSOs)

No slums/underserved have a presence of CSOs. Some slums/underserved areas reported working of CSOs on project to project basis.

## 3.5.3 Informal Groups

Overall 14% slums/underserved areas have informal groups with greater percentage in slums (15%) compared to underserved areas (6%). Majority of these informal groups are Masjid Committees, Jirga or unregistered community-based organizations.

### 3.5.4 Public Welfare Schemes

Only 11% slums positively report about social benefit schemes by the government as compared to (0%) in underserved areas. These schemes primarily focus on vocational trainings for females.

Table 20: Social Welfare			
Characteristics	Slums	Underserved	Total
CSOs works	0%	0%	0%
CSOs do not work	100%	100%	100%
Informal Groups Exist	15%	6%	14%
Informal Groups do not Exist	85%	94%	86%
Public Welfare Schemes Exist	12%	0%	11%
Public Welfare Schemes do not	88%	100%	89%
Exist			







# Chapter 4: Health Resources in Union Councils

The country is structurally divided into four provinces namely Punjab, Khyber Pakhtunkhwa, Sindh and Balochistan and two autonomous territories of Gilgit-Baltistan and Azad Jammu Kashmir and one Federal Capital of Islamabad. Each province is then subdivided into divisions, which in turn are further divided into districts. Districts are categorized into tehsils/towns, the subunit of which is the Union Council (UC). Under administrative tiers of Pakistan, UC is the fifth and the lowest level of administrative unit. This chapter compiles the status of health and EPI resources of UCs of Quetta. The status is presented around the following sub-themes:

<del>\*\*\*\*\*\*\*\*</del>

## 4.1 Administrative Layout

4.1.1 UCs with/without Slums/Underserved Areas

### 4.2 Health Facilities

- 4.2.1 UCs with/without Health Facilities
- 4.2.2 Number of Health Facilities vs. UCs

### 4.3 EPI Facilities

- 4.3.1 UCs with/without EPI Facilities
- 4.3.2 Number of EPI Facilities vs. UCs
- 4.3.3 Outreach Vaccination
- 4.3.4 Cold Chain

### 4.4 Nutrition Services

- 4.4.1 Presence of Nutrition Services
- 4.4.2 Types of Nutrition Services

### 4.5 Human Resources

- 4.5.1 Vaccinators per EPI Facility
- 4.5.2 Lady Health Workers

### 4.1 Administrative Lay Out

## 4.1.1 UCs with/without Slums/Underserved Areas

There are 50 UCs in Quetta city. The slums/ underserved areas are concentrated in 22 UCs, whereas 28 UCs are without any slum/ underserved area.

# Table 21: UCs with/without Slums/Underserved Total UCs UCs with Slums/Underserved Areas 50 22

### 4.2 Health Facilities

### 4.2.1 UCs with/without Health Facilities

20% UCs do not have Public Health facilities, while UCs where there are no health facilities contain slums/underserved areas. These slums/underserved areas are expected to access health facilities located in other UCs.

Table 22: UCs with/without Public Health Facilities		
UCs with Public Health	UCs without Public	
Facilities	Health Facilities	
80%	20%	

### 4.2.2 Number of Health Facilities Vs. UCs

There are 63 Public Health Facilities which are located in 80% UCs. Likewise, 34 health facilities serve UCs where slums/ underserved areas are present. The total population of Quetta city is 1.01 Million, which is expected to access any of the 63 public health facilities.

Table 23: # of Public Health Facilities Vs UCs	
Public Health Facilities	# of UCs with Public
	Health Facilities
63	40
63	40

### 4.3 EPI Facilities

### 4.3.1 UCs with/without EPI Facilities

18% UCs are without EPI facilities, while 82% UCs have EPI facilities. UCs without EPI facilities house slums/ underserved areas.

Table 24: UCs with/without EPI Facilities		
UCs with EPI Facilities	UCs without EPI	
	Facilities	
82%	18%	

### 4.3.2 Number of EPI Facilities vs. UCs

There are 69 EPI facilities for 82% UCs, while 18% UCs are without any EPI facility. Likewise, 34 EPI facilities serve UCs where slums/ underserved areas are present.

Table 25: Number of EPI Facilities		
# of EPI Facilities	# of UCs with EPI	
	Facilities	
69	41	

### 4.3.3 Outreach Vaccination

Although outreach Vaccination services are available in 100% UCs but 64% slums/underserved areas report non- provision of outreach services in their respective areas (Table # 8 Annex

Table 26: Outreach Vaccination	
UCs with Outreach	UCs without Outreach
100%	0%

# 6). Outreach vaccination services are essential to increase the outreach of routine immunization in areas where EPI facilities are not accessible by the public.

### 4.3.4 Cold Chain

Although ILR is available in 100% facilities, functional ILR is available in 97 % EPI facilities.

Table 27: Cold Chain	
Functional ILR	Non-Functional ILR
97%	3%

### 4.4 Nutrition Services

### 4.4.1 Presence of Nutrition Services

Nutrition services are not offered in 82% UCs. These UCs hold 178 slums/ underserved areas.

Table 28: Nutrition Services		
Available	Not Available	
18%	82%	

### 4.4.2 Types of Nutrition Services

Four types of nutrition services are offered at various levels i.e. fixed sites, temporary sites, school sessions and LHW sessions. Only 2% UCs have fixed nutrition services, whereas 18% UCs have temporary sites, school nutrition sessions and LHW sessions each.

Table 29	Table 29: Types of Nutrition Services			
UCs	UCS with	UCs with	UCs with	
with	Temporary	School	LHW	
Fixed	Sites	Nutrition	Sessions	
Nutrition			on Nutrition	
2%	18%	18%	18%	

### 4.5 Human Resources

### 4.5.1 Vaccinator

There are 120 vaccinators for 69 EPI facilities. This means there are less than 2 vaccinators per EPI facility.

Table 30: # of Vaccinators Vs # of EPI Facilities		
# of Vaccinators	# of EPI Facilities	
120	69	

### 4.5.2 Lady Health Workers

There are 516 LHWs available for 62% UCs. 27% UCs report LHWs do not visit their areas. The areas where LHW provide services, majority of them deliver information about maternal and child health care.

Table 31: # of LHWs Vs # of UCs w		
# of LHWs	# of UCs where they are	
	Deployed	
516	31	

### 4.5.3 Dengue Workers

Dengue Workers are not available in 100% UCs of Quetta City.



# Chapter 5 EPI Facilities



## Chapter 5: EPI Facilities

The previous chapters describe the situation of slums/underserved areas and availability of health and EPI resources at the UCs level. Chapter 3 and Chapter 4 clearly articulate that besides availability of health and EPI facilities at the UC levels, their access and utilization at the slum/underserved areas are very low. This chapter reflects on the situation of EPI facilities based on the physical assessment of EPI facilities. The overall objective of the assessment of EPI facilities is to know the strengths and weaknesses of the service delivery system. The following variables were assessed while visiting 54<sup>27</sup> EPI facilities:

### 5.1 Infrastructure

- 5.1.1 Ownership of Buildings
- 5.1.2 Waiting Areas
- 5.1.3 Drinking Water
- 5.1.4 Toilets

### 5.2 System

- 5.2.1 Standard Operating Procedures
- 5.2.2 Working Hours

### 5.3 Equipment and Supplies

- 5.3.1 Ice Lined Refrigerators
- 5.3.2 Supplies

### 5.4 Waste Management

5.4.1 Types of Practices

### 5.5 Human Resources

- 5.5.1 Vaccinators
- 5.5.2 Lady Health Visitors

### 5.1 Infrastructure

### 5.1.1 Ownership and Buildings

93% of buildings of EPI facilities are owned by the Government, whereas 7% are operational in privately owned buildings. Building and infrastructure of EPI facilities have a direct impact on the quality of services

and attraction for caregivers. Insufficient facilities e.g. absence of waiting areas, insufficient seating capacity in waiting areas and absence of toilets and drinking water discourage caregivers particularly females for visiting these

Table 32: Owners	ship of Buildings of	EPI Facility
Owned	Rented	Total
93%	7%	100%

EPI facilities. Likewise, absence of gender segregated waiting areas, gender segregated clean and useable toilets, and unavailability of drinking water creates difficulties for female caregivers while visiting these EPI facilities. The following section further assesses the conditions of EPI centres on these essential parameters.

### 5.1.2 Waiting Areas

Most of the waiting areas are observed to have gendermixed (52%) seating arrangement; whereas gender segregated waiting areas are present in only 48% EPI facilities. 37% EPI facilities have waiting areas but they have inadequate seating capacity. Gender-segregated waiting areas are essential to facilitate female caregivers coming

Table 33: Waiting Areas	
Gender Lens	
Gender Segregated	Gender Mixed
48%	52%
Seating Capacity	
Adequate	Inadequate
63%	37%

from conservative families to easily visit the EPI center on their own.

### 5.1.3 Drinking Water

48% EPI facilities do not have drinking water facility that could be discouraging for caregivers traveling from distant places. Considering the hot weather conditions during summer, availability of an adequate drinking water facility is important for EPI facilities.

Table 34: Drinking Water	
Available	Not Available
52%	48%

<sup>&</sup>lt;sup>27</sup> 54 are the assessed number of EPI facilities in Quetta city.

### 5.1.4 Toilets

There are 26% EPI facilities without toilets. Since 19% of toilet facilities available at EPI facilities are not gender segregated, they cannot be used by female caregivers due to highly gender segregated cultural practices prevalent in Quetta. Facilities where toilets exist, 13% of them are not useable.

Table 35: Toilets		
Availability		
Available	Not Availabl	е
74%	26%	
Gender Lens		
Gender Segregated	Gender Mixe	ed
81%	19%	
Usability		
Useable	Unusable	No Toilet
61%	13%	26%

### Systems 5.2

### Standard Operating Procedures

Standard Operating Procedures is a key document for providing guidance on management of facilities to ensure that at least minimum quality standards are being held. It is alarming that 81% facilities in Quetta do not have Standard Operating Procedures.

### 5.2.2 Working Hours

Only 31% EPI facilities extend their services for 06 hours, whereas 69% of the EPI facilities operate for less than 06 hours a day.

### Table 36: Standard Operating Systems Standard Operating Systems Available Not Available 19% 81% Average Working Hours Six Hours Per Day Less than Six Hours Per Day 31% 69%

#### 5.3 **Equipment and Supplies**

## 5.3.1 Ice Lined Refrigerators

Overall 100% EPI facilities have ILR availability but 4% EPI facilities do not have functional ILRs. The study found that the rest of the EPI facilities (96%) have fully functional ILRs.

Table 37: Ice Lined Refrigerator		
Functional	Non-Functional	
96%	4%	

Vaccines

29%

6%

### 5.3.2 Supplies

Majority (65%) of the EPI facilities do not face shortage of vaccine supplies although 35% complaint about either occasional or frequent shortage.

As for the availability of vaccine supplies, safety boxes, auto disable syringes and vaccine carriers are readily available. However, 2% of EPI facilities do not have vaccine carriers and 7% do not have Ice packs.

Status

Table 38: Supply of Vaccines

Table 39: Supply of Supplies

Sometimes Shortage

Frequent Shortage

Types of Supplies	Available	Not Available	Total
Auto Disable Syringes	100%	0%	100%
Safety Boxes	100%	0%	100%
Vaccine Carriers	98%	2%	100%
Ice Packs	93%	7%	100%

### Waste Management

#### Types of Practices 5.4.1

100% EPI facilities burn and bury their waste material. Some of the waste such as paper boxes of vaccines and cotton is thrown in the dustbin.

Table 40: Waste Management	
Burn and Burry	WMC Vehicle
100%	0%

### 5.5 **Human Resources**

#### 5.5.1 Vaccinators

Vaccinators are available in 100% EPI facilities.

Table 41: Human Resource			
Vaccinators			
Available	Not Available	Total	
100%	0%	100%	
Lady Health Visitors			
59%	41%	100%	

### 5.5.2 Lady Health Visitors

Lady Health Visitors (LHVs) are not available in 41% facilities. The rest of the facilities do have LHVs.

# Chapter 6 Childhood Vaccination



# Chapter 6: Childhood Vaccination

This chapter presents the analysis of vaccination coverage rates of children aged 12-23 months. Literature on immunization shows that the coverage rates are correlated with background characteristics of households and profile of mothers<sup>28</sup> in addition to other factors. This chapter comprehensively covers the following variables:

<del>\*\*\*</del>

#### Vaccination Coverage 6.1

- 6.1.1 Sample size
- 6.1.2 Retention of Vaccination cards
- 6.1.3 Fully Immunized Coverage
- 6.1.4 Antigen wise Coverage
- 6.1.5 Partially Vaccinated
- Zero Dose 6.1.6
- 6.1.7 Reasons of Zero Dose
- 6.1.8 Information about Working of LHWs
- 6.1.9 Preferred Channels of Communication

#### 6.2 **Characteristics of Mothers**

- 6.2.1 Aae
- 6.2.2 **Education Levels**
- 6.2.3 **Engagement in Livelihood**

#### 6.3 Characteristics of Households

- 6.3.1 Commonly Spoken Language
- Housing Structures 6.3.2
- Access to Water 6.3.3
- 6.3.4 Household Toilets
- 6.3.5 **Major Professions**

### 6.4 Background Characteristics Fully-Immunized Vs. Zero-dose

- 6.4.1 Illiteracy in Mothers
- Living in Kacha Housing Structures 6.4.2
- Availability of Household Toilets 6.4.3
- 6.4.4 Caregivers Working as Daily Wage Workers

### 6.1 Vaccination Coverage

This section presents the sample size, retention of vaccination card and childhood immunization coverage rates. The status of vaccination is checked for both records and recall basis. The coverage rates are higher on recall basis compared to records basis. Since 83% mothers are illiterate and 7% are educated between grades 1-5 therefore, reliability of recall is limited.

#### Sample Size 6.1.1

A total of 1,782 households with 1,786 mothers and 1,792 children aged 12-23 months are part of this survey. Out of 1,792 children aged 12-13 months, 48% are girls and 52% are boys. These households have a total of 18946 members with 48% (9133) male and 52% (9813)

Table 42: Sample Size Children Mothers Households 1792 1782

female members. (Annex 8 Table 4). The average family size of the sample population is 11 persons per house (Annex 8 Table 5). Within the study clusters 99.7% mothers have one child aged 12-23 months, while only 0.3% mothers have two children aged 12-23 months at the time of the survey.

# 6.1.2 Retention of Vaccination Card

Only 35% of the children have vaccination cards; whereas, majority of the children do not have vaccination cards. Retention of vaccination card is greater in boys 54% compared to only 46% in girls.

Table 43: Retention of Vaccination Cards			
Children with	Boys with	Girls with	
Vaccination	Vaccination	Vaccination Card	
Card	Card		
35%	54%	46%	

When checked for living conditions, 99% of the children without vaccination cards reside in either Kacha or Kacha/Pacca houses, 63% of the families of the children without vaccination are daily wage labors; where 75% face constant financial debt. 82% of the mothers of the children are illiterate, whereas 6% have received education up to primary level.

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<sup>&</sup>lt;sup>28</sup> https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4032449/

### 6.1.3 Fully Immunized Children

### 6.1.3a) Record + Recall Basis

27% children are fully immunized on record and recall basis. The recall basis children are checked for BCG scar so that reliability of data can be enhanced. A large number of children are found partially vaccinated due to unavailability of outreach and EPI facilities. Scattered residential areas devoid of gender friendly transport facilities limit access of female caregivers to EPI facilities located at distant places.

Table 44: Fully Immunized			
Records+Recall Basis			
Fully Immunized	Fully Immunized Boys	Fully Immunized Girls	
27%	49.6%	50.3%	
Records Basis			
11%	49%	51%	

### 6.1.3b) Record Basis

Fully immunized children were found to be only 11% when checked against the records. As per records, the percentage of fully immunized girls is higher (51%) than the boys (49%). (Table 8 Annex 8)

### 6.1.4 Antigen wise Coverage

### 6.1.4a) Record + Recall

71% children have received BCG + OPV0 dose, but the coverage rate for Penta 3 is 42% and coverage rate

for Measles 1 is only 38%. The dropout from BCG-OPV0 to Penta 3 is 41%, whereas the dropout from BCG-OPV0 to Measles 1 is 46%. This reflects a greater need for extensive follow up and tracking of children so that dropout rates can be reduced and coverage rates increased.

Table 45: Antigen Wise Coverage			
Antigens	Record+Recall Basis	Record Basis	
BCG OPV0	71%	35%	
Penta 1	63%	32%	
Penta 2	52%	27%	
Penta 3	42%	21%	
Measles 1	38%	19%	

### 6.1.4b) Record Basis

The antigen wise coverage rates drop even further when checked against the records. Overall coverage rate for BCG+OPV0 is 35%, while for Penta 1 this is 32%. For Penta 2, the coverage rate on records is 27%, whereas this is 21% for Penta 3. The records show alarming results for the coverage of Measles 1, which is as low as 19%. The dropout on record basis from BCG-OPV0 to Penta 3 is 40%, whereas the dropout from BCG-OPV0 to Measles 1 is 46% (Table 10 Annex 8).

### 6.1.5 Partially Vaccinated

46% of children are partially vaccinated (Record+ Recall). This means that although they have received a few antigens of routine vaccination, they have not completed all antigens up-to Measles 1. The analysis on the living conditions of the partially vaccinated children reveals that 95% families of these children live in either Kacha or

Table 46: Partially Vaccinated & Zero Dose			
	Partially	Zero Dose	
Vaccinated			
	(Record+Recall)		
Girls	47%	48%	
Boys	53%	52%	
Total	46%	27%	

Kacha/Pacca houses. 51% of the families of these children earn livelihood from daily wage and 71% of the families face constant income deficit. 81% mothers of the partially vaccinated children are illiterate, whereas 9% have received education to up-to  $5^{th}$  grade only.

### 6.1.6 Zero Dose Children

Overall 27% children have not received any antigen hence are zero dose the study found. The gender lens on the vaccination status reflects that 52% of zero dose children are boys compared to 48% girls. Further analysis of the living conditions of the zero-dose children reveals that 97% of the families of the zero-dose children live either in Kacha or Kacha-Pacca houses, 63% of the families of zero-dose children are daily wage workers and 80% of them face constant income deficit. 91% of the mothers of the zero-dose children are illiterate and hence have very low understanding of the need for vaccination.



### 6.1.7 Reasons of Zero Dose

45% reasons are directly linked with the unawareness of the need for vaccination. For example fear of side effects and fear of pain of injection are associated with unawareness level of mothers. 43% reasons of zerodose are directly linked with the non-permission to mothers by their family members for childhood vaccination. 11% caregivers cannot afford transport cost to and from the EPI facility while 1% complaint about the unfriendly environment in EPI facility. The reasons of zero dose clearly indicates need for extensive social mobilisation for raising demand for immunization.

### 6.1.8 Information about Working of LHWs

52% mothers are not aware about the working of LHWs in their locality. As for the types of services provided by LHWs, 29% mothers believe that LHWs promote health services, while 5% of the mothers think that LHWs supply

family planning products. Only 1% of the mothers reported LHWs providing information on routine

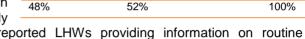


Table 47: Awareness Level of Mothers About LHWs

Not Aware of LHWs

Total

Figure 5: Reasons of Zero Dose

No Family Permission

Transport Cost is High

Wastage of Time

Fear of Injection Unavailability of Time for.

Unaware of Childhood Vaccination

Vaccination causes more diseases

Unaware of Vaccination Timings

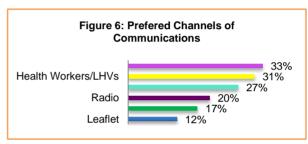
No enabling environment in EPI.

Aware of LHWs

immunization (Table # 16 Annex # 8).

### 6.1.9 Preferred Channels of Communication

33% mothers prefer TV as a communicator for providing information on vaccination, whereas 31% preferred medium of communication to receive information through health workers. Leaflet (12%) and Posters (17%) is the least popular medium of receiving information on vaccination.



### **Background Characteristics of Mothers** 6.2

In order to comprehend the real reasons of low or no coverage, it is important to know the background characteristics of mothers. Three major variables i.e. mother's age, education level and engagement in livelihood activities were checked.

### 6.2.1 Age

Majority (76%) of the mothers have age ranging between 20-34 years. 21% mothers are 35+ years while 3% are under 18 years of age (Table 20 Annex 8).

### 6.2.2 Educational Levels

83% mothers have no education, while 13% have 1-10 years of education and only 3% have 11-15 years of education (Table 21 Annex 8).

### 6.2.3 Engagement in Livelihood

96% mothers serve as home makers, while only 4% are engaged in livelihood activities (Table 22 Annex 8).

### **Background Characteristics of Households**

The background characteristics of households are checked to know the family background, living conditions and economic pressure. Five major variables are analysed i.e. spoken language to know the ethnic background, housing structures, access to water and toilets, major profession and financial debt.

### 6.3.1 Commonly Spoken Language

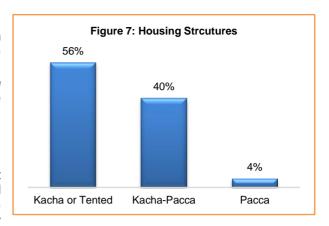
Pashto is the most commonly spoken language by 54% households, whereas Balochi is the spoken language of 18% families. A combination of languages i.e. Hindko. Brahvi. Farsi and Uzbaki languages are spoken in 28% households (Table 23 Annex 8).

### 6.3.2 Housing Structures

56% houses of children are *Kacha/tented* house, whereas 40% houses are *Kacha/Pacca* combination (mixed structures). Majority of the (56%) houses have 2-3 *rooms*, while 16% houses have only 1 room. Average family size is 11 in which females constitute 52% and males constitute 48% family members. The operational electricity connections are available in majority (99%) of the houses.

### 6.3.3 Access to Domestic Water

Majority (73%) of the houses do not have Government water supply connections and they use either ground water or acquire water from other sources. 99% of the houses which have access to government water supply receive water for 1-5 hours (Table 28 Annex 8).



### 6.3.4 Household Toilets

Majority of the houses (98%) have traditional or open pit toilets. Around 2% houses where toilet *facilities* are absent engage in open defecation practices. The average use one toilet is 10 persons toilet on a daily basis (Table 30 Annex 8).

### 6.3.5 Major Professions

54% households rely on daily wage labor for income followed by 24% households earning income from small businesses; whereas, only 22% households hold regular jobs. 72% households face constant debt because households have to borrow household groceries, the money of which is to be returned every month (Table 32 Annex 8).

### 6.4 Background Characteristics of Fully-immunized vs. Zero-dose

91% mothers of zero dose children are illiterate as compared to a smaller share of 80% illiterate mothers of fully immunized children. The source of income for a majority (63%) of households belonging to zero dose and fully immunized children is daily wage work are 51%. The comparison of economic situation reflects better state of families of fully immunized children as compared to zero dose. As 80% households of zero dose have debt burden in contrast to 67% households of fully immunized. Housing structures of zero dose

Table 48: Fully Immunized Vs Zero Dose			
Variables	Fully Immunized	Zero Dose	
	immunizea		
Illiteracy in Mothers	80%	91%	
Caregivers Working as Daily	51%	63%	
Wage Labour			
Debt	67%	80%	
Live in Kacha or Kacha	95%	97%	
Pacca House			
No Toilets	2%	4%	

and fully immunized children have no significant difference. 97% zero dose children live in either Kacha or Kacha Pacca (mixed) structures in comparison of 95% fully immunized children living in Kacha or Kacha Pacca (mixed) structures. 4% of the houses belonging to zero-dose and 2% of fully immunized children do not have any toilets and hence, residents mostly practice open defecation.



# Chapter 7 Conclusion & Recommendation

# Daily Wages Routine and Left out Children Of Vaccination

Rasheeda, 27, is mother of murad (22 months old) and lives in a small kacha house of one room with 10 family members) in basti kili balochabad of chilton town of quetta. Some part of the basti is situated in zarghoun town as well. The habitant of the basti are mostly pashtun like her family. There are around 50 households in their basti with mixed kacha and pacca structures. The status of basti is unregistered although it is very old settlement and Rasheeda's family is living here since 1980.

Majority of male population of this basti works on daily wages. There are very few families who have small business like shops, taxies, rickshaws etc. The financial situation of the residents is not good and many families have one meal per day due to seasonal unemployment.

The hygiene condition of basti is very poor. Mostly the drains are open and filthy with over flown water. The residents struggle while passing through the street due to the drains water. Toilets have traditional pits and dirty water mixed in the drains that caused more smell in the area. Young children play in the streets and are exposed to germs and filth. Although household latrines are available young children often urinate in streets.

There is also no solid waste management system in the basti. Residents throw waste in a nearby plot. There is no health center or lady health worker in basti. Rasheeda narrated during the conversation;

"There is no health center in our basti and its surroundings and we never saw any LHW in our area. Many of the mothers in our basti do not have any knowledge about vaccination and its importance. My husband is also against the vaccination. We and our forefathers grew without any injections/vaccination and are healthier than today's children".

# Chapter 7: Conclusion & Recommendations

<del>\*\*\*\*\*\*</del>

### 7.1 Conclusion

This survey is unique of its kind in Pakistan as per theme, geographical areas studied, and the policy implications it might have if benefited from its findings. There was a dire need to collect in depth information and analysis regarding the most marginalized parts of the province with has the least immunization rates in the country. Quetta, the provincial capital, holds many hundreds slums (315) the research study found. This profiling activity indicates that about 44% of the city UCs accommodates these slums and underserved areas which is an indication of unplanned city growth and the vulnerable state under which most of the residents of the city are living. Further analysis reveals that the city saw major slum proliferation during 1950-1990, the era of urbanization in Pakistan; transitioning from an agrarian economy to a semi-industrialized economy. During this time period, a wave of migration started from rural to urban areas by residents in pursuit of better life opportunities, creating informal settlements in the process. More than half of the slums are not registered by city authorities implying that these settlements are illegal and therefore, they do not have access to public health, water and sanitation systems, and schools. A quarter of the residents of the slums and underserved areas of Quetta are either temporarily displaced or are refugees. The temporarily displaced people and refugees need special attention from the city authorities since they either keep moving from one locality to another creating shanty towns, or in case of refugees, they may not have legal right to work in Pakistan which contributes further to their state of marginalization.

When assessed for their infrastructural facilities, more than half of the houses in slums/underserved areas are either Kacha/Kacha Pacca, making them vulnerable to extreme weather conditions. Although most of the households in slums and underserved areas of Quetta have toilet facilities, a significant portion of slums and underserved areas are without proper solid and liquid waste disposal system. These household have either open or running drains and for solid waste disposal, they dump their waste material either on streets or in open empty plots. This contributes to poor hygiene and cleanliness related issues which in turn lead to the spread of diseases among the residents of these informal settlements. Further analysis on the access to government supply of water reveals that it is only available to less than quarter of the residents of slums and underserved areas. The rest of the residents either have to travel long distances on foot to the nearest water pump or have to rely on purchased water to fulfil their daily water needs. Quality of the purchased water is questionable and can increase possibility of outbreaks. When assessed for the availability of social welfare schemes, half a quarter of slums were found with no schools implying that either the children in these areas do not attend school or have to travel a long distance to access the nearest school. CSOs are not found in any of slums/underserved areas. Considering the prevailing inequities and state of deprivation in slums/underserved areas, CSOs, if formed, can play a vital role in highlighting and addressing issues of the deprived community.

As for the availability of *Public Health and EPI facilities*, almost a quarter of UCs of Quetta and half a quarter of UCs of the city do not have these facilities respectively. Even the UCs where public health and EPI facilities are present, a significant number of the residents of slums/underserved areas report that they are outside the accessible vicinity of 2 Kilometers. Health facilities situated outside the easy accessible distance make it difficult for the slum dwellers to reach these facilities in case of a health-related emergency. Moreover, the distance from the EPI facilities means that the caregivers, considering their state of financial deprivation, are less likely to take their children for routine immunization. This in turn contributes to poor immunization coverage and the outbreak of preventable diseases which strains the already limited budget of the Provincial Health Department. As for the availability of nutrition services, more than three quarters of the UCs of the city do not have fixed nutrition services. Malnutrition is one of the major reasons of low immunity even after having vaccination and therefore, demands special attention from provincial and national governments.

The assessment of *EPI facilities* reveals that almost half of the EPI facilities do not have gender-segregated waiting areas, whereas more than quarter of the EPI facilities does not have gender-segregated toilets. In the cultural context of Balochistan, gender segregated facilities are essential to enable the female caregivers to visit EPI facilities on their own for vaccinating their children. Moreover, as for the services by the EPI facilities are concerned, around 30% of the facilities operate for less than standard 6 working hours per day. These EPI centers fall short of their duty hours since a significant portion of the EPI facilities do not have SoPs which means that there are no standards against which the services of the EPI centers can be evaluated against. In absence of the SoPs and thereby proper monitoring mechanism, the EPI centers may underperform, discouraging caregivers from visiting these facilities. Although most of the EPI centers have vaccinators available, the absence of LHVs in almost half of the EPI facilities proves to be another discouraging factor for the female caregivers to visit the EPI centers for vaccinating their children.

The coverage analysis on sample population reveals that about quarter of the children are fully-immunized, whereas the rest are either zero-dosed or partially vaccinated. The reason for poor immunization coverage is

primarily attributed to low levels of awareness about routine immunization among the mothers of the children and the absence of permission from their families. Further analysis indicates that the families of zero-dosed children are living under even more vulnerable conditions with constant income deficit, illiteracy of mothers, Kacha housing structures and absence of sanitation system, when compared to the families of fully-immunized children.

## 7.2 Study Limitations

- The profiling of slums / underserved areas is done by conducting interactive group interviews. There is a possibility of exaggeration and biased input from the participants due to prevailing group dynamics.
- The study provides accurate listing of the slums and provides substantial details on the profiling of the slums. However, since it is a sample-based study, the input from the sample does not precisely represents the true opinion of the entire slum population.
- Although the study provides an insight into the water and sanitation conditions of the dwellers of slums/underserved areas, the study does not, in detail covers the hygiene of water in terms of water safety for human consumption. The study also does not cover the poor sanitation related ordeals of the slum dwellers.
- The data on existing healthcare facilities has been collected from the department of health. It has been organised and analysed under the existing study but the healthcare facilities (except EPI facilities) located in the union councils, were not physically visited and verified by the study team.
- The data presented on EPI facilities is the observation/input of the survey team and information provided by the technical staffs / doctors. The department of health may have different information about EPI facilities in their records.
- The profiling of slums/underserved areas was conducted to have a cursory view of the situation therefore participatory groups discussions were conducted in each slum and underserved areas. Since the detailed house-to-house information has not been collected from the residents, some of the information may have exaggeration according to the participants of the group.
- The status of vaccinations explored through childhood vaccination coverage survey in the community
  were not triangulated with the data obtained from fixed EPI facilities through assessment. Therefore, the
  survey records for recall basis may have some variation.
- The childhood vaccination coverage survey was conducted only with mothers of children aged between 12 and 23 months, living in slums/underserved areas. The majority of mothers were either had no formal education or had very low levels of education. Their responses may have some understanding gaps.
- Since majority of the respondents of coverage survey were mothers with no formal education therefore the status of vaccination on recall basis has limited reliability.
- Since majority of the mothers of zero dose children had no formal education therefore reasons of zero dose may have missed some more aspects.
- Almost 75 percent population (slums and underserved areas) has access to school (i.e. access to primary education) in the study areas. However, type and quality of school education had not been assessed.

### 7.3 Recommendations

The following recommendations are made according to the gaps found in the research in health resources and coverage rates in slums and underserved areas.

### 7.3.1 Service Delivery

- 7.3.1.1 Improve the availability and accessibility of health and EPI facilities for the residents of slums/underserved areas. It is important to utilize the private sector health facilities for improving the access of slums/underserved areas to vaccination services.
- 7.3.1.2 Reconsider total timings and duration for offering vaccination services according to the preference of caregivers. Either introduce flexible hours for the outreach vaccination services according to the availability of residents of slums/underserved areas or introduce double shift system for vaccination services in EPI facilities and ensure availability of vaccination for extended hours as well.
- 7.3.1.3 Ensure *Standard Operating Procedures* are updated according to the current changes in the system and practices, and staff is trained and followed up for its adherence.
- 7.3.1.4 Provide gender specific infrastructure facilities in the buildings of EPI facilities. For example women and men specific waiting areas with adequate seating capacity, women and men specific functional clean toilets, and drinking water facilities may enhance the visits of women caregivers. Ensure presence of LHVs in all EPI centres considering the gender related cultural dynamics of Balochistan.
- 7.3.1.5 Ensure timely availability of vaccines and vaccine supplies without any interruption to vaccination services.
- 7.3.1.6 Create permanent outreach vaccination points in or near slums/underserved areas. Health houses of LHWs can also be transformed into outreach vaccination points.

#### 7.3.2 Demand Generation and Communication

- 7.3.2.1 Design targeted demand generation strategy which not only targets the caregivers of the children but also offer tools for raising awareness levels of family members of the children. The community awareness raising sessions to increase the knowledge of residents of slums/underserved areas can be helpful in eliminating the misconceptions and to maximize their understanding of the overall safety and efficacy of vaccines.
- 7.3.2.2 Design literacy programmes for improving the maternal education level. Literacy could be utilized as a medium for raising awareness on importance of immunization.
- 7.3.2.3 Use channels of communication preferred by mothers and other community members so that importance of childhood immunization could be understood and practices changed accordingly.
- 7.3.2.4 Facilitate LHWs in raising awareness levels of caregivers on importance of childhood immunization as a priority.
- 7.3.2.5 Ensure regular follow up of caregivers by front line health workers (vaccinators or LHWs or social organizers or local community activists) before and after the outreach vaccination in their respective areas.

#### 7.3.3 Health Work Force

- 7.3.3.1 Facilitate vaccinators in preparing realistic micro plans and covering children living in both planned and unplanned areas (slums).
- 7.3.3.2 Create system for tracking new born and moving population to prepare realistic micro plans.
- 7.3.3.3 Introduce performance-based payments together with effective performance management measures. For example offer non-financial incentives to high performing LHWs and vaccinators such as certificate for best employee award etc. Any LHW or vaccinator securing 12 certificates consecutively could be recommended for salary increments etc. This would improve the coordination and team work between LHWs and vaccinators.
- 7.3.3.4 Offer periodic performance based incentives to vaccinators to improve the effectiveness of outreach vaccination services.

#### 7.3.4 Gender in Immunization

- 7.3.4.1 Ensure deployment of LHVs in all EPI facilities to attract women caregivers.
- 7.3.4.2 Ensure administration of vaccination in private health facilities, which offer MNCH services.

#### 7.3.5 Practical versus Strategic Needs

- 7.3.5.1 Coordinate and combine vaccination services together with public and private welfare initiatives that contribute to the improvements in economic conditions of urban poor. This would directly contribute in increasing the coverage rates as this addresses urban poor's practical as well as strategic problems.
- 7.3.5.2 19% slums are unregistered or illegal. This lack of official recognition makes these communities prone to evictions and deprived of basic facilities. Provision of secure tenure for slum dwellers is prerequisite to receive the basic services delivery.

### Annex 1: Questionnaire for Group Discussion in Slums/Underserved Areas

Objectives: To line list slums/underserved areas and prepare their profile.

	o line list significanderserved areas and prepare their profile.
BS02	Name of facilitator of group interview
	What is the name of your province? Select from below by typing the correct number:
BS04	1. Punjab
D304	2. KP
	3. Balochistan
BS05	Enter the name of your city
BS06	Enter name of your town
Bs07a	What is the NEW NAME of this Union Council?
BS07b	What is the NEW NUMBER of this Union Council?
BS08a	What is the OLD name of this Union Council? If there is no OLD name, type X
BS08b	What is the OLD NUMBER of this Union Council? If there is no old number, type X
Восов	Is this a
BS09	1. Slum
D309	2. Underserved area
	PART B
	Please share current publicly known name of slum or underserved area (this should be name of the
SP01	slum/underserved area that is also used in their postal address)
	What is the status of registration of slum or underserved area with the relevant government department? Type 1 if its registered, or 2 if its unregistered.
SP02	
	1. Registered 2. Unregistered
CDOO	Do you have documentary evidence? Type 1 for "yes" or 2 for "no". Skip if answer to question S02 is no.
SP03	1. Yes – check the evidence. If any utility bill is available in the name of the area, this can be treated as evidence
CD04	2. No
SP04	Which year was this area established?
SP05a	What is the name of the nearest landmark of this area?
SP05b	Please enter distance in kilometers from the slum/underserved area to the landmark
SP06	How many Mohallas do you have in this slum or underserved area?
SP07a	How many total families live in this slum or underserved area?
SP07b	What is the total population of this slum/underserved area?
	PART C
	Do you have families other than permanent residents living here? If answer to this question is no then skip
MT01	questions MT02b
101101	1. Yes
	2. No
MT02a	What is the number of permanent resident families settled here? Please enter number of FAMILIES only, and not
WITUZa	individuals
MT02b	What is the number of temporary displaced families settled here? Please enter number of FAMILIES only, and not
WITOZD	individuals. If none, type 0. Skip this question if answer to the question MT01 is no
MT02c	What is the number of nomad families settled here? Please enter number of FAMILIES only, and not individuals. If
WITUZC	none, type 0. Skip if answer to questions SP08a is no
MT02d	What is the number of families from conflict affected areas that are settled here? Please enter number of FAMILIES
WITUZU	only, and not individuals. If none, type 0. Skip if answer to questions SP08a is no
MT02e	What is the number of non-Pakistani families settled here? Please enter number of FAMILIES only, and not
WITUZE	individuals. If none, type 0. Skip if answer to questions SP08a is no
MESS	Any there families settled other than explained in answers to the earlier questions? Please enter number of
MT02f	FAMILIES only, and not individuals. If none, type 0. Skip if answer to questions SP08a is no
	PART D
	Are there any functional public or private health facilities having MBBS qualified doctors in this slum or underserved
	area? If answer to this question is no then skip questions from HF02a to HF02d
HF01	1. Yes
	2. No
	If there are any functional health facilities having MBBS qualified doctor then how many of these are public health
HF02a	facilities? Reply with a number. If there are none, type X. Skip this question if the answer to the question HF01 is no
	Please share distance of nearest Public health facility located within your slum or underserved area in kilometers
	from the centre of your slum or underserved area. Skip this question if the answer to the question HF01 is no. Type
	a number from the select:
	1) 0 - 1 Km
HF04	2) 1 - 2 Km
111 U <del>T</del>	3) 2 - 3 Km
	4) 3 - 4 Km
	5) 4 - 5 Km
	6) 5 + Km
	Does this public health facility offer the service of vaccination of children? Skip this question if the answer to the
	question HF01 is no
HF05a	1. Yes
	2. No
	Does this public health facility offer the service of maternal and child health care? Skip this question if the answer to
	the question HF01 is no
HF05b	1. Yes
	2. No
	Does this public health facility offer the service of administration of polio drops? Skip this question if the answer to
HF05c	the question HF01 is no
	the queenent in or reme

	1. Yes
	2. No
	Does this public health facility offer the service of obstructive care and delivery? Skip this question if the answer to
HF05d	the question HF01 is no 1. Yes
	2. No
HF05e	Does this public health facility offer any other facilities? Skip this question if the answer to the question HF01 is no
111 000	If yes, please describe. If none other, type X
HF 06	Does this public health facility have functional ambulance?  1. Yes
111 00	2. No
HF02b	How many Private profit making health facilities having MBBS doctor are located in this slum or underserved area?
111 020	Reply with a number. If there are no private health facility in this slum or underserved area then type X
	Please share distance of nearest private facility (for-profit) in kilometers from the centre of the area. Type a number from the select. Skip this question if the answer to the question HF01 is no
	1) 0 - <1 Km
HF07.	2) 1 - <2 Km
111 07.	3) 2 - <3 Km 4) 3 - <4 Km
	5) 4 - <5 Km
	6) 5 + Km
	Does this private for-profit health facility have functional ambulance? Skip this question if the answer to the question
HF 08.	HF01 is no 1. Yes
	2. No
	Does this private for-profit facility offer vaccination of children? Skip this question if the answer to the question HF01
HF09a.	is no
	1. Yes 2. No
	Does this private for-profit facility offer maternal and child health care services? Skip this question if the answer to
HF09b.	the question HF01 is no
111 030.	1. Yes
	2. No Does this private for-profit facility offer the service of administration of polio drops? Skip this question if the answer to
LIE00+	the question HF01 is no
HF09c.	1. Yes
	2. No
	Does this private for-profit facility offer obstructive care and delivery services? Skip this question if the answer to the question HF01 is no
HF09d.	1. Yes
	2. No
HF09e.	Does this private for-profit facility offer any other services? If yes, please describe what those services are in meaningful text and correct spellings. If the private health facility does not offer any other services defined in earlier
111 050.	questions then type "X". Skip this question if the answer to the question HF01 is no
	How many health facilities having MBBS qualified doctor located in your slum or underserved area are run by any
HF02c.	WELFARE or TRUST? Reply with a number. If none of the health facilities are run by any welfare or trust then type
	X. Skip this question if the answer to the question HF01 is no  Are there any other types of functional health facilities having MBBS qualified doctor which are not been mentioned
HF02d.	by you in the answers of earlier questions? If yes how many of these are located in your slum or underserved area.
111 UZU.	Please answer in number. if there is no health facility other than already explained in the answers of earlier
	questions then type X. Skip this question if the answer to the question HF01 is no  Are you aware of transport services offered by the government for any health related emergencies?
HF10.	1. Yes
	2. No
HF11a.	Are you aware of 1122 by the government to respond to any domestic accidental emergency?
пгііа.	1. Yes 2. No
	Are you aware of 1038 by the government to respond to emergency related to the situation of pregnant women?
HF11b.	1. Yes
	No     Do Lady Health Workers work in this slum or underserved area? If the answer to this question is no then skip
	questions from HF13a to HF14f
HF12.	i. Yes
	2. No
	PART E
	Are there any vaccination services offered for children and women in this slum or underserved area? If the answer to this question is no then skip questions from EP02a to EP02f
EP01.	1. Yes
	2. No
	Are there any fixed EPI facilities for vaccination in this slum or underserved area? Skip this question if answer to
EP02a	question EP01 is no 1. Yes
	2. No
	Who is running this fixed EPI facility? Skip this question if answer to question EP01 is no
EP03.	1. Government 2. Private
	3. Welfare organisation

	4. Cantonment
	5. Other
	What is the average distance of the facility from the centre of the slum? Skip this question if answer to question
	EP01 is no
	1. 0 - 1 Km
EP04.	2. 1 - 2 Km 3. 2 - 3 Km
	4. 3 - 4 Km
	5. 4 - 5 Km
	6. 5 + Km
	Are there outreach vaccination camps in this slum or underserved area? Skip this question if answer to question
EP02b.	EP01 is no
	1. Yes
	2. No Do Lady Health Workers do the vaccination?
<b>ED</b> 00	Skip this question if answer to question EP01 is no
EP02c.	1. Yes
	2. No
	Are there overnight stay of mobile vaccinators for vaccination camps
EP02d.	Skip this question if answer to question EP01 is no  1. Yes
	1. Tes 2. No
	Do doctors in private health facility do the vaccination?
EP02e.	Skip this question if answer to question EP01 is no
EPUZE.	1. Yes
	2. No
ED00f	Are there any system for vaccination in this slum or underserved area which is not explained in the answers to
EP02f.	earlier questions? If yes, please explain in a meaningful sentence and there is no other system for vaccination which is not explained in earlier questions then type X. Skip this question if answer to question EP01 is no
	PART F & G
	What is the MAIN source of water for domestic purposes for the majority of the houses of this slum or underserved
	area?
	1. Government water supply
WA01	2. Well
	3. Hand pump 4. Tube wells
	5. Other
	If acquire domestic water through any water supply system is available in this slum what is the duration of water
WA02	availability? Please enter number of hours, e.g., type "4" if the water comes for 4 hours. If no running water
	available, type X
	Are toilets available in any of the houses of this slum or underserved area? Skip questions TO02a if the answer to
TO01.	this question is no 1. Yes
	2. No
T-00-	Approximately how many houses of this slum or underserved area have toilets? Enter number only. If the answer to
To02a.	the question TO01 is no then skip this question
<b>-</b>	How many total houses of this slum or underserved area do NOT have toilets? Enter number only. if answer of
To02b.	TO02a is less than the total number of houses in this slum or underserved area then this question will filled
	otherwise skip it  How many total houses are located in this slum or underserved area? Enter number only. (This question is asked to
To02c.	check that the answer to the question TO02a and To02b should not be greater than the total houses located in this
. 0020.	slum or underserved area
	If toilet exists in any of the houses of this slum or underserved area, please specify how many flush to sewage toilets
TO 03a	are there? (Flush to sewage toilet refers to sewer connected pour flush toilet fixed with a household and main sewer
. • • • • •	outside the house leading to a disposal point or sedimentation tank). Please enter NUMBER of such type of toilets
	only. If there are none, type 0. Skip if answer to question TO01 is no  If toilets exist in any of the houses of this slum or underserved area, please specify how many traditional pits toilets
TO 03b	are there in the slum/underserved area? (Constructed over simple dug well without any p-trap provision). Please
10 000	enter NUMBER of such type of toilets only. If there are none, type 0. Skip if answer to question TO01 is no
	If toilets exist in any of the houses of this slum or underserved area, please specify how many open pits are there in
TO 03c	the slum/underserved area which people use as toilets? Please enter NUMBER of such type of toilets only. If there
	are none, type 0. Skip if answer to question TO01 is no
	Please specify if there are ANY OTHER types of toilets in the slum/underserved area, which we have not asked you
TO 03d	about yet. If so, please describe what type and how many are there. If there is no other type, type X. Skip if answer
TO 03d	about yet. If so, please describe what type and how many are there. If there is no other type, type X. Skip if answer to question TO01 is no
TO 03d	about yet. If so, please describe what type and how many are there. If there is no other type, type X. Skip if answer to question TO01 is no  If toilet exists in all or some of the houses of this slum or underserved area, please explain approximately how many
	about yet. If so, please describe what type and how many are there. If there is no other type, type X. Skip if answer to question TO01 is no  If toilet exists in all or some of the houses of this slum or underserved area, please explain approximately how many persons in majority of the houses share one toilet? Enter number only. Skip if answer to question TO01 is no
	about yet. If so, please describe what type and how many are there. If there is no other type, type X. Skip if answer to question TO01 is no  If toilet exists in all or some of the houses of this slum or underserved area, please explain approximately how many
TO 04.	about yet. If so, please describe what type and how many are there. If there is no other type, type X. Skip if answer to question TO01 is no  If toilet exists in all or some of the houses of this slum or underserved area, please explain approximately how many persons in majority of the houses share one toilet? Enter number only. Skip if answer to question TO01 is no  If there are houses without any toilets in this slum or underserved area then where do generally men and women go
TO 04.	about yet. If so, please describe what type and how many are there. If there is no other type, type X. Skip if answer to question TO01 is no  If toilet exists in all or some of the houses of this slum or underserved area, please explain approximately how many persons in majority of the houses share one toilet? Enter number only. Skip if answer to question TO01 is no  If there are houses without any toilets in this slum or underserved area then where do generally men and women go for defecation?  1. Neighbor's toilet  2. Public toilet
	about yet. If so, please describe what type and how many are there. If there is no other type, type X. Skip if answer to question TO01 is no  If toilet exists in all or some of the houses of this slum or underserved area, please explain approximately how many persons in majority of the houses share one toilet? Enter number only. Skip if answer to question TO01 is no  If there are houses without any toilets in this slum or underserved area then where do generally men and women go for defecation?  1. Neighbor's toilet 2. Public toilet 3. Open defecation
TO 04.	about yet. If so, please describe what type and how many are there. If there is no other type, type X. Skip if answer to question TO01 is no  If toilet exists in all or some of the houses of this slum or underserved area, please explain approximately how many persons in majority of the houses share one toilet? Enter number only. Skip if answer to question TO01 is no  If there are houses without any toilets in this slum or underserved area then where do generally men and women go for defecation?  1. Neighbor's toilet 2. Public toilet 3. Open defecation 4. Other
TO 04.	about yet. If so, please describe what type and how many are there. If there is no other type, type X. Skip if answer to question TO01 is no  If toilet exists in all or some of the houses of this slum or underserved area, please explain approximately how many persons in majority of the houses share one toilet? Enter number only. Skip if answer to question TO01 is no  If there are houses without any toilets in this slum or underserved area then where do generally men and women go for defecation?  1. Neighbor's toilet 2. Public toilet 3. Open defecation 4. Other  PART H, I & J
TO 04.	about yet. If so, please describe what type and how many are there. If there is no other type, type X. Skip if answer to question TO01 is no  If toilet exists in all or some of the houses of this slum or underserved area, please explain approximately how many persons in majority of the houses share one toilet? Enter number only. Skip if answer to question TO01 is no  If there are houses without any toilets in this slum or underserved area then where do generally men and women go for defecation?  1. Neighbor's toilet 2. Public toilet 3. Open defecation 4. Other

	area then type X
TH 01c.	How many houses of this slum or underserved area have Pacca type of infrastructure as the main residential area of the household? If yes then enter answer in number only. If there are no Pacca houses in this slum or underserved area then type X
TH 01d.	How many houses of this slum or underserved area have mixed type of infrastructure (partially Pacca and partially Kacha) as the main residential area of the household. If yes then enter answer in number only. If there are no houses having mixed infrastructure in this slum or underserved area then type X
TH 01e.	How many houses of this slum or underserved area have tented type of infrastructure as the main residential area of the household? If yes then enter answer in number only. If there are no tented houses in this slum or underserved area then type X
TH01f	Are there houses in this slum or underserved area having infrastructure other than explained in earlier questions as the main residential area of the household? If yes then enter answer in number. If there are no houses constructed in infrastructure other than explained above in this slum or underserved area then type X
SWM 01a	Are there any paved or unpaved drains in this slum or underserved area. If the answer to this question is no then skip question SWM01b  1. Yes  2. No
SWM 01b	What is the condition of drains regarding disposal of waste water?  1. Drains have running water  2. Drains are filthy  3. Drains are choked  4. Any other
SWM02a.	Is there any system available for disposal of solid waste in this slum or underserved area? If the answer to this question is no then question SWM02b will be skipped 1. Yes 2. No
SWM 02b.	What is the system for the disposal of solid waste in this slum or underserved area? Type a number to select from the following list. Skip this question if answer to the question SWM02a is no  1. Government/WMC vehicle comes to pick  2. Welfare organisation arrange disposal with some intervals  3. Residents dump it on an empty plot  4. Residents throw it on streets  5. Any other
ED 01.	Are there schools in this slum or underserved area? If the answer to this question is no then skip questions ED02a to ED03a  1. Yes  2. No
ED02a.	Are there schools by government? Skip this question if the answer to question ED01 is no 1. Yes 2. No
ED02b.	Are there for profit schools by private sector? Skip this question if the answer to question ED01 is no 1. Yes 2. No
ED02c.	Are there schools by welfare trust or charity? Skip this question if the answer to question ED01 is no 1. Yes 2. No
ED02d.	Are there any Maktab schools by religious group(s)? Skip this question if the answer to question ED01 is no 1. Yes 2. No
ED02e.	Are there any other type of schools which are not explained while answering earlier questions? If yes, please describe what type of schools in meaning full text and correct spellings. If there are no schools types, which are not explained in earlier questions, then type X. Skip this question if the answer to question ED01 is no
Ed03a.	What is the approximate distance of nearest school (it could be any type of school) from the centre of the slum or underserved area? Type a number to select: Skip this question if the answer to question ED01 is no  1. Less than 1 km  2. Between 1-2 km
	3. Between 2-3 km 4. Between 3-4 km 5. More than 4 km  PART K
CSO01.	Are there any not for profit registered welfare or charity organisation working in this slum or under served area (NGOs-CSOs)? If the answer to this question is no then skip questions from CSO02 and CSO03.  1. Yes 2. No
CSO02	If registered not for profit organisations are working in this slum or underserved area, please mention its number? This question will be answered if the answer to question CSO01 is yes otherwise type X. Skip this question if answer to the question CSO1 is no
CSO03	If registered not for profit organisations are working in this slum or underserved area, please share their full names in correct spellings. Skip this question if the answer to question CSO01 is no
CSO04	Are there any informal groups or committee working in this slum or underserved area? If answer to this question is no then skip question CSO05  1. Yes  2. No

	Do the informal groups/committees include the following. Skip this question if the answer to the question CSO04 is
	no
	1. Health committee
	2. School committee
CSO05	3. Masjid/church committee
	3. Jirga or Punchait
	4. Zakat committee
	5. Unregistered Community Based Organisation
	6. If other than stated above then explain in meaningful text in correct spellings
	Are there any public welfare schemes or initiatives by government? If answer to this question is no then skip
CSO06a	questions CSO06b, CSO06c, CSO06d, CSO06e, CSO06f
CS006a	1. Yes
	2. No
	Does the government provide a loan scheme? Skip this question if the answer to the question CSO06a is no
CSO06b	1. Yes
	2. No
	Does the government provide a stipend scheme?
CSO06c	1. Yes
	2. No
	Does the government provide a Social Benefit Card scheme? Skip this question if the answer to the question
CSO06d	CSO06a is no
C3C000	1. Yes
	2. No
	Does the government provide a vocational skills scheme? Skip this question if the answer to the question CSO06a
CSO06e	is no
000000	1. Yes
	2. No
	Are there any other types of government scheme for the welfare of people of slum or underserved area, which is not
CSO06f	explained in the answers of earlier questions? If the answer is yes, please explain it in a meaningful text and correct
	spelling and if there is no other type of welfare scheme by the government then type X.
Please ente	er names and mobile phone numbers of participants of this group discussion (minimum three names and numbers
required).	
	Participant 1 name Participant 1 number
	Participant 2 name Number
	Participant 3 name Number

# Annex 2: Questionnaire for Compiling Health Resource in Union Councils

	INFORM						Ŭ						
	. Date:							′/ 201_					
		f Interviewer						/ 201_					
		re of Interviewe	er										
BS 04	. Name of	f Province:											
	. Name of												
		f Town / Tehsil											
		me of Union C											
		ny Union Counc		this citv?	Please	include all	Num	nber					
towns	of this city	у.		•									
TI 02.	Enlist nev	w and old name	es and nur	mber of a	all the Ur	nion Counci	s of this	city for eac	h town				
#		st of New Nam	ne of Unio			d name of		List of New		-	t of Old		ber of
	Co	ouncil		Un	ion Cou	uncii	<u> </u>	Union Cou	ncii	Uni	ion Co	uncii	
TI 03.	Enlist Uni	ion Council wis	se names o	of slum o	r unders	served area	if availa	ble. (you m	ay attach	separate lis	st of slu	ms or ເ	underserved
	n case of l	long list)							,	'			
#	Ne	w Names of U	Jnion Cou	ıncil		Name of s	lums		Name o	f underser	ved are	ea	
									I				
TI 04.	What is th	he population i	n each Un	ion Coun	ncil? (Kir	ndly mentior	popula	tion includir	ng and exc	luding pop	ulation	of slum	n or
unders	served are	ea). Please de								• • •			
#		lew Names of		opulation				of Union (					lation of
	U	Inion Council	un	nderserv	ed area	Pop	oulation	of Slum o	r underse	rved are	Unio	n Cou	ncil
HF 01		ny Public Heal											
#	N	lames of Unio	n Council	l		List of Pub	ic Heal	th					
						Facilities							
HF 02	How ma	ny Public Heal	th Facilitie	s are loc	ated in s	slum or und	erserve	d areas?					
HF 02		ny Public Heal  Names of Un		s are loca					List o	f Private		Total	
		Names of Un	ion N		slum o	r Lis		d areas? blic Health		f Private n Facilities		Total	
	New	Names of Un	ion N	Name of	slum o	r Lis	t of Pu				;	Total	
#	New Cou	Names of Un	ion N	Name of underser	slum oi rved are	r Lis ea Fa	t of Pul cilities	blic Health			i	Total	
# HF 04	New Cou	Names of Unincil  Lady Health	nion N	Name of underser	slum oi rved are	r Lis ea Fa	at of Pul cilities nion Co	blic Health	Healtl	n Facilities	i .	Total	1
#	New Cou	Names of Un	nion N	Name of underser	slum oi rved are	r Lis ea Fa	at of Pul cilities nion Co	blic Health	Healtl	n Facilities	i	Total	
# HF 04	New Cou	Names of Unincil  Lady Health	nion N	Name of underser	slum oi rved are	r Lis ea Fa	at of Pul cilities nion Co	blic Health	Healtl	n Facilities	;	Total	
# HF 04	New Cou	Names of Unincil  Lady Health	nion N	Name of underser	slum oi rved are	r Lis ea Fa	at of Pul cilities nion Co	blic Health	Healtl	n Facilities		Total	
# HF 04 #	New Cou	Names of Unincil  Lady Health	n Worker a	Name of underser are curren	slum oi rved are	r Lis ea Fa	at of Pul cilities nion Co	blic Health	Healtl	n Facilities		Total	
# HF 04 #	. How ma	v Names of Un incil iny Lady Health ames of Union ue staff working	n Worker and Council	Name of underser are currer council	slum or rved are	r Lis ea Fa	nion Co	uncil? List of Lady Yes No	Healtl	n Facilities		Total	
# HF 04 #	. How ma	v Names of Un Incil Iny Lady Health Inmes of Union	n Worker and Council	Name of underser are currer council	slum or rved are	r Lis ea Fa	nion Co	uncil? List of Lady Yes No	Healtl	n Facilities		Total	
# HF 04 # HF 06	. How ma Na	v Names of Un incil iny Lady Health ames of Union ue staff working	n Worker and Council	Name of underser are currer council	slum or rved are	r Lis ea Fa	nion Co	uncil? List of Lady Yes No	Healtl	n Facilities		Total	
HF 04 #  HF 06 HF 7. NUTR	. How ma Na	v Names of Un incil any Lady Health ames of Union ue staff working en how many s	n Worker an Council	Name of underser are currer council ers are w	slum or rved are ntly activ	r Lis	nion Co	uncil? List of Lady Yes No	Healtl	n Facilities		Total	
HF 04 #  HF 06 HF 7. NUTR	. How ma Na	v Names of Un incil iny Lady Health ames of Union ue staff working	n Worker an Council	Name of underser are currer council ers are w	slum or rved are ntly activ	r Lis	nion Co	uncil? List of Lady Yes No	Healtl	n Facilities		Total	
HF 04  #  HF 06  HF 7.  NUTR  NU 01	. How ma Na Na Is Dengu	v Names of Un incil any Lady Health ames of Union ue staff working en how many s	worker and Council  g in union at taff member	name of underser  are currer  council  ers are w	slum or rved are ntly active vorking	r Lis ea Fa ve in each U	nion Co	uncil? List of Lady Yes No	Healtl	n Facilities		Total	
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Г	VA 03	. What is the number and	status of availability of current	lv active vaccinator?	
	#	New Name of Union	List of vaccinator	List of vaccinator in	List of Vaccinator in Fixed EPI Facility
		Council	in Public Health Facility	Private Health Facility	(vaccination centre) established by other than public sector organisation

### Annex 3: Questionnaire for EPI Facility Assessment

**Objective:** This questionnaire will be used for the assessment of fixed EPI Facility and undertake group interview with the facility team

	tn the facility team							
#	Identification	Answer and code						
ID1	Date of assessment							
ID2	Name of assessor							
ID3	Signature of assessor							
ID4	Name of Province							
ID5	Name of District							
ID6	Name of Town (or Tehsil)							
ID7	Name of the EDI Facility							
ID7	Name of the EPI Facility							
ID8	Record longitude and latitude of the fixed EPI Facility	Longitude Latitude						
ID9	Take photo of the fixed EPI Facility	1 – Photos taken 2 – Not taken						
#	Infrastructure							
IM1	What is the type of building (rented, owned)?							
	1 - Rented							
	2 - Owned							
	9 - Other (specify):							
#	Management							
IM2	Are Standard Operating Procedures for child immunization	is available in this facility at the time of visit?						
	1 – Yes ( <b>Assessor:</b> Please verify)	•						
	2 – Not available today							
	3 – Facility never had Standard Operating Procedures							
IM4 a	Are auto disable syringes available in this facility at the tim	e of visit?						
	1Yes							
	2No							
IM4 b	Are sharp containers available in this facility at the time of	visit?						
	1Yes							
	2No							
IM4 c	Are vaccine carrier(s) available in this facility at the time of	visit?						
	1Yes							
	2No							
IM4 d	Set of icepacks for vaccine carriers available in this facility	at the time of visit?						
	1Yes							
	2No							
IM4 e	Anything else available in this facility at the time of visit, where the same of visit, which is the visit of visit of visit of visit, which is the visit of visit of visit, which is the visit of visit of visit of visit of visit of vis	nich we have not asked about? If yes please specify and						
	if not available type X							
IM5	Does this facility has Ice Lined Refrigerator available at the	e time of visit with power supply for the storage of						
	vaccines? Please physically verify the answer.	3						
	1 – Available with power supply							
	2 – Available but no regular power supply							
	3 – Ice Lined Refrigerator is out of order							
	4 – No Ice Lined refrigerator is out of order							
IM6	Did the facility experience any problem in getting vaccines							
IM6	Did the facility experience any problem in getting vaccines 1 – No	in last one year?						
IM6	1 – No	in last one year?						
IM6		in last one year?						

#	Human Resource
EP4a	Are vaccinators available in this EPI Facility?
	1- Yes
	2- No
EP4b	If vaccinators are available, please share number of vaccinators currently providing services in this EPI facility? If
	there are no vaccinators type X
EP4c	Are LHVs available in this EPI facility
EP4d	If LHVs are available, please share number of LHVs currently providing services in this EPI facility? If there are no
	LHVs type X
EP5a	What are the timings of this fixed health facility open? type number only "8" (24 hours format)
	Opens at:
EP5b	What are the timings of this fixed health facility closed? type number only "15" (24 hours format)
	Closes at:
EP5c	What are total working hours of the facility per day? Type a number only e.g. "8"
	Total working hours

#	Environment & Facilities For The Patients
EN1	Is there any waiting area (separate for men and women patients) in the facility?
	1 – Yes, separate for men and women
	2 – Yes, mixed waiting area for men and women
	3 – No waiting area available
EN2	Is adequate seating capacity/ arrangement available in the waiting area?
	1 - Yes, has adequate seating capacity
	2 – No, seating capacity is not adequate
	9 – No seating area available /NA
EN3	Is drinking water available for patients and their attendants in the facility?
	1 – Yes
	2 - No
EN4	Is toilet facility available for both men and women patients and their attendants in the facility?
	1 – Yes, separate for men and women
	2 – Yes but NOT separate for men and women
	3 – No toilet facilities available
EN5	Is the toilet facility usable for patients and their attendants in the facility?
	1 – Yes, usable
=110	2 – Not usable
EN6	How health facility/ EPI waste is being disposed from the site
	1. Buried
	2. Burnt
	3. Burn and Buried
	4. Dumped in health facility / garbage cane
	5. Others

### Annex 4: Questionnaire for Household Coverage Survey

Objectives: To assess childhood immunization coverage rates in slums/underserved areas.

Name of Enumerator Date of Interview Select your proximos by typing the number from below, e.g., 2 for KP: 1. Pumplo 3. Ballochistan Enter Union Council name Enter the name of location Is this location a slum or underserved Is this location a slum or underserved Is the council name Please insert household head Enter name of household head Enter name of household head Enter name of proceeding the provided in	Questic	onnaire for Household Coverage Survey
Select your province by typing the number from below, e.g., 2 for KP: 1, Pumib 2, KP 3, Balochistan Enter district name Enter Union Council name Enter Union Council name Enter Union Council name Enter the name of location Is this location a sum or underserved 1; Slam Enter the name of location Is this location a sum or underserved 1; Slam Enter name of household head Enter household numbers as 1, 2, 3 etc. as you begin filling questionnaires from different households Enter Converted ID number (CID) Instructions for Supervisors: The logic of having Converted ID number (CID) is to ensure a unique ID for each HOUSEHOLD. The household number cannot be unique as different enumerators will collect data from different households on the same time and will enter household number of their own such as 1, 2, 3 etc. Choce data collection by all enumerators is completed for the day, the supervisor or Team Leader) enter CID for each of the completed interviews on the MS EXCEL sheet: The supervisor should know the last CID entered in the previous day. HHMbl. HHMbl. How many fameles are in the household? Please write your answer in numbers e.g. 2, 3, 4 HHMbl. How many different endes? Please write your answer in numbers e.g. 2, 3, 4 How many fameles are in the household? Please write your answer in numbers e.g. 2, 3, 4 How many fameles are in the household? Please write your answer in numbers e.g. 2, 3, 4 How many fameles are in the household? Please write your answer in numbers e.g. 2, 3, 4 How many fameles are in the household? Please write your answer in numbers e.g. 2, 3, 4 In a complete meaningful sentence  What language is primarily used in your house with family members? Type the correct number from below. If they choose 8: Please write which language is primarily spoken at home and not stated in the above mentioned list of any process of nomads please specify the reason for moving and write this correct spellings and complete meaningful sentence  Listence  How has the process of infrastructure of main living room/bedroo		
1. Punjab 2. KP 3. Balochistan Emer district name Emer Union Council name Emer the name of location I this location a sium or underserved 2. Underserved 2. Underserved 2. Underserved Enter name of household number as 1, 2, 3 etc. as you begin filling questionnaires from different households Enter Corverted ID number (CID) Instructions for Supervisors: The logic of having Converted ID number (CID) is to ensure a unique ID for each HOUSEHOLD. The toursehold number cannot be unique as different enumerators will collect data from different households on the same time and will enter household number of their own such as 1, 2, 3 etc. Once data collection by all households on the same time and will enter household number of their own such as 1, 2, 3 etc. Once data collection by all households on the same time and will enter household number of their own such as 1, 2, 3 etc. Once data collection by all households on the same time and will enter household number of their own such as 1, 2, 3 etc. Once data collection by all households on the same time and will enter household number of their own such as 1, 2, 3 etc. Once data collection by all households on the MS EXCEL sheet. The supervisor should know the last CID entered in the previous day.  HHMb. HHMB. Household the such that the supervisor should know the last CID entered in the previous day.  HHMb. Household them are males? Please write your answer in numbers e.g. 2, 3, 4  House many members are currently kind in your households in the bousehold?  Brook on you go up and your family members) are living here in this house/slum? Enter the duration in number of years and months, e.g. 2 years and 3 months  Brook on your go you and your family members and your family members? Type the correct spellings and complete meaningful sentence  I control the properties of the main room of the house in correct spel		=
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Is this location a slum or underserved		
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Enter Converted ID number (CID) Instructions for Supervisors: The logic of having Converted ID number (CID) is to ensure a unique ID for each HOUSEHOLD. The household number cannot be unique as different enumerators will collect data from different households on the same time and will enter household number of their own such as 1, 2, 3 etc. Once data collection by all enumerators is completed for the day, the supervisor or Team Leader) enter CID for each of the completed interviews on the MS EXCEL sheet. The supervisor should know the last CID entered. This will be continued in the following day. The supervisor will enter CIDs considering the last CID entered in the previous day.  HHMM: How many of them are males? Please write your answer in numbers e.g., 2, 3, 4  HHMM: How many of them are males? Please write your answer in numbers e.g., 2, 3, 4  HHMM: Since how long you (and your family members) are living here in this house/stum? Enter the duration in number of years and months, e.g., 2 years and 3 months  SE01  Is case of nomads please specify the reason for moving and write this correct spellings and complete meaningful sentence  Which language is primarily used in your house with family members? Type the correct number from below. If they choose 3: Please write which language is primarily spoken at home and not stated in the above mentioned list of languages  1. Urdu 2. Punjabi 3. Potohari 4. Baloch 5. Pashto 6. Sinchi 7. Siraiki 8. Other  What is type of infrastructure of main living room/bedroom of the house? If they choose 5: Please specify what is the other type of infrastructure of the main room of the house in correct spellings and complete meaningful sentence  1. Kacha 2. Pacca 3. Mixed 4. Tented 5. Other type of infrastructure  SE05  How many (living rooms and bedrooms) are in the house? (Do not include kitchen, toilet, cattle-shed etc). Please write your answer in number only e.g. 1 or 2 or 3  Is electricity available/installed in your house?  If they select 7, please specify the water source in		Enter household number.
Instructions for Supervisors: The logic of having Converted ID number (CID) is to ensure a unique ID for each HOUSEHOLD. The household unber cannot be unique as different enumerators will collect data from different households on the same time and will enter household number of their own such as 1, 2, 3 etc. Once data collection by all enumerators is completed for the day, the supervisor or Team Leader) enter CID for each of the completed interviews on the MS EXCEL sheet. The supervisor should know the last CID entered. This will be continued in the following day. The supervisors will enter CIDs considering the last CID entered. This will be continued in the following day. The supervisors will enter the cIDs considering the last CID entered. This will be continued in the following day. The supervisors will enter for many of them are males? Please were your answer in numbers e.g. 2, 3, 4.  HHMb. How many females are in the household? Please write your answer in numbers e.g. 2, 3, 4.  HHMb. How many females are in the household? Please write your answer in numbers e.g. 2, 3, 4.  HHMb. How many females are in the household? Please write your answer in numbers e.g. 2, 3, 4.  HHMb. How many females are in the household? Please write your answer in numbers e.g. 2, 3, 4.  HHMb. How many females are in the household? Please write your answer in numbers e.g. 2, 3, 4.  HHMb. How many females are in the house write your answer in numbers e.g. 2, 3, 4.  HHMb. How many females are in the house write your answer in number of years and months, e.g. 2, years and 3 months.  SEO2 Please write which language is primarily spoken at home and not stated in the above mentioned list of languages.  His plantage is primarily used in your house with family members? Type the correct number from below. If they choose 5: Please specify what is the other type of infrastructure of main living room/bedroom of the house? If they choose 5: Please specify what is the other type of infrastructure of the main room of the house in correct spellings		Please insert household numbers as 1, 2, 3 etc. as you begin filling questionnaires from different households
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HHMb How many members are currently living in your household? HHMb How many of them are males? Please write your answer in numbers e.g. 2, 3, 4 HHMb How many females are in the household? Please write your answer in numbers e.g. 2, 3, 4  Since how long you (and your family members) are living here in this house/slum? Enter the duration in number of years and months, e.g. 2, years and 3 months  SE02 In case of nomads please specify the reason for moving and write this correct spellings and complete meaningful sentence Which language is primarily used in your house with family members? Type the correct number from below. If they choose 8: Please write which language is primarily spoken at home and not stated in the above mentioned list of languages 1. Urdu 2. Punjabi 3. Portohari 4. Balochi 5. Pashto 6. Sindhi 7. Siraiki 8. Other  What is type of infrastructure of main living room/bedroom of the house? If they choose 5: Please specify what is the other type of infrastructure of the main room of the house in correct spellings and complete meaningful sentence 1. Kacha 5. Jeaca 3. Mixed 4. Tented 5. Other type of infrastructure 5. Other type of infrastructure 5. Other type of infrastructure 6. Sindhi your answer in number only e.g. 1 or 2 or 3  How many (living rooms and bedrooms) are in the house? (Do not include kitchen, toilet, cattle-shed etc). Please write your answer in number only e.g. 1 or 2 or 3  SE06  SE07  What is the main source of water for ALL PURPOSES in your house? If they select 7, please specify the water source in words other than stated above 1. Government water supply 2. Well 3. Hand pump 4. Tube wells 5. Other What is the main source of DRINKING water? If the answer is other than specified the above please specify it in correct spelling and meaningful sentence 1. Government water supply 2. Well 3. Hand pump 4. Tube wells 5. Other 5. Other 5. Other 5. Other 5. Other Type of DRINKING water? If they select 7, please specify the water source in words other than specified the above please specify it		
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Which language is primarily used in your house with family members? Type the correct number from below. If they choose 8: Please write which language is primarily spoken at home and not stated in the above mentioned list of languages  1. Urdu  2. Punjabi 3. Potohari 4. Balochi 5. Pashto 6. Sindhi 7. Siraiki 8. Other  What is type of infrastructure of main living room/bedroom of the house? If they choose 5: Please specify what is the other type of infrastructure of the main room of the house in correct spellings and complete meaningful sentence 1. Kacha 2. Pacca 3. Mixed 4. Tented 5. Other type of infrastructure  SEO5  How many (living rooms and bedrooms) are in the house? (Do not include kitchen, toilet, cattle-shed etc). Please write your answer in number only e.g. 1 or 2 or 3  How many members were in the house yesterday including any guests? Please write your answer in number only e.g. 1 or 2 or 3  Is electricity available/installed in your house?  If they select 7, please specify the water source in words other than stated above 1. Yes 2. No  What is the main source of water for ALL PURPOSES in your house?  If they select 7, please specify the water source in words other than stated above 1. Government water supply 2. Well 3. Hand pump 4. Tube wells 5. Other  What is the main source of DRINKING water?  If the answer is other than specified the above please specify it in correct spelling and meaningful sentence 1. Government water supply 2. Well 3. Hand pump 4. Tube wells 5. Other	SE02	
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SE03 2. Punjabi 3. Potohari 4. Balochi 5. Pashto 6. Sindhi 7. Siraiki 8. Other What is type of infrastructure of main living room/bedroom of the house? If they choose 5: Please specify what is the other type of infrastructure of the main room of the house in correct spellings and complete meaningful sentence 1. Kacha 2. Pacca 3. Mixed 4. Tented 5. Other type of infrastructure How many (living rooms and bedrooms) are in the house? (Do not include kitchen, toilet, cattle-shed etc). Please write your answer in number only e.g. 1 or 2 or 3  SE06 How many members were in the house yesterday including any guests? Please write your answer in number only e.g. 1 or 2 or 3  Is electricity available/installed in your house? Please write your answer either in 1 or 2 or yes or no 1. Yes 2. No What is the main source of water for ALL PURPOSES in your house? If they select 7, please specify the water source in words other than stated above 1. Government water supply 2. Well 3. Hand pump 4. Tube wells 5. Other What is the main source of DRINKING water? If the answer is other than specified the above please specify it in correct spelling and meaningful sentence 1. Government water supply 2. Well 3. Hand pump 4. Tube wells 5. Other Do you have running water system installed in your house		
SE03   3. Potohari   4. Balochi   5. Pashto   6. Sindhi   7. Siraiki   8. Other    What is type of infrastructure of main living room/bedroom of the house? If they choose 5: Please specify what is the other type of infrastructure of the main room of the house in correct spellings and complete meaningful sentence   1. Kacha   2. Pacca   3. Mixed   4. Tented   5. Other type of infrastructure   5. Other type of in		
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5. Other  Do you have running water system installed in your house		
Do you have running water system installed in your house		
	CE40	
	SE10	

	if the answer is no then skip to question SE12
	1. Yes 2. No
SE11	If the running water system is installed in your house, then what is the duration of water availability? Please write your answer in number of hours only, e.g., 4. If there is no running water, type X
	Do you have functional or useable toilet available within your house? If the answer is no then skip to question number
SE12	SE15 1. Yes
	2. No
SE13	If you have toilet in your house, please specify its type of toilet, which is used by elder family members (not by children)? (Please check the availability of toilet if conveniently possible). Please write your answer in numbers by selecting from the stated list. If they select option 5, they will be taken to SE15  1. Flush to sewage  2. Traditional toilet  3. Open pit
0=	4. Any other type of toilet  If you do have toilet in your house, how many people share one toilet in the house? Please write your answer in number
SE14	only
SE15	If you do not have toilet in your house, where do you go for defection? If they choose 4: Please specify your answer in correct spellings and complete meaningful sentence.  1. Neighbour's toilet 2. Public toilet 3. Open defecation 4. Other
SE16	What is the primary source of income of the household? Please write your answer in numbers by selecting from the stated list. If they choose 7: Please specify the primary source of income in correct spelling and complete meaningful sentence 1. Government Job 2. Private job (factory worker, etc.) 3. Work in foreign country 4. Small business (shop keeper, etc.) 5. Work as daily wage labors 6. Taxi driver 7. Other
SE17	Do you have any type of debt burden? Yes
	No nold Survey Questionnaire Part B. It is about knowledge, behaviors and practices of mothers on immunization.
Enter C intervie other fa SD01	this questionnaire if there is more than 1 mother in this house converted ID number (CID). Please enter mother number, e.g., type "1" if its the first mother of the house you are wing. Please enter mother's mobile number if mother does not have a mobile number, please record mobile number of any mily member who lives in the same house  How old are you? Please write your answer in number of years e.g. 20, 25, 30 etc.
SD02	How many years of schooling did you finish? Please write your answer in numbers e.g. 0,1, 2, 3, 4 etc.  Are you employed outside home?
SD03	1. Yes 2. No
SD04	How many children under the age of 2 do you have? Please write your answer in number e.g. 1, 2, 3, 4 etc.
KP01	Have you ever heard of childhood vaccination or immunization or EPI from any of the sources? If the answer is no then please skip to question KP04a  1. Yes  2. No
KP02	Please tell us the purposes of vaccinating or immunizing children? If they select option 2, please specify the purpose of vaccination in a correct spelling and complete meaningful sentence  1. To protect from diseases  2. Other purpose  3. Do not know
KP03	What is your preferred channel for receiving information on childhood vaccination?  1. TV  2. Radio 3. Bill Board/Poster  4. Leaflet 5. Health Worker 6. Other
KP04	Have you gotten your children immunised? If the answer to this question is no then skip questions CH04-C11 1. Yes 2. No
KP05	If you do not get your child immunised, please share reason for not getting your child immunised?  1. Was not aware of EPI/outreach facility 2. Did not know the timing/hours 3. Did not have time to go 4. No enabling environment in EPI facility 5. Transport cost/opportunity cost 6. Family/husband did not allow 7. Fear of injection 8. It is haram 9. It causes more diseases 10. Wastage of time

	11. Other
KP06	Have you ever heard of Lady Health Workers (LHWs) working in your area? 1. Yes 2. No
KP07	Please tell us what they (LHWs) do? (As the interviewer, do not read the following options to the respondent.  1. Promote health education 2. Supply FP methods 3. Treat illness 4. Refer to hospital 5. Vaccinate/help vaccinator 6. Don't know
	d Questionnaire Part C. It is about immunization status of children under 2. For each child ask her mother to be following question
CH01	What is the gender of child?  1. Male
CH02	2. Female  What is the age of child in months? If the age of the child is in days, please specify number with a word e.g.  01 year, 009 months or 15 days
CH03	Has the child ever been given vaccine? Please write your answer either in 1 or 2 or yes or no. If the answer to this question is no then skip to question CH12  1. Yes  2. No
CH04	If the child was given any vaccine, please ask the mother to show the vaccination card? If the card is available then answer yes or 1. (If card is available, then use it to record immunization status of the child below. Ask the following question if the child has not received all expected doses). If card is not available then record the status of vaccination on re-call basis.  1. Yes  2. No
CH05	Has the child ever been given BCG vaccination immediately after the birth? You may ask first dose of the vaccine Please write your answer either in 1 or 2 or yes or no. Interviewer: Confirm if BCG is given by asking how was given, any scar mark on the arm of the child. The question can be filled by verifying it from the vaccination card or on recall basis  1. Yes  2. No
CH06	Has the child been given OPV to protect him/her from getting polio immediately after the birth or later? This is usually given with BCG. Please write your answer either in 1 or 2 or yes or no Interviewer: Confirm by asking more questions. The question can be filled by verifying it from the vaccination card or on recall basis  1. Yes  2. No
CH07	Has the child' been given Penta 1 at the age of 06 weeks or later? Please write your answer either in 1 or 2 or yes or no. Interviewer: Confirm by asking more questions. The question can be filled by verifying it from the vaccination card or on recall basis  1. Yes  2. No
CH08	Has the child' been given Penta 2 at the age of 10 weeks or later? Please write your answer either in 1 or 2 or yes or no. Interviewer: Confirm by asking more questions. The question can be filled by verifying it from the vaccination card or on recall basis 1. Yes 2. No
CH09	Has the child' been given Penta 3 at the age of 14 weeks or later? Please write your answer either in 1 or 2 or yes or no. Interviewer: Confirm by asking more questions. The question can be filled by verifying it from the vaccination card or on recall basis 1. Yes 2. No
CH10	Has the child' been given Measles 1 at the age of 09 months or later? Please write your answer either in 1 or 2 or yes or no. Interviewer: Confirm by asking more questions. The question can be filled by verifying it from the vaccination card or on recall basis 1. Yes 2. No
CH11	Has the child' been given Measles 2 at the age of 15 months or later? Interviewer: Confirm by asking more questions. The question can be filled by verifying it from the vaccination card or on recall basis  1. Yes  2. No
CH12	Does this mother have another child under 2 years of age?  1. Yes 2. No  If the answer is yes, please fill the section C of the questionnaire for the 2 <sup>nd</sup> child.

# Annex 5: Analysis of Profiling of Slums/Underserved Areas

Table 1:	Number of Slums and Underserved							
Cities		Slums	Underserved	Sub Total				
Quetta		281	34	315				

Table 2:	Timeframe Existence of Slums									
Cities		Before 1950	1950-1990	1991-2005	After 2005	Total				
Quetta		25	174	58	24	281				

Table 3:	Registration Status of Slums									
Cities		# of slums in each city	Registered slums	Unregistered slums	Sub Total					
Quetta		281	120	161	281					

Table 4:	Population			
Cities		Population in Slums	Population in Underserved Areas	Sub Total
Quetta		633,508	78,896	712,404

Table 5a:	Types of Residents in Slums							
Cities	Permanent Resident	Temporary Displaced	Other Nationality	Total				
Quetta	79,890	6,464	4,798	91,152				
Table 5b:	Types of Residents in Unde	rserved						
Cities	Permanent Resident	Temporary Displaced	Other Nationality	Total				
Quetta	6,527	681	1,372	8,580				
Table 5c:	Types of Residents in Slur	ns and Underserved (Total)		·				
Cities	Permanent Resident	Temporary Displaced	Other Nationality	Total				
Quetta	86,417	7,145	6,170	99,732				

Table 6:	Number	Number of Health Facilities										
		Slums Underserved										
Cities	Public	Private	Welfare/Trust	Other	Total	Public	Private	Welfare/Trust	Other	Total	Grand Total	
Quetta	13	5	0	0	18	1	0	0	0	1	19	

Table 7a:	a: Slums having Private and Public Health Facilities									
Cities	With Public Health Facilities	With Private Health Facilities	With Both Public and Private Health Facilities	Total	Without any Health Facilities	Total				
Quetta	13	5	0	18	263	281				

Table 7b:	Table 7b: Underserved having Private and Public Health Facilities										
Cities	With Public Health   With Private Health   With Both Public and Private   Total   Without any Health   Facilities   Facilities   Total   Facilities   Total   Facilities   Total   Tot										
Quetta	1	0	0	1	33	34					

Table 7c:	le 7c: Slums and Underserved having Private and Public Health Facilities										
Cities	With Public Health Facilities	With Private Health Facilities	With Both Public and Private Health Facilities	Total	Without any Health Facilities	Total					
Quetta	14	5	0	19	296	315					

Table 8a:									
Cities		0-2km	3km	# of Slums Without Private Health Facilities	Subtotal				
Quetta		3	0	278	281				

Table 8b:	Average Distance between Private Health Facilities and Underserved								
	0-2km	0-2km 3km # of Underserved Without Private Health Facilities Subtotal							
Quetta	0	0	34	34					
Table 8c:	Average Distanc	e between Private Heal	th Facilities and Slums/Underserved (Total)						
Cities	0-2km	3km	# of Slums/Underserved Without Private Health Facilities	Subtotal					
Quetta	3	0	312	315					

Table 9: E	PI Facilities					
0'''	Slums		Underserved Areas		Slums/Underserv	ed Total
Cities	Available		Available	Not Available	Available	Not Available
Quetta	19	262	2	32	21	294

Table 10a:	Table 10a: Distance Between EPI Facilities and Slums									
Cities	0-2km	3km	4km	5+km	Slums without EPI facility	Total				
Quetta	17	2	0	0	262	281				

Table 10b:	e 10b: Distance Between EPI Facilities and Underserved (Total)								
Cities	0-2km	3km	4km	5+km	Slums without EPI facility	Total			
Quetta	1	0	1	0	32	34			

Cities		0-2kr		n Fixed E	3km		4km			5+km	(		without	EPI facility	Total
Quetta			18			2		1			0			294	3
Table 11a:	Outre	ach of	Vacc	ination S									T = -	-1 // -1 01	
Cities Quetta					101	with	Outreach						28	al # of Slums	5
zuella					101								20	l	
Table 11b:	Outre	ach of	Vacc	ination S	ervice	s in L	Jnderserv	/ed							
Cities					Unde	erserve	ed with Ou	utreac	:h				Total U	Inderserved	
Quetta					12								34		
Table 11c:	0	ah af \	/aaaii	nation Se	i.	in Cl			,,,,,d /T.,	401\					
Cities	Outrea	ch or v	accii	nation Se			erserved v						Total 9	Slums/Unders	erved
Quetta					113	<i>5</i> , <b>0</b> 11 <b>a</b> 0	31001104		atroaori				315	710111070110010	,0110u
Table 12a:	Lady	Health		ker in Slu									T .	1.01	
Cities			_	.HWs Cov 14	ered		LHWs U	ncove	ered				_	al Slums	
Quetta			9	14			107						281		
Table 12b:	Ladv	Healtl	n Wor	rker in Un	derse	rved									
Cities			_	HWs Cove				LHV	Vs Unco	vered			Tota	al Underserve	ed
Quetta			1	1				23					34		
Table 40s	ا ما ا	Haski	. \A/	الم ما المعاد	.m.c#!	m al = = =		-4-I\							
Table 12c:	Lady	nealti		r <b>ker in Sl</b> u HWs Cove		naers	served (T		Vs Unco	warod			Tota	al Slums/Und	erserved
Quetta			_	HVVS COVE	-i <del>c</del> u			210		vereu			315	JIUIII5/UII0	CISCIVEU
								_10					, 510		
Table 13a:	Avail	ability	of 11	22 Servic	es										
			Slun	ns					Uı	nderser	vec				erserved Areas
Cities	# of		Slum	ns With	_	lums	# of		. Uı	nderser	vec	1	serve	Slums/Un	Slums/Unders
	Slum	S	1122			Vithou 122	t Unde	rserv	- 10	ith 1122		d With 1122	nout	derserved With 1122	erved Without 1122
Quetta	281		0			81	34		0			34		0	315
Cities		# of	\	With	Withou	ut	Undersei	ved		served		Underser	ved	1.14(**)	r Slums/Unde
<b>~</b>		Slum	S		1038				With 1	038		Without 1	038	served With 1038	served Without 1038
Quetta		Slum 281	s ,	1038			34		With 1	038	_	Without 1	038		
	Deng	281	s ,	1038	1038		34			038	_		038	1038	Without 1038
Гable 14:		281 u <b>e Wo</b>	s ,	1038	1038			1		038	<u> </u>	34		1038 0	Without 1038
Гable 14:	Slur	281 <b>ue Wo</b> ns	s (	1038	1038 281	Un	derserved				SI	34 lums/Unde	erserved	1038 0	Without 1038
<b>Γable 14:</b> Cities	Slur	281 u <b>e Wo</b>	s (	1038	1038 281	Un		N	0		SI	34	erserved	1038 0 I Total	Without 1038 315
Fable 14: Cities Quetta	Slur Ava 0	281 ue Wo ns ilable	rkers	1038 D Not Availa 281	1038 281 ble	Un Ava	derserved	N	0 lot Avail		SI	34 lums/Unde	erserved	1038 0 I Total ot Available	Without 1038 315 Sub Total
Table 14: Dities Quetta Table 15a:	Slur Ava 0	281 ue Wo ns ilable s of H	rkers	Not Availa 281	1038 281 ble	Un Ava 0	derserved	N	0 lot Avail	able	SI Av	34 lums/Unde vailable	erserved N	1038 0 I Total ot Available	Without 1038 315 Sub Total
Table 14:  Dities  Quetta  Table 15a:  Dities	Slur Ava 0 <b>Type</b>	281 ue Wo ns ilable s of H acha c	rkers	Not Availa 281	1038 281 ble	Un Ava 0	derserved	N	0 lot Avail	able Kach	SI Av 0	34 lums/Unde	erserved N	1038 0 I Total ot Available 15	Without 1038 315 Sub Total
Cities Quetta Cable 15a: Cities	Slur Ava 0 <b>Type</b>	281  ue Wo ms ilable  s of H acha c 9,833	rkers    N	Not Availa 281 ng Structu	1038 281 ble   Pa   11	Un Ava 0 Slums cca ,021	derserved ailable	N	0 lot Avail	able	SI Av 0	34 lums/Unde vailable	erserved N	1038 0 I Total ot Available	Without 1038 315 Sub Total
Cities Quetta Cable 15a: Cities Quetta Cities Quetta Cities Quetta	Slur Ava 0 <b>Type</b> K 5 Type	281  ue Wo ms ilable  s of H acha c 9,833	rkers  rkers  ousing	Not Availa 281 ng Structu	ble  re in Pa 111	Un Ava 0 Slums cca ,021	derserved ailable	N	0 lot Avail	able  Kach	SI Av 0	34 lums/Unde vailable	erservec N 3	1038 0 I Total ot Available 15	Without 1038 315 Sub Total
Cable 14: Cities Quetta Cable 15a: Cities Quetta Cable 15b: Cities	Slur Ava 0 <b>Type</b> K 5 Type	281  ue Woms ilable  s of Hoacha constant of the constant of t	rkers  rkers  ousing	Not Availa 281 ng Structu	ble Pa 11 in Un	Un Ava 0 Slums cca ,021 derse	derserved ailable	N	0 lot Avail	able  Kach	SI Av 0	34 lums/Undervailable	erservec N 3	1038 0 I Total ot Available 15 Total 91,152	Without 1038 315 Sub Total
Table 14: Cities Quetta Table 15a: Cities Quetta Table 15b: Cities Quetta Cities Quetta	Slur Ava 0 Type K 5 Type K	281  ue Wo ns ilable  s of H acha c 9,833 s of Ho acha c	rkers  rkers  ousing  ousing  r Ten	Not Availa 281 ag Structuted g Structure	ble   Pa   11   Pa   7,9	Un Ava 0 Slums cca ,021 derse cca 278	derserved ailable s	N 3	0 lot Avail 4	able  Kach 20,29  Kach 602	SI Av 0	34 lums/Undervailable	erservec N 3	1038 0 I Total ot Available 15 Total 91,152	Without 1038 315 Sub Total
Cities Quetta Cable 15a: Cities Quetta Cities Quetta Cable 15b: Cities Quetta Cable 15b: Cities Quetta	Slur Ava 0  Type K 5 Type K 0  Type	281  ue Wo ms ilable  s of H acha c 9,833 s of H acha c	rkers  rkers  ousing or Ten  ousing or Ten  ousing	Not Availa 281 ag Structuted g Structure	ble   Pa   11   Pa   7,9	Un Ava	derserved ailable s	N 3	0 lot Avail 4	Kach   20,29   Kach   602	SI Av 0	Jums/Undervailable Pacca (Mix	erserved N 3	Total  Total  Total  91,152  Total 8,580	Without 1038 315 Sub Total
Cities Quetta Cities Cities Quetta Cities Quetta Cities Cuetta Cable 15b: Cities Quetta Cable 15c: Cities	Slur Ava 0  Type K 5  Type K 0  Type K 0	281  ue Wo ms ilable  s of H acha c 9,833 s of H acha c	rkers  rkers  ousing or Ten  ousing or Ten  ousing	Not Availa 281 ag Structuted g Structure	ble  re in Pa 11 in Un Pa 7,9 res in Pa	Un Ava	derserved ailable s	N 3	0 lot Avail 4	able  Kach 20,29  Kach 602	SI Av 0	34 lums/Undervailable	erserved N 3	Total 91,152 Total 8,580 Total	Without 1038 315 Sub Total
Cities Quetta Cities Cities Quetta Cities Quetta Cities Cuetta Cable 15b: Cities Quetta Cable 15c: Cities	Slur Ava 0  Type K 5  Type K 0  Type K 0	281  ue Wo ms ilable  s of H acha c 9,833 s of H acha c	rkers  rkers  ousing or Ten  ousing or Ten  ousing	Not Availa 281 ag Structuted g Structure	ble  re in Pa 11 in Un Pa 7,9 res in Pa	Un Ava	derserved ailable s	N 3	0 lot Avail 4	Kach   20,29   Kach   602	SI Av 0	Jums/Undervailable Pacca (Mix	erserved N 3	Total  Total  Total  91,152  Total 8,580	Without 1038 315 Sub Total
Cities Quetta Cable 15a: Cities Quetta Cable 15b: Cities Quetta Cable 15b: Cities Quetta Cable 15c: Cities Quetta	Sluri Ava O Type K 5 Type K 0 Type K 5 Sour	281  ue Wo ms ilable  s of H acha c 9,833 s of H acha c 9,833 ces of	rkers  It is a consistent of the consistent of t	Not Availa 281 ag Structure ited g Structure ited	1038 281 ble re in   Pa	Slums cca ,021 derse cca 978 Slum cca ,999	derserved ailable s rved	serve	lot Avail	Kach   602   Kach   602   Kach   20,96	SI Av 0	Jums/Undervailable Pacca (Mix) Pacca (Mix) Pacca (Mix)	erservec N 3	Total 91,152  Total 8,580  Total 99,732	Sub Total 315
Table 14: Cities Quetta Cable 15a: Cities Quetta Cable 15b: Cities Quetta Cable 15c: Cities Quetta Cable 15c: Cities Cuetta Cable 15c: Cities Cuetta	Slur Ava 0  Type K 5 Type K 0  Type K 5 Sour Gov	281  ue Wo ms ilable  s of H acha c 9,833 s of H acha c 9,833 ces of	rkers  It is a consistent of the consistent of t	Not Availa 281 ag Structure tted g Structure tted	ble  re in Pa 11 Pa 7,9  res in 18 er in 9	Slums cca ,021 derse cca ,078 a Slum cca ,999	derserved ailable s rved	serve	lot Avail	Kach   602   Kach   602   Kach   20,96	SI Av 0	Jums/Undervailable Pacca (Mix) Pacca (Mix) Pacca (Mix)	erservec N 3	Total 91,152  Total 8,580  Total 99,732	Without 1038 315 Sub Total
Table 14: Cities Quetta Cable 15a: Cities Quetta Cable 15b: Cities Quetta Cable 15c: Cities Quetta Cable 15c: Cities Cuetta Cable 15c: Cities Cuetta	Sluri Ava O Type K 5 Type K 0 Type K 5 Sour	281  ue Wo ms ilable  s of H acha c 9,833 s of H acha c 9,833 ces of	rkers  It is a consistent of the consistent of t	Not Availa 281 ag Structure ited g Structure ited	ble  re in Pa 11 Pa 7,9  res in 18 er in 9	Slums cca ,021 derse cca 978 Slum cca ,999	derserved ailable s rved	serve	lot Avail	Kach   602   Kach   602   Kach   20,96	SI Av 0	Jums/Undervailable Pacca (Mix) Pacca (Mix) Pacca (Mix)	erservec N 3	Total 91,152  Total 8,580  Total 99,732	Sub Total 315
Table 14:  Cities Quetta  Table 15a: Cities Quetta Table 15b: Cities Quetta Table 15c: Cities Quetta Table 15c: Cities Quetta Table 16a: Cities Quetta	Sluri Ava  O Type K 5 Type K 0 Type K 5 Sour Gov 35	281  ue Woms ilable  s of H acha co 9,833 s of H acha co 9,833 ces of ernme	rkers  In the second of the se	Not Availa 281 ag Structure tted g Structure tted ag Structure tted	ble  re in Pa 11 in Un Pa 18 res in Pa 18	Slums cca ,021 derse cca ,978 Slum cca ,999	derserved s rved ns/Unders d Water (V	serve	lot Avail	Kach   602   Kach   602   Kach   20,96	SI Av 0	Jums/Undervailable Pacca (Mix) Pacca (Mix) Pacca (Mix)	erservec N 3	Total 91,152  Total 8,580  Total 99,732	Sub Total 315
Table 14: Cities Quetta Cable 15a: Cities Quetta Cable 15b: Cities Quetta Cable 15c: Cities Quetta Cable 16a: Cities Quetta Cable 16a: Cities Quetta Cable 16a: Cities Quetta	Sluri Ava  O Type K 5 Type K 0 Type K 5 Sour Gov 35	281  ue Wo ns ilable  s of H acha c acha c acha c s of H acha c exp,833 ces of H cernme	rkers  It is a consistent of the consistent of t	Not Availa 281  ag Structure sted  g Structure sted  g Structure sted  ag Structure sted  g Structure sted	ble re in Pa 11 in Un Pa 18 res in 18 rer in S	Un Ava 0 O Slums cca ,021 derse cca ,0278 O Slums cca ,999 O Slums Ground 4 Underse cca ,999 O Slums Ground 4 Underse cca ,0999 O Slums Cca ,0999 O S	derserved ailable s rved ns/Unders d Water (V	serve	lot Avail 4  d (Total	Kach   20,29	SI Av 0 na-F 98 na-F	Jums/Undervailable  Pacca (Mix Pacca (Mix Pacca (Mix Pacca (Mix	erservec N 3	Total 91,152  Total 8,580  Total 99,732  re From Other	Without 1038 315  Sub Total 315  er Sources Of Wa
Table 14: Cities Quetta Cable 15a: Cities Quetta Cable 15b: Cities Quetta Cable 15c: Cities Quetta Cable 16a: Cities Quetta Cable 16a: Cities Quetta Cable 16a: Cities Quetta	Sluri Ava  O Type K 5 Type K 0 Type K 5 Sour Gov 35	281  ue Woms ilable  s of H acha c 9,833 s of H acha c 9,833 ces of ernme	rkers  It is a consistent of the consistent of t	Not Availa 281 ag Structure tted g Structure tted ag Structure tted	ble re in Pa 11 in Un Pa 18 res in 18 rer in S	Un Ava 0 O Slums cca ,021 derse cca ,0278 O Slums cca ,999 O Slums Ground 4 Underse cca ,999 O Slums Ground 4 Underse cca ,0999 O Slums Cca ,0999 O S	derserved s rved ns/Unders d Water (V	serve	lot Avail 4  d (Total	Kach   20,29	SI Av 0 na-F 98 na-F	Jums/Undervailable  Pacca (Mix Pacca (Mix Pacca (Mix Pacca (Mix	erservec N 3	Total 91,152  Total 8,580  Total 99,732  re From Other	Sub Total 315
Table 14: Cities Quetta Cable 15a: Cities Quetta Cable 15b: Cities Quetta Cable 15c: Cities Quetta Cable 16a: Cities Quetta Cable 16a: Cities Quetta Cable 16a: Cities Cuetta Cities Cuetta Cities Cuetta Cities Cuetta Cities Cuetta	Sluri Ava  O Type K 5 Type K 0 Type K 5 Sour Gov 35	281  ue Woms ilable  s of H acha c 9,833 s of H acha c 9,833 ces of ernme	rkers  It is a consistent of the consistent of t	Not Availa 281  ng Structure tted  g Structure tted  ng Structure tted  estic Wate ment	ble re in Pa 11 in Un Pa 18 res in 18 rer in S	Un Ava 0 Slums cca ,021 derse cca ,978 Slum cca ,999 Slums Ground	derserved ailable s rved ns/Unders d Water (V	serve	lot Avail 4  d (Total	Kach   20,29	SI Av 0 na-F 98 na-F	Jums/Undervailable  Pacca (Mix Pacca (Mix Pacca (Mix Pacca (Mix	erservec N 3	Total 91,152  Total 8,580  Total 99,732  re From Other	Without 1038 315  Sub Total 315  ar Sources Of Wa
Table 14: Cities Quetta Cable 15a: Cities Quetta Cable 15b: Cities Quetta Cable 15c: Cities Quetta Cable 16a: Cities Quetta Cable 16a: Cities Quetta Cable 16a: Cities Quetta	Slur Ava  O  Type  K 5 Type  K 0  Type  K 5  Sour  Sour	281  ue Woms ilable  s of H acha c 9,833 s of Hc acha c c s of H acha c 9,833 ces of cernme  ces of	rkers    Note	Not Availa 281  ng Structure ited  g Structure ited  ng Structure ited  estic Water comment Supply	ble  re in Pa 11 in Un Pa 18 res in 18 rer in S 7 rer in U 4	Un Ava 0 Slums cca ,021 derse cca .978 Slums Ground	derserved ailable  rved  ns/Unders d Water (V	Seerve	olot Avail 4  d (Total Hand Pu	able    Kach   20,29   Kach   602   Kach   20,90   Kach   20,90	SI Av 0 na-F 98 na-F	Jums/Undervailable  Pacca (Mix Pacca (Mix Pacca (Mix Pacca (Mix	erservec N 3	Total 91,152  Total 8,580  Total 99,732  re From Other	Sub Total 315  Sub Total 315  er Sources Of Water  Acquire From Ot Sources Of Water
Quetta  Table 14: Cities Quetta  Table 15a: Cities Quetta Table 15b: Cities Quetta Table 15c: Cities Quetta  Table 16a: Cities Quetta  Table 16a: Cities Quetta  Table 16a: Cities Quetta	Slur Ava  O  Type  K 5 Type  K 0  Type  K 5  Sour  Sour	281  ue Woms ilable  s of H acha c 9,833 s of Hc acha c c s of H acha c 9,833 ces of cernme  ces of	rkers    Note	Not Availa 281  ng Structure tted  g Structure tted  ng Structure tted  estic Wate ment	ble  re in Pa 11 in Un Pa 18 res in 18 rer in S 7 rer in U 4	Un Ava O O O O O O O O O O O O O O O O O O O	derserved ailable  rved  rved  d Water (V  served d Water (V	No. 3 3 3 3 4 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	olot Avail 4 d (Total	able  Kach 20,29  Kach 602  Kach 20,90  mp, Tul	SI Av 0 na-F 98 na-F	Jums/Undervailable  Pacca (Mix Pacca (Mix Pacca (Mix Pacca (Mix	erservec N 3	Total 91,152  Total 8,580  Total 99,732  re From Other	Sub Total 315  Sub Total 315  er Sources Of Water  Acquire From Ot Sources Of Water
Table 14: Cities Quetta Cable 15a: Cities Quetta Cable 15b: Cities Quetta Cable 15c: Cities Quetta Cable 16a: Cities Quetta Cable 16a: Cities Quetta Cable 16a: Cities Quetta	Slure Slure Ava  7 Type K 5 Type K 5 Sour Gov 35 Sour Sour	281  ue Woms ilable  s of H acha c 9,833 s of H acha c 9,833 ces of ernme  ces of V 1 rces o	rkers    Note	Not Availa 281  ng Structure ited  g Structure ited  ng Structure ited  estic Water comment Supply	ble  re in Pa 11 in Un Pa 18 res in 18 rer in S 7 rer in U 4	Un Ava O O O O O O O O O O O O O O O O O O O	derserved ailable  rved  ns/Unders d Water (V	No. 3 3 3 3 4 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	olot Avail 4 d (Total	able  Kach 20,29  Kach 602  Kach 20,90  mp, Tul	SI Av 0 na-F 98 na-F	Jums/Undervailable  Pacca (Miximum)  Pacca (Miximum)  Pacca (Miximum)  Well)	erservec N 3  (ed)  (ed)  Acqui 172	Total 91,152  Total 8,580  Total 99,732  re From Other	Sub Total 315  Sub Total 315  er Sources Of Water Acquire From Ot Sources Of Water 18

Table 17a:			Nater Availa	ability	(in case of	Gover	nment Wa							
Cities	1- <del>(</del> ho	o urs	6-10 hours	11	1-15 hours	16-2	20 hours	20+ hours	_	ums without Go upply	overnm	ent Water	Sul	b Total
Quetta	34		0	0		1		0	24	6			281	1
Table 17b:	Duration	on of V	Nater Avail	ability	(in case of	Gover	nment Wa	ter Suppl	v) in	Underserved				
					-					Slums withou	t Gove	rnment Wat	er	Sub
Cities		hours	6-10 hou		11-15 hours		20 hours	20+ hou	18	Supply				Total
Quetta Table 17c:	12 Durati	on of V	0 Nator Avail		) v (in case of	0 Gover	nmont Wa	0 tor Suppl	v) in	22 Slums/Unders	sorvod	(Total)		34
										Slums withou			er	Sub
Cities		hours	6-10 hou	-	11-15 hours		20 hours	20+ hou	rs	Supply				Total
Quetta	46		0	(	)	1		0		268				315
Table 18a:	Availa	bility o	of Househo	d Toi	lets in Slum	s								
Cities			# of House					sehold No	t Hav	ing Toilet	Total	Household		
Quetta	A.,!I.		87,028	J T.:	latin IIndan		4,124					91,152		
Table 18b: Cities	Avaiia		# of House		let in Unders	servea		sehold No	t Hav	ing Toilet	Total	Household		
Quetta			8,0	25				555		ing reliet	rotar	8,580		
Table 18c:	Availa				let in Slums	/Under								
Cities Quetta			# of House 95,0		g Toilets		# of Hous	sehold No 4,679		ing Toilet	Total	Household 99,732		
- ∠ucιlα			90,0	<i>.</i>				4,078	,			J3,1 JZ		
Table 19a:			sehold Toi		Slums									
Cities	Con	nected	with Street	Drain	10.077		Traditio	nal/Open	•	7C CE1	Sub-			
Quetta					10,377				/	76,651		87,028		
Table 19b:	Туре	of Hou	sehold Toi	et in l	Underserved	d								
Cities	Conr	nected	with Street I	Orain				nal/Open	pit		Sub-	Total		
Quetta						1,680				6,345				8,02
Table 19c:	Type	of Hou	sehold Toi	et in	Slums/Unde	rserve	d (Total)							
Cities			onnected wit				,	Traditio	nal/C	Open pit		S	ub-To	
Quetta					12	2,057				82	2,996			95,05
Table 20a:	Ave	rage #	of People	ısina	Toilet									
Cities	7.1.0				ole Using Toi	let								
Quetta		(	9											
Table 20b:	Δνε	rane #	of People i	ısina	Toilet in Un	derser	ved							
Cities	7,10				e Using Toile		rou							
Quetta		10	0											
Table 20c:	Ave				Toilet in Slu e Using Toile		d Underse	erved Are	as (T	otal)				
Cities Quetta		9	verage # 01	reopi	e Using Tolle	ŧ								
Table 21a:					t Toilet in SI					NI-1 A	Park La	0		1-1
Cities Quetta		iveignb 1	our's Toilet	3	Public Toile 2	eτ	2	pen Defe	catio	n Not App 252	licable	28	ıb-To	itai
Quotta					_					202			•	
Table 21b:					t Toilet in U	nderse								
Cities Quetta	Neig 0	jhbour'	s Toilets	Publ 0	ic Toilet		Open De	efecation		Not Applical	ble	Sub 34	-Tota	al .
Quella	U			0			U			34		34		
Table 21c:					ut Toilet in S	Slums/			)	1				
Cities		jhbour'	s Toilets		ic Toilet			efecation		Not Applica	ble		-Tota	al
Quetta	1			2			26			286		315		
Table 22a:	Con	dition	of Drains ir	Slun	ns									
Cities		ns Hav	e Running \	Vater			Are Filthy/C	Choked			as With	No Drains	_	Sub-Total
Quetta	38				1	131				112			2	281
Table 22b:	Con	dition	of Drains ir	Und	erserved									
Cities			e Running			e Filthy	//Choked	# C	f Are	eas With No Dra	ains	Sub-Total		
Quetta	11				18			5				34		
Table 22c:	Cone	dition 4	of Draine in	Slum	s and Unde	rserve	d (Total)							
Cities			nning water	Jiuil	Drains a			# of Are	eas v	vith no drains		Sub-T	otal	
Quetta	49		_		149		-	117				315	-	
			- D:	Dract	ices in Slun	16								
Table 23a:				Tract				_ ·		Frank Billi	-1.01			
Table 23a: Cities Quetta	Govt/WN			Tiaci	Other Sy			Dumpir 260	ng on	Empty Plot an	d Stree	t Total		

*Note: The opt	tion of other includes burnt and burie	d								
Table 23b:	Solid Waste Disposal Practices in Underserved									
Cities	Govt/WMC vehicle	Other Systems	Dumping on Empty Plot and Street	Total						
Quetta	8	0	26	34						
Table 23c:	Solid Waste Disposal Practic	es in Slums and Underserv	ed (Total)							
Cities	Govt/WMC vehicle	Other Systems	Dumping on Empty Plot and Street	Total						
Quetta	23	6	286	315						

Table 24a:	Schools in Slums and Underserved									
Cities	Slums			Underserved Areas						
Cities	Available	Not Available	Total Slums	Available	Not Available	Total Underserved				
Quetta	145	136	281	23	11	34				

Table 24b:	Schools in Slums and Underserved (Total)		
Cities	# of Areas With Schools	# of Areas Without Schools	Total slums/Underserved
Quetta	168	147	315

Table 25a:	Types of Schools in Slums								
Cities	Government	Private	Welfare/Trust	Maktab/Madrsa	Other	No Schools			
Quetta	109	73	8	75	0	136			

Table 25b:	Types of Schools in Underserved								
Cities	Government	Private	Welfare/Trust	Maktab/Madrsa	Other	No Schools			
Quetta	22	18	2	11	0	11			

Table 25c:	Table 25c: Types of Schools in Slums and Underserved Areas (Total)								
Cities	Government Private Welfare/Trust Maktab/Madrsa Other No Schools								
Quetta	131	91	10	86	0	147			

Table 26a:	Distance of Nearest School from Slums								
Cities	0-2km	3km	4km	5+km	Slums Without schools	Sub Total			
Cities	#	#	#	#	#	#			
Quetta	119	21	5	0	136	281			
Table 26b:	Distance of Nea	arest School from U	nderserved						
Cities	0-2km	3km	4km	5+km	Slums Without schools	Sub Total			
Quetta	22	1	0	0	11	34			

Table 26c:	Distance of Ne	Distance of Nearest School and Slums/Underserved						
	0-2km	3km	4km	5+km	Slums Without schools	Sub Total		
Quetta	141	22	5	0	147	315		

Table 27:	Availability of Working by CSOs							
0	Slums	Slums		lums Underserved Areas		Slum/Underserved Areas		
Cities	Available	Not Available	Available	Not Available	Available	Not Available		
Quetta	0	281	0	34	0	315		

Table 28a:	Types of Services by CSOs in Slums	
Types of Service	S	Quetta
Education		0
Health		0
Human Rights		0
(Micro Loans)		0
Water		0
Areas with no ch	arity organization	281
Total		281

Table 28b:	Types of Services by CSOs in Underserved Areas	
Types of Services		Quetta
Education		0
Health		0
Human Rights		0
Loans		0
Water		0
No CSO		0
Grand Total		0

Table 28c:	Types of Services by CSOs in Slums/Underserved Areas (Total)	
Types of Services		Quetta
Education		0
Health		0
Human Rights		0
Loans		0
Water		0
No CSO		281
Grand Total		281

Table 29:	29: Presence of Informal Groups						
Cities	Slums	Slums		Underserved		d (Total)	
Cities	Available	Not Available	Available	Not Available	Available	Not Available	
Quetta	42	239	2	32	44	271	

Table 30a: Type of Informal Groups in Slums				
Types of Informal Groups	Quetta			
Health Committee	0			
Jirga/Punchaiyat	16			
Masjid/Church Committee	23			
School Committee	0			
Unregistered Community-Based Organization	3			
Zakat Committee	0			
No Informal Groups or Committees	239			
Total	281			

Table 30b: Types of Informal Groups in Underserved Areas			
Types of Informal Groups	Quetta		
Health Committee	0		
Jirga/Punchaiyat	0		
Masjid/ChurchCommittee	2		
School Committee	0		
Unregistered Community-Based Organization	0		
Zakat Committee	0		
No Informal Groups or Committees	32		
Grand Total	34		

Table 30c: Types of Informal Groups in Slums/Unders	erved Areas
Types of Informal Groups	Quetta
Health Committee	0
Jirga/Punchaiyat	16
Masjid/Church Committee	25
School Committee	0
Unregistered Community-Based Organization	3
Zakat Committee	0
No Informal Groups or Committees	271
Grand Total	315

Table 31:	Availability of Welfare Scheme by Government								
	Slums		Slums Underserved Areas			Slums/Underserved			
Cities	Total Slums	Covere d	Uncovere d	Total Underserved	Covered	Uncovered	Total slums/Underserved	Covere d	Uncov ered
Quetta	281	34	247	34	0	34	315	34	281

Table 32:	Types of Welfare Schemes by Government										
Cities	Type of work		Scheme	Stipend	Scheme	Social Ben Card	efit	Vocatior Scheme	nal Skills	Other	
	• •	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
	Slum	0	2	0	2	32	2	2	0	0	2
Quetta	Underserved	0	0	0	0	0	0	0	0	0	0
	Total	0	2	0	2	32	2	2	0	0	2

### Annex 6: Analysis of Health Resources of Union Councils

Table 1:	Town Wise Number of UCs with/ without Slums/ Underserved
Quetta	
Town	Total UCs
Chiltan	24
Zarghoon	26
Total	50
Grand Total	626

Table 1b: S	Status of Slums/Underserved in Union Councils		
Cities	UCs with Slums/Underserved	UCs without Slums/Underserved	Total
Quetta	22	28	50

Table 2:	Town wise Number of UCs and Population		
Quetta		# of UCs	Population
Chiltan		24	1145777
Zarghoon		26	1301752
Total		50	2447529

Table 3:	Population of UCs	
Cities		Population
Quetta		2,447,529

Table 4:	Number of Health Facilities in UCs	
Cities		Health Facilities in Total UCs
Quetta		63

Table 4a:	UCs with/ without Health Facilities				
Cities	# of UCs with Health Facilities	# of UCs without Health Facilities	Total		
Quetta	40	10	50		

Table 5:	Number of EPI Facilities
Cities	Public EPI Facilities
Quetta	69

Table 6:	UCs with/ without EPI Facilities		
Cities	# of UCs with EPI Facilities	# of UCs without EPI Facilities	Total
Quetta	41	9	50

Table 7: Availability of Functional ILR/Refrigerator in Fixed EPI Facility				
Cities	EPIs with Functional ILR	EPIs without Functional ILR	Total	
Quetta	67	2	69	

Table 8:	Outreach Vaccination Services		
Cities	UCs with Outreach Vaccination	Total UCs	
Quetta	50	50	

Table 9a:	Nutrition Services		
Cities	Available in UCs	Not Available in UCs	Total
Quetta	9	41	50

Table 9b: T	ypes of Nu	trition Services in UC	Cs		
Cities	Fixed	Temporary Sites	School Session	Sessions by LHWs	No Nutrition Services
Quetta	1	9	9	9	41

Table 10:	Number of '	Vaccinators in Public Health Facilities	
	Cities	Total EPI Facilities	Total Vaccinators
Quetta		69	120

Table 11:	1: Number of UCs Covered by LHWs			
Cities	UCs Covered by LHWs	UCs Uncovered by LHWs	Total UCs	Total Number of LHWs
Quetta	31	19	50	516

Table 12:	Availability of Dengue Workers		
Cities	Dengue Workers Available in UCs	Dengue Workers not Available in UCs	Total UCs
Quetta	0	50	50

Annex 7: Analysis of Results of EPI Facility Assessment

Table 1:	Number of EPI Facilities				
Names of Towns		Number of UCs	UCs with EPI Facilities	Number of EPI Facilities	
Quetta					
Chiltan		24	11	29	
Zarghoon		26	11	25	
Total		50	22	54	

Table 2: Status of Ownership of Building of EPI Facilities				
City		Owned	Rented	Total
Quetta		50	4	54

Table 3: Ty	pes of EPI Facilities			
City	Government	Private	Charity	Total
Quetta	52	0	2	54
Note: There is 1 EPI Centre Other than mentioned variables				

Table 4: Average Working Hours of EPI Facilities				
City		Less than 6 Hours	6 Hours	Total
Quetta		37	17	54

Table 5: Availability of Standard Operating Procedures				
City		Available	Not Available	Total
Quetta		10	44	54

Table 6:	Availability of LHVs in EPI Faciliti	es			
City	Available	Not Available	Total	Total # of LHVs	
Quetta	32	22	54	45	
LHVs are deployed according to the status of health facility. If some facilities offer only vaccination services then LHVs are not deployed					
there as per government system.					

Table 7: Av	7: Availability of Vaccinators in EPI Facilities				
City	Available	Not Available	Total	Total # of Vaccinators	
Quetta	54	0	54	99	

Table 8: Vaccine Supplies				
Availability of Types of Vaccine Supplies				
Cities	Auto Disable Syringes	Safety Boxes/ Sharp Containers	Vaccine Carrier (s)	Icepacks
Quetta	54	54	53	50

Table 9:	Supply of Vaccines				
City		Infrequent Shortage	Frequent Shortage	No Shortage	Total
Quetta		16	3	35	54

Table 10: Availability of Ice Lined Refrigerators					
City	Available Functional Available Non-Functional Not Available Total				
Quetta	52	2	0	54	

Table 11:	Availability of Waiting Areas		
City	Gender Mixed Waiting Area	Gender Segregated Waiting Area	Total
Quetta	28	26	54

Table 12:	able 12: Seating Capacity of Waiting Areas in EPI Facilities					
City		Adequate	Inadequate	Total		
Quetta		34	20	54		
Note: 12 EPI Facilities having no waiting areas						

Table 13: Availability of Drinking Water					
City		Available		Not Available	Total
Quetta		28		26	54

Table 14:	Availability of Toilets			
City	Gender Segregated Available	Gender Mixed Available	Not Available	Total
Quetta	30	10	14	54

Table 15:	Usability of Toilet					
Cities	Useable	Not Useable	Toilet Not Available	Total		
Quetta	33	7	14	54		

Table 16:	Waste Manageme	ent Practices		
City		Buries/Burnt	WMC Vehicle	Total
Quetta		54	0	54

# Annex 8: Analysis of Household Coverage Survey

Table 1:	Sample Size					
Cities	Households	Mothers	Children			
Quetta	1782	1786	1792			
	Table 2: Gender Wise Total Children					
Table 2:	Gender Wise Total Children					
Table 2: Cities	Gender Wise Total Children  Boys	Girls	Total			

Table 3:	e 3: Number of Children of Each Mother of Less Than 2 Year of Age					
Cities	1 2 3 Total					
Quetta		1780	6	0	1786	

Table 4: Total Family Members with Gender Segregation					
Cities		Total Household members	Male	Female	
Quetta		18946	9133	9813	

Table 5:	Average Family Size		
Cities	Average Family Size	Average Male Members	Average Female Members
Quetta	11	5	6

Table 6:	Child	nildren with/without Vaccination Card							
Cities		With Card (Records)		Without Card (Recall)		Zero Dose	Total Children		
		Male	Female	Total	Male	Female	Total	2010 2000	rotal Officiation
Quetta		337	292	629	340	341	681	482	1792

Table 7:	Fully Immu	nized Children (Records +	Recall)		
Cities		Total Eligible Children	# of Fully Immunized Children	Male	Female
Quetta		1792	481	239	242

Table 8:	le 8: Fully Immunized Children (Records)									
Cities		Total Eligible Children	# of Fully Immunized Children	Male	Female					
Quetta		1792	198	97	101					

Table 9:	Table 9: Antigen Wise Coverage (Records + Recall)										
Cities	Total Eligible Children	BCG	Penta 1	Penta 2	Penta 3	Measles 1					
Quetta	1792	1271	1131	939	748	683					

Table 10: Antigen Wise Coverage (Records)									
Cities	Total Eligible Children	BCG	Penta 1	Penta 2	Penta 3	Measles 1			
Quetta	1792	624	574	486	377	343			

Table 11: Partially Vaccinated Children (Records+ Recall)										
Cities	FI (Records +Recall)	ZD	Partially Vaccinated							
Quetta	481	482	829							
Table 12: 0	Sender of Partially vaccinated Ch	ildren on Record and Rec	all Basis							
Cities	Male		Female	Total						
Quetta	438		391	829						

Table 13: Partially Vaccinated Children (Records)								
Cities	FI (Records)	With Card	Partially Vaccinated					
Quetta	198	629	431					

Table 14: Status of Zero Dose Children								
Cities	Zero Dose							
Cities	Male	Female	Total					
Quetta	252	230	482					

Table 15: Reasons of Zero Dose Children	
Reasons for Zero Dose	QTA
Mother Number of Zero Dose	482
Vaccination causes more diseases	45
Unavailability of Time for Vaccination/Wastage of time	57
Unaware of EPI/ outreach Centre	0
Unaware of Vaccination Timings	11
No Family Permission	208
Fear of Injection	40
Transport cost to EPI facility is High	55
Environment in EPI facility is not good	7
Unaware of Childhood Vaccination	78
Child Was Sick	0
No Facility Available	0

Table 16: Perception of Mothers about Purpose of Vaccination of Children								
Cities	To Protect from Disease	Other Purpose	Do Not Know	Total				
Quetta	992	223	571	1786				

Table 17: Knowledge of Mothers About Working of LHWs										
Cities	Mothers having k	nowledge	Mothers not h	aving knowledge	Tota	I				
Quetta	857	48%	929	52%	1786	100%				

Table 18:	Table 18: Types of Services Provided by LHWs (Perception of Mothers)											
Cities	Promote Health Education	Supply Family Planning Products	Refer to Hospital	Information About Immunization	Give Guidance about treatment of illness	Help Vaccinator	Don't Know	Not Applicable	Total			
Quetta	521	98	12	0	25	201	0	929	1786			

Table 19: Preferred Channels of Communication for Mothers										
Cities		T.V	Radio	Poster/Billboard	Leaflet	Health Worker	Others			
Quetta	6	604	363	303	215	561	488			

Table 20:	0: Age Range of Mothers Surveyed										
Cities	14-19	20-24	25-29	30-34	35-39	40+	Total				
Quetta	53	278	518	558	282	97	1786				

Table 21: Years of Schooling Completed by Mothers								
Cities	0	1-5	6-10	11-15	15+	Total		
Quetta	1486	131	106	62	1	1786		

Table 22: Engagement of Mothers in Livelihood Activities								
Cities	Yes	No	Total					
Quetta	76	1710	1786					

Table 23:	Commonly Spoken Languages								
Cities	Urdu	Punjabi	Potohari	Balochi	Pashto	Sindhi	Siraiki	Others	Total
Quetta	18	34	9	313	971	71	34	332	1782

Table 24: Ho	using Structures			
Cities	Kacha	Kacha-Pacca	Pacca	Total
Quetta	1006	700	76	1782

Table 25: Number of	Rooms per House					
Cities	1 Room	2-3 Rooms	4-6 Rooms	7-10 Rooms	10+ Rooms	Total
Quetta	277	994	446	59	6	1782

Table 26: A	Availability of Electricity		
Cities	Houses With Electricity	Houses Without Electricity	Total
Quetta	1615	167	1782

Table 27: Sour	ces of Water			
Cities	Government Water Supply	Ground Water	Acquire Water	Total
Quetta	486	182	1114	1782

Table 28: Dui	Table 28: Duration of Water Availability in Case of Government Water Supply									
Cities	Less than 1 hour	1-5 hours	6-10 hours	11-15 hours	16-20 hours	20+ Hours	Total			
Quetta	0	485	0	0	0	1	486			

Cities	Connecte	ed with Str	eet Drain	e	Tro	ditional	Latrine/ Ope	n Dit	ا ا	IIISAS IA/ia	hout T	oilete		Total
Quetta	704	u wiiii Sii	eet Diaiii	5	103		Lattille/ Opt	וודוו	39	Houses Without Toilets				1782
Quella	704				103	9			38					1702
Table 30: Ave	erage User	s of One	Toilet											
Cities									Average	Toilets	Users			
Quetta									10					
Table 31: Mod	des of Def	ecation in	the Cas	e of Una	vaila	hility of	Household	l Toile	ot .					
Cities	Neighbor's			c Toilet	·vana		Defecation			with Toile	ts	Total		
Quetta	1		0			38		1	1743			1782		
T-1-1-00 M-1	D ( !													
	or Professi	ernment .	Ioh Priva	te Joh V	Nork									
Cities	000 (001		gn Counti		VOIR	Sm	all Business	•	Daily \	Vage Lat	oor			Total
Quetta					384		4	34			964			178
T-1-1-00 01-1			1/0	_										
Table 33: Stat Cities	tus of Fina	nciai Deb vays / Occ			o Deb	ot, No S	avings	Savii	nge		Total			
Quetta	1288	rays / Occ	,asional)		94	)t, 140 S	avirigs	100	iigs		1782			
							ics of Zero	Dose	Childre	n				
<b>Γable 34: Edu</b> e Cities	0 (Illitera		ners of Z		<b>e Chi</b> l  05	ıdren		06—	-10	ı	11—	15	1	Total
Quetta	439	ite)		28				11	-10		4	10		482
											•			
	r Professio		regivers											
Cities	Job Hold	ers				usiness			wage L	abor	Othe	er		Total
Quetta	61			11	ь			294			7			478
Table 36: Stati	us of Finar	icial Debt	/Savings	in Hous	sehol	ds of Z	ero Dose C	hildrei	n					
Cities		ways / Occ				ot, No S		Savi						Total
Quetta	383			7:	5			20						478
Table 37: Far	mily Sizes	of Zara D	1000											
Cities	illy Sizes		Average	Family S	Size	l N	lale Membe	'S		Fema	le Me	mbers	To	tal Members
Quetta			11		0		556			2655			52	
	sing Struct		ero Dose	Childre	en	Kaaba	Dooon		1	Doogo			To	tal
Cities Quetta		Kacha 306				157	-Pacca			Pacca 15			To	
guottu		000								10				<u> </u>
able 39: Hous	eholds To	lets in Ze	ro Dose	Childre	n									
ities		Conne	ected with	Street E	Drain	Tradi	tional latrine	/Open	pit	Houses	withou	ut	To	otal
uetta		131				326			•	Toilets 21			47	7Q
uona		101				520				<u> </u>			7	<u> </u>
				nce of To	_		Houses of 2	ero D	ose Ch					
		eighbor's <sup>-</sup>	Toilets		_	Public t	oilet			Open Do	efecati	on	_	otal
ities						0	of Eully Im	muniz	red Chil	21 dren			21	
ities	0		Backgro	und Ch	aract	prietice			.cu Oilli	41 611				
ities			Backgro	und Cha	aracte	eristics	Of Fully IIII							
cities Quetta able 41: Educ		<u> </u>	•					mumz						
ities duetta able 41: Educ	ation level	of Mothe	•	<b>ly immu</b> 0105			<b>en</b> 0610	mumz	111		15	+		Total
ities luetta able 41: Educ	0 ation level	of Mothe	•	ly immu			en		1115 22		15	+		Total 480
uetta able 41: Educaties uetta	ation level	of Mothe Illiterate) 4	rs of Ful	l <b>y immu</b> 0105 31	nized	l Childr	en 0610 43				_	+		
able 41: Educaties uetta  able 41: Educaties uetta  able 42: Major	ation level 0 ( 38	of Mothe Illiterate) 4	rs of Ful	l <b>y immu</b> 0105 31	nized Immu	Childr	en 0610 43 Children		22		_	+	Tota	480
ities puetta  able 41: Educaties puetta  able 42: Majorities	ation level 0 ( 38	of Mothe Illiterate) 4 ns of Car Holders	rs of Ful	ly immu 0105 31 of Fully I	nized Immu	Childr	en 0610 43		22		_		Tota 480	480
ities puetta  able 41: Educaties uetta  able 42: Majorities uetta	ation level 0 ( 38  r Professio Job	of Mothe Illiterate) 4 ns of Car Holders	rs of Full	1y immu 0105 31 of Fully I Small B 124	nized Immu usines	Childr Inized (	en 0610 43 Children Daily wage 243	e Labo	22 or		_			480
able 41: Educaties uetta  able 42: Majorities uetta uetta  able 43: Statu	ation level 0 ( 38  r Professio Job 113  s of Finance	of Mothe Illiterate) 4 ns of Car Holders	regivers of Savings	ly immu 0105 31 of Fully I Small B 124 in Hous	Immu usines	I Children	en 0610 43 Children Daily wage 243	e Labo	22 or nildren	5	_		480	480 I
able 41: Educatities uetta  able 42: Majorities uetta uetta  able 43: Statu ities	ation level	of Mothe Illiterate) 4 ns of Car Holders Cial Debt/	regivers of Savings	ly immu 0105 31 of Fully I Small B 124 in Hous	Immu usines ehold No D	I Children	en 0610 43 Children Daily wage 243	e Labo	22 or nildren	5 avings	_		480 Tota	480 I
able 41: Educatities uetta  able 42: Majorities uetta uetta  able 43: Statu ities	ation level 0 ( 38  r Professio Job 113  s of Finance	of Mothe Illiterate) 4 ns of Car Holders Cial Debt/	regivers of Savings	ly immu 0105 31 of Fully I Small B 124 in Hous	Immu usines	I Children	en 0610 43 Children Daily wage 243	e Labo	22 or nildren	5 avings	_		480	480 I
able 41: Educatities quetta  able 42: Major ities quetta  able 43: Statu ities quetta	0   0   38   r Professio   Job   113   132   132   143   143   144   145   1	of Mothe Illiterate) 4 ns of Car Holders 3 cial Debt/s	regivers of Savings / Occasion	ly immu 0105 31 of Fully I Small B 124 in Hous	Immu usines ehold No D	I Childr Inized ( SS Is of Fu Debt, No	en 0610 43 Children Daily wage 243	e Labo	22 nildren	5 avings	0		480 Tota 480	480 I

188

Kacha-Pacca

2373

Quetta

Cities

Quetta

Table 45:

10

Kacha

269

Housing Structures of Fully immunized Children

4929

Total

480

2556

Pacca

23

Table 46:	Households Toilets in Fully Immunized	d Children		
Cities	Connected With Drains	Traditional latrine/open pit	Houses without Toilets	Total
Quetta	212	260	8	480

Table 47: N	Table 47: Modes of Defecation in the Absence of Toilets in the Houses of Fully Immunized									
Cities		Neighbor's Toilets	Public toilet	Open Defecation	Total					
Quetta		0	0	8	8					









