



# POVERTY MAP OF BANGLADESH 2022

Small Area Estimation  
District and Upazila Results



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**BANGLADESH BUREAU OF STATISTICS**

Statistics and Informatics Division, Ministry of Planning  
Government of the People's Republic of Bangladesh

# POVERTY MAP OF BANGLADESH 2022

## Small Area Estimation District and Upazila Results

December 2024, Dhaka

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**Small Area Estimation**  
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# ACRONYMS

|          |   |
|----------|---|
| BBS      | Bangladesh Bureau of Statistics                               |
| CAFE     | Computer Assisted Filed Entry                                 |
| CAPI     | Computer Assisted Personal Interviewing                       |
| CensusEB | Census-Empirical Best   |
| COICOP   | Classification of Individual Consumption According to Purpose |
| CV       | Coefficient of variation                                      |
| EB       | Empirical Best  |
| ELL      | Elbers, Lanjouw and Lanjouw                                   |
| GIS      | Geographic Information System                                 |
| GLS      | Generalized Least Squares                                     |
| HIES     | Household Income and Expenditure Survey                       |
| ICMS     | Integrated Census Management System                           |
| LL       | Lower Limit   |
| LPL      | Lower Poverty Line  |
| MSE      | Mean Squared Errors   |
| NOC      | Network Operations Centre                                     |
| PAPI     | Paper-and-Pencil Interviewing                                 |
| PHC      | Population and Housing Census                                 |
| PLS      | Poverty and Livelihood Statistics Cell                        |
| Q1       | First Quintile  |
| Q2       | Second Quintile   |
| Q3       | Third Quintile  |
| Q4       | Fourth Quintile   |
| Q5       | Fifth Quintile  |
| SAE      | Small Area Estimation   |
| SDGs     | Sustainable Development Goals                                 |
| SE       | Standard Error  |
| UL       | Upper Limit   |
| UPL      | Upper Poverty Line  |
| WB       | The World Bank  |
| WFP      | The World Food Programme                                      |





# FOREWORD

Poverty Maps serve as a pivotal instrument for accurately identifying underserved and impoverished areas, thereby informing policymakers, planners, researchers, and development partners to gain a nuanced understanding of geographical variation and spatial inequality in growth and poverty. The 'Poverty Map of Bangladesh 2022' utilize model-based indirect estimation techniques to address the increasing demand for updated and disaggregated poverty estimates at granular levels, such as district and upazila levels. While direct poverty estimates are available at the division level through the Household Income and Expenditure Survey (HIES) 2022, conducted by BBS, the Poverty Maps provide further insights by offering more localized data.

The Bangladesh Bureau of Statistics (BBS), in collaboration with the World Bank (WB) and the World Food Programme (WFP), initiated this comprehensive exercise to produce and disseminate the Bangladesh Poverty Maps 2022. This initiative involved the rigorous review of data by the Poverty Mapping Working Group, and Technical and Steering Committees, both composed of professionals and subject matter experts. The BBS, WB and WFP jointly estimated poverty and necessary maps for key sub-national administrative units of Districts and Upazilas of Bangladesh. These estimates are derived using the Household Income and Expenditure Survey 2022 and the Population and Housing Census (PHC) 2022, alongside applying the latest guideline of the World Bank on Small Area Estimation (SEA) methodology (CensusEB).

These latest poverty maps are expected to significantly enhance the targeting of policy interventions and programs by providing a more precise understanding of the local context. With strong commitment, sound policies, and effective coverage, we are well-positioned to work towards a brighter future for the people of Bangladesh. Our enhanced knowledge and data-driven insights will enable us to implement targeted and impactful interventions to reduce poverty and promote equity and sustainable development.

As we present the 'Poverty Map of Bangladesh 2022', we extend our gratitude to all the professionals, experts, and partners who contributed to this gigantic effort. We look forward to continuing and expanding this collaboration to explore the poverty situation of the country to overcome the development challenges and eradicate poverty in all its forms. We appreciate BBS, WB, and WFP officials who are engaged to accomplish this huge task by reducing the time significantly compared to earlier exercises.


Together, we can build a more equitable and prosperous Bangladesh.



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Bangladesh Bureau of Statistics



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World Food Programme, Bangladesh



# ACKNOWLEDGEMENTS

Bangladesh Bureau of Statistics (BBS) published the first 'Poverty Maps of Bangladesh 2000' in 2004 to display the poverty situation of the country at district and upazila levels based on HIES 2000 and the 5% sample dataset of the Population & Housing Census 2001. Later on, after completion of each HIES i.e. HIES 2005, HIES 2010 and HIES 2016, BBS prepared the poverty maps accordingly. The World Food Program (WFP) and the World Bank (WB) are two very important long-standing partners in these tasks.

The HIES and the Population & Housing Census datasets are the basis of preparing poverty maps at the district and upazila levels by using the Small Area Technique (SAE). It is important to mention that poverty pictures are highly demanded by the stakeholders at the granular level. However, BBS has conducted the HIES 2022 from 01 January to 31 December 2022 and the Population & Housing Census 2022 during 15-21 June 2022 which is a coincidence for preparing 'Poverty Map of Bangladesh 2022'. This year BBS has followed the CensusEB method according to the World Bank's latest guideline of SAE.

I would like to extend my gratitude to Dr. Wahiduddin Mahmud, Honorable Adviser, Ministry of Planning, and Mr. Md. Mahbub Hossain, Secretary, Statistics and Informatics Division (SID), Ministry of Planning for their kind support and guidance. Special thanks to Mr. Mohammed Mizanur Rahman, Director General, Bangladesh Bureau of Statistics (BBS), for his invaluable suggestions. Our gratefulness to all respected members of the Working Committee, Editors Forum, Technical Committee, Report Review Committee, Report Scrutiny Committee, and Steering Committee for their valuable comments, suggestions, and directives to accomplish this effort efficiently.

I must convey my heartfelt thanks to the WFP for their financial and technical support, particularly in generating the poverty maps and valuable contributions to this report. We are indebted to the Poverty and Equity Global Practice, WB team for providing necessary technical support, hands-on training and valuable contribution to preparing this report. My sincere appreciation to the members of the PLS Cell, BBS, relevant officials of BBS and SID for their persistent hard work to do this highly technical task successfully by reducing the time remarkably compared to all previous poverty map exercises done by BBS.

I believe this effort will be meaningful if the 'Poverty Map of Bangladesh 2022' report would somehow be useful to policy-makers, development partners, researchers, NGOs and other users. BBS would appreciate it if you could provide any valuable comments, suggestions or opinions to improve our future endeavors.



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# INTRODUCTION

## 1.1. BACKGROUND

Bangladesh Bureau of Statistics (BBS) conducted the first round of Household Expenditure Survey (HES) in 1973. The latest i.e. the 17th round of HIES was held in 2022. National and Divisional level (rural and urban) poverty Head Count Rates (HCR) are generated directly from the HES/HIES survey datasets. However, the District and Upazila level poverty rates are highly demanded by the policy makers, development partners and the researcher's community too. To meet the stakeholder's high expectations, BBS started publishing the District and Upazila poverty pictures by using the Small Area Estimation (SAE) technique with the collaboration of WFP and WB since 2000. However, the survey figures show that the poverty has undergone a profound shift from a high 48.9 percent in 2000, the poverty rate plummeted to 18.7 percent by 2022.<sup>1</sup> Despite these strides, marked disparities persist across different geographical areas and communities. Understanding these spatial disparities is crucial for formulating effective policies tailored to address these multifaceted challenges. The 'Poverty Map of Bangladesh 2022' provides a detailed poverty distribution across the country, embodying Bangladesh's enduring commitment to poverty alleviation. It is worth to mention here that the only exception was HIES 2016 where the National, Divisional and also the District HCRs were given directly from the survey and the Upazila level figures were produced through SAE method.

The traditional household surveys are invaluable for assessing poverty at national or large regional levels.<sup>2</sup> Yet, their capacity to capture the nuanced disparities in smaller or more specific areas often falls short due to many reasons including limitations in sample size. In areas where only a few households are surveyed, the results may not accurately reflect the broader local conditions, leading to a potentially skewed understanding of

---

<sup>1</sup> While earlier HIES rounds are not directly comparable to HIES 2022 due to significant improvements made in the latter, they still offer useful insights into poverty trends.

<sup>2</sup> For the 2022 HIES survey the data is representative at the national, division, and rural and urban levels. Previous surveys were also representative at the division levels apart from 2016 HIES which was representative at the Zila level.

poverty and its distribution. The SAE techniques are specifically developed to address these shortcomings by enhancing the precision of poverty estimates for smaller geographic areas or specific demographic subgroups, that traditional surveys cannot capture due to smaller sample size.

The SAE achieves this enhanced accuracy by integrating detailed survey data with auxiliary information including census data, administrative records, and potentially satellite imagery or mobile data. This methodology allows for ‘borrowing strength’ from related areas or groups, significantly increasing the reliability of the estimates where direct survey data is sparse. For instance, SAE leverages demographic and economic patterns identified in the census—which includes every household in the country—to refine and adjust poverty estimates derived from survey data.

In the development of the ‘Poverty Map of Bangladesh 2022’, SAE techniques were utilized, capitalizing on data from the Household Income and Expenditure Survey (HIES) 2022 and the Population and Housing Census (PHC) 2022. This approach facilitates the estimation of

poverty levels down to the district and upazila levels, offering a granularity that surpasses the division-level estimates typically provided by HIES 2022. The Bangladesh Bureau of Statistics (BBS), in collaboration with two international partners i.e. the World Bank (WB) and the World Food Programme (WFP), played a vital role in spearheading the production of the 2022 poverty maps.

Such detailed mapping of poverty at lower sub-national administrative units is crucial for both government and non-government organizations to allocate resources and taking interventions more effectively. By pinpointing areas of acute need and monitoring progress over time, these maps serve as a foundational tool for targeted poverty alleviation strategies. This ensures that efforts are concentrated where they are most important, promoting equitable development across diverse communities. Furthermore, these detailed measures provide policymakers with a robust mechanism to assess the effectiveness of their policies, particularly in tracking and monitoring the Sustainable Development Goals (SDGs) to be achieved by 2030.

## 1.2. OBJECTIVES

The overall objective of the ‘Poverty Map of Bangladesh 2022’ is to provide policy support to the policymakers, planners, researchers, and development partners with precise and disaggregated data on poverty, thereby enabling more effective targeting of interventions and resources.

The specific objectives are:

- To provide disaggregated poverty estimates for key sub-national administrative units.
- To enhance the understanding of spatial inequality and geographical variations in poverty.
- To support the design and targeting of policies and programs aimed at poverty reduction.
- To foster informed decision-making and resource allocation by government agencies and development partners.

## 1.3. HISTORY OF POVERTY MAPPING EXERCISES IN BANGLADESH

The genesis of poverty mapping in Bangladesh is rooted in the late 1990s and early 2000s, a period characterized by an increasing international and local interest in precise poverty alleviation strategies. During these formative years, the initiative was primarily driven by international development organizations such as WFP and the World Bank, alongside the BBS. These

initial maps were somewhat basic, relying primarily on census data and lacked integration with detailed household survey data. The first significant attempt was the production of the 2000 poverty maps, developed with technical support from Massey University, New Zealand, using data from HIES 2000 and a 5 percent sample of the Population Census 2001.

The methodology of poverty mapping saw transformative changes in the mid-2000s with the advent of Geographic Information Systems (GIS) technology. This technology change facilitated the merging of socioeconomic data with spatial characteristics, enhancing the visualization of poverty distribution across the regions of Bangladesh. During this period, there was increased collaboration between governmental and academic institutions to improve the precision and usefulness of these maps. The poverty maps of 2005, which utilized full census data from 2001 and HIES 2005 data, exemplify this evolution and collaboration with academia. In the late 2000s, more comprehensive poverty maps began to emerge under the auspices of the Government of Bangladesh and development partners. A notable achievement was the 2010 Poverty Map, developed by the BBS with technical assistance from the World Bank and the WFP, utilizing SAE techniques. This map provided detailed insights into poverty rates at the district and upazila levels, significantly enhancing the targeting of social safety net programs and national resource allocation and planning.

The sophistication of these methodologies continued to evolve with the 2016 poverty map, which incorporated the full population census data from 2011 and HIES data from 2016, despite the challenges posed by the significant time interval between the census and survey years which may have affected the relevance of some socio-demographic characteristics. The most recent iteration, the 'Poverty Map of Bangladesh 2022', represents a significant milestone, incorporating data from both the full Population and Housing Census 2022 and the HIES 2022, thus perfectly aligning the census and survey years. This edition adheres closely to the World Bank latest guidelines on SAE techniques, specifically the Census-Empirical Best (CensusEB) method, demonstrating a matured approach to capturing the complexities of poverty in Bangladesh.<sup>3</sup>

The poverty maps have become essential tools not only for guiding development initiatives but also for monitoring progress towards the SDGs, showcasing the advanced statistical methods and diverse data sources that now define poverty mapping in the country.

**Figure 1: History of Poverty Mapping Exercise in Bangladesh**



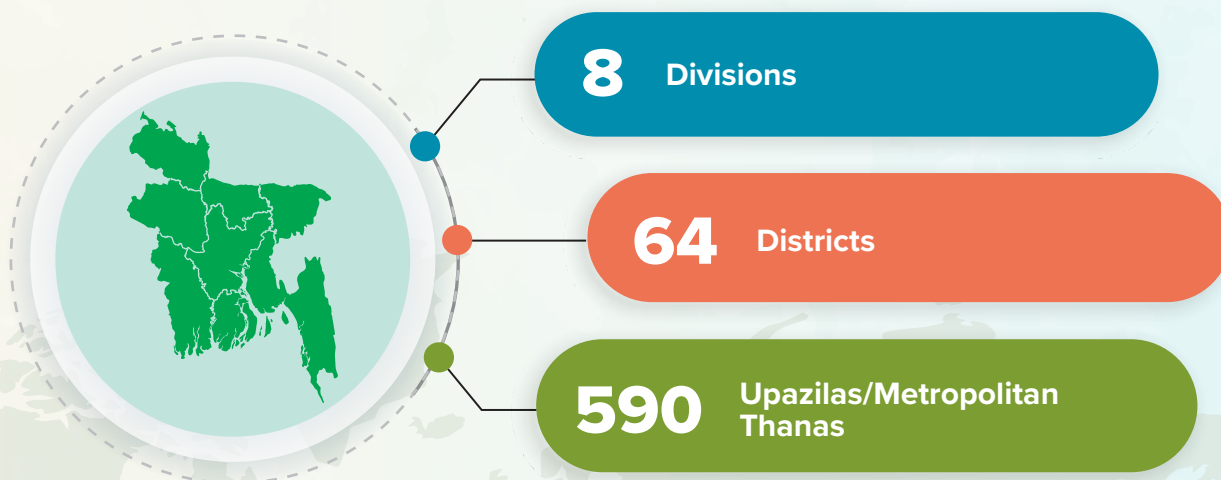
<sup>3</sup> Guidelines to Small Area Estimation for Poverty Mapping (Report); <https://openknowledge.worldbank.org/server/api/core/bitstreams/1d1fcadc-43e3-541b-8949-fea45dd2a528/content>

## 1.4. GEOGRAPHIC AND ADMINISTRATIVE UNITS 2022

The 2022 poverty maps offer extensive coverage, encompassing all 8 divisions, and extending it through SAE methodology to the 64 districts, 590 upazilas and metropolitan thanas across Bangladesh. This

comprehensive coverage ensures a thorough and detailed geographical representation of poverty within the country.

**Figure 2: Geographic and Administrative Units, 2022**







# POVERTY MAPPING METHODOLOGY

The Poverty Map 2022 for Bangladesh leverages the timely release of the Population and Housing Census 2022 and the Household Income and Expenditure Survey 2022. Additionally, it incorporates the most updated techniques on small-area estimation. Utilizing microdata from both sources, a comprehensive set of common variables is constructed to develop the poverty maps through a unit-level modeling approach. Finally, it utilizes the geospatial and Geographic Information System (GIS) mapping information collected during the PHC 2022 to produce the maps.

## 2.1. DATA DESCRIPTION

The HIES 2022 is representative at the national, division, rural, and urban levels. BBS implemented rigorous upgradation in survey design and fieldwork operation for this round, which affected the comparability of consumption and poverty over time.<sup>4</sup> The introduction of the Classification of Individual Consumption According to Purpose (COICOP) expanded the number of food and non-food items from 149 to 263 and 261 to 441, respectively. The data collection method moved from Computer Assisted Field Entry (CAFE) to Computer Assisted Personal Interviewing (CAPI). The prices were directly collected instead of deriving unit values from household total expenditure values and quantities, and weighing scales were implemented to ensure the accuracy of household consumed food items.

---

<sup>4</sup> As technology and survey design methods evolve, enhancements should be implemented. For instance, Argentina improved its survey instrument and periodicity of data collection in 2003 and most of the countries in Latin America have adopted and report their poverty estimates annually. India made several changes in the late 1990s, Peru and Ecuador made significant changes in their household surveys in 2004 and 2007, and, more recently, Zambia and Bhutan in their 2022 survey round. In the ideal situation, a proper way to implement these changes is to simultaneously conduct old and new methods and then clearly identify their differences to maintain comparability over time. However, this process could be costly, challenging, and complex, leaving most countries with two options: break trends or find an analytical way to tackle this issue after implementing the survey.

Furthermore, a more rigorous fieldwork monitoring system was implemented, residential training and refresher training were conducted for the enumerators/supervising officers throughout the year.

The Population and Housing Census of 2022, while maintaining its main objectives and characteristics, has embraced digitalization in its data collection process. The utilization of the CAPI method, alongside a web-based Integrated Census Management System (ICMS) and a Network Operations Centre (NOC), has not only

streamlined census activities but also allowed for real-time monitoring of data collection progress, thereby ensuring data quality. It further allowed BBS to prepare and release the census preliminary report within a month after the completion of fieldwork and the main report within one year. The modernization effort, complemented by traditional census campaigns and social media engagements, underscores BBS's commitment to remaining at the forefront of data collection methods.

## 2.2. IMPLEMENTATION OF SMALL AREA ESTIMATION FOR POVERTY MAPPING

The first step in constructing the poverty map involves creating a set of potential indicators that are common to both the census database (target) and the household welfare survey, e.g., HIES. For the 2022 Bangladesh poverty mapping, a total of 119 potential variables were carefully harmonized and constructed in both sources (see Annex 3). These variables encompass household demographic characteristics (such as household size, age, age composition of household members, religion, marital status, disabilities, and members living abroad), education characteristics (including literacy, educational attainment, the composition of educational attainment of household members), labor characteristics (such

as labor status, and working sector), and dwelling characteristics (like ownership, toilet type, source of drinking water, access to electricity, cooking fuel source, and roof and wall material of dwelling units, remittances, access to financial services, and access to information technology and communication).

From this initial set of potential variables, only those variables that have a close distribution from the census and survey were selected.<sup>5</sup> Census variables lying either within the survey's 95 percent confidence interval or within a normalized distance of 0.05 from the confidence interval are considered eligible variables

**Table 1: Selection of Eligible Variables by Domain**

| Domain     |       | No. variables | No. of eligible variables by normalized distance to HIES 95% C. I |      |     |      |
|------------|-------|---------------|---|------|-----|------|
|            |       |               | 0   | 0.05 | 0.1 | 0.15 |
| Barishal   | Rural | 119           | 72  | 85   | 94  | 99   |
|            | Urban | 119           | 66  | 80   | 89  | 93   |
| Chattogram | Rural | 119           | 74  | 91   | 96  | 100  |
|            | Urban | 119           | 73  | 89   | 97  | 104  |
| Dhaka      | Rural | 119           | 69  | 85   | 97  | 103  |
|            | Urban | 119           | 74  | 90   | 98  | 103  |

<sup>5</sup> Corral, Molina, Cojocar, and Segovia (2022, pp. 33) suggest that "Ideally, the mean and distribution of the covariates should be comparable..."

Table 1: Selection of Eligible Variables by Domain (*continued*)

| Domain           |       | No. variables | No. of eligible variables by normalized distance to HIES 95% C. I |      |     |      |
|------------------|-------|---------------|---|------|-----|------|
|                  |       |               | 0   | 0.05 | 0.1 | 0.15 |
| Khulna           | Rural | 119           | 75  | 94   | 100 | 106  |
|                  | Urban | 119           | 68  | 85   | 97  | 103  |
| Mymensingh       | Rural | 119           | 65  | 77   | 88  | 94   |
|                  | Urban | 119           | 66  | 81   | 92  | 97   |
| Rajshahi         | Rural | 119           | 64  | 81   | 90  | 92   |
|                  | Urban | 119           | 76  | 90   | 101 | 107  |
| Rangpur          | Rural | 119           | 67  | 86   | 95  | 99   |
|                  | Urban | 119           | 50  | 70   | 82  | 92   |
| Sylhet<br>Sylhet | Rural | 119           | 64  | 82   | 89  | 97   |
|                  | Urban | 119           | 61  | 82   | 92  | 100  |
| Average          |       |               | 68  | 84   | 94  | 99   |

Source: Estimations based on HIES 2022 and Population and Housing Census of 2022, BBS

for the modeling procedure discussed below.<sup>6</sup> Table 1 illustrates that, on average, 68 variables from the census lie within the HIES 95 percent confidence interval. This number increases to 84 if a tolerance of 0.05 of normalized distance to the confidence interval is allowed. Annex 4 provides details of this alignment exercise by variable and domain.

Small area estimates for constructing the 2022 poverty map for Bangladesh adhere to the most recent guidance from the World Bank on techniques to achieve the best unbiased empirical estimates (Corral, Molina, Cojocar, and Segovia, 2022). Previous poverty mapping exercises in Bangladesh utilized the method developed by Elbers, Lanjouw, and Lanjouw (2003), widely known as the ELL method. Over time, enhancements to the ELL method have been made to improve precision and reduce the bias of small area estimates. Recently, Corral, Molina, and Nguyen (2021) expanded upon the ELL method by introducing a new approach that incorporates Monte Carlo simulation and

bootstrapping techniques to estimate point estimates and mean squared errors (MSE), respectively. This new approach is referred to as the Census-Empirical Best (CensusEB) method.<sup>7</sup> The next section provides a brief overview of the CensusEB methodology and its key difference from the ELL method.<sup>8</sup> Accordingly, for the current 2022 poverty exercise, the latest edition of the SAE Stata code available was applied (Nguyen, Corral, Azevedo, and Zhao, 2018).<sup>9, 10</sup> The BBS team followed the guidance decision tree to decide on the modeling approach (Corral, Molina, Cojocar, and Segovia, 2022 p.13). Based on the decision tree and taking advantage of the access to same-year census and household survey microdata, the team chose a unit-level modeling approach for the estimation of small areas. Unit-level models rely on detailed household-level data on consumption from the household survey and a common set of household-level characteristics in both census and survey to simulate household-level consumption in the census data.

<sup>6</sup> There is not a general rule in the guidelines for the selection of eligible variables. BBS applied a rule of thumb approach to accomplish this step.

<sup>7</sup> In the SAE literature, there is a distinction between the Empirical-Best (EB) and the Census-Empirical Best (CensusEB) methods. While the former can only be applied if the households can be identified in both the census and survey datasets, the latter only requires identifying the locations in both data sources.

<sup>8</sup> For a full explanation of the CensusEB method refers to Corral, Molina and Nguyen (2021).

<sup>9</sup> The most updated SAE Stata package for small area estimates has been acceded on Feb 15, 2024 from <https://github.com/pcorralrodas/SAE-Stata-Package>. It includes all modules referenced in Corral, Molina and Nguyen (2020).

<sup>10</sup> An older version of SAE Stata package is obtained when users type in Stata "ssc install sae"

### 2.3. SELECTION OF CONSUMPTION MODEL

Once the set of eligible common balanced variables was defined and the modeling approach for producing small area estimates was selected, the next step involved specifying the level at which location effects are incorporated into the modeling process. Since the objective is to report poverty estimates at the upazila level (administrative level 3), the upazila-level clustering was chosen (administrative level 3) for the estimation procedure.<sup>11</sup>

The selected one-fold nested-error model for the small area estimation follows Molina and Rao (2010).<sup>12</sup> This method assumes that the transformed consumption  $y_{ch}$  for household  $h$  in location  $c$  is linearly related to a vector of household characteristic  $x_{ch}$ , location  $\eta_c$  and household-specific idiosyncratic errors  $e_{ch}$ . Both errors are assumed to be normal, independent, and identically distributed. Thus, variation in consumption  $y_{ch}$  across the population is determined by three components: the variation in household characteristics, the variation in location-specific non-observables effects, and the variation in household-specific non-observables.<sup>13</sup>

$$y_{ch} = x_{ch}\beta + \eta_c + e_{ch} \quad (1)$$

Where,  $h = 1, \dots, N_c$ ,  $c = 1, \dots, C$

$$\eta_c \sim N(0, \sigma_\eta^2), e_{ch} \sim N(0, \sigma_e^2)$$

The estimation of small areas follows a two-stage procedure. In the first stage, equation (1) is fitted according to guidelines for each of the 16 defined domains in the survey data. In the second stage, the parameters obtained in the first stage are used to simulate the welfare metric target data. For the fitting/modeling stage, the Generalized Least Squares (GLS) approach with Henderson's method III was chosen for the estimation of the variance parameters. This approach accommodates heteroskedasticity and the inclusion of survey weights.<sup>14</sup> The method will produce CensusEB small area estimates, which are more accurate and make more efficient use of the survey information in the simulation process, as shown in Corral,

Molina, and Nguyen (2021). The extended coverage of 410 out of 590 upazilas during the HIES survey makes Bangladesh a suitable candidate to fully benefit from the advantages of the CensusEB estimation method.

The CensusEB method shares many advantages with the ELL method. Additionally, it corrects the synthetic ELL estimator by accounting for location effects using survey data (Corral, Molina, and Nguyen 2021).<sup>15</sup> The magnitude of this correction depends on an adjustment factor, which measures the proportion of between-location heterogeneity variance ( $\sigma_\eta^2$ ) to the total variance in the location ( $\sigma_\eta^2 + \sigma_e^2/n_c$ ). The correction will be stronger in highly heterogeneous locations and minimal when all the heterogeneity is fully explained by auxiliary variables. If ELL fully controls existing location heterogeneity, the CensusEB reduces to the ELL estimator. Consequently, CensusEB makes more efficient use of the survey data and relies less heavily on auxiliary location-level variables. Furthermore, the CensusEB is an optimal predictor in the sense that it minimizes the MSE under the model.

For each domain, the World Bank guidelines were meticulously followed to take care of factors that may bias estimates, as described in sequential order below:

- Define a set of eligible variables (xvars) that include only those from the census and survey with a close distribution. Census variables within the survey's 95% confidence interval or a normalized distance of 0.05 from the confidence interval are considered eligible variables.
- Remove extremely low values of the dependent variable by trimming the lower 0.5%.
- Generate a shift transformation variable of the dependent variable to approximate normality to get less bias and less noisy estimates and better align to the model assumptions.
- Reduce the set of eligible variables via LASSO to address potential problems of multicollinearity and overfitting (postlasso).

<sup>11</sup> Corral, Molina and Nguyen (2021) show that specifying the random effect at a level of aggregation lower than the reporting level results in noisier estimates, though have minimal impact on bias.

<sup>12</sup> Two-folded nested-error models in SAE are available but do not accommodate survey weights or heteroskedasticity.

<sup>13</sup> The normality assumption does not imply that  $y_{ch}$  is normally distributed. It implies that conditional on observables, the residuals are normally distributed (Corral, Molina, Cojocar, and Segovia 2022).

<sup>14</sup> The alternative fitting approach using Restricted Maximum Likelihood (REML) does not accommodate survey weights or heteroskedasticity.

<sup>15</sup> This prevents the simulation stage from giving two households with identical observable characteristics but residing in two different locations the same welfare level as it does with the ELL method.

- e) Remove non-significant covariates sequentially (postsign)
- f) Model diagnostic of residuals and influential observations: Cook's distance, Leverage, and Influence based on rule of thumb criteria.<sup>16</sup>
- g) Define an alpha model for GLS estimation: i) exclude from eligible variables (xvars) those variables already included in (postsign); ii) remove non-significant ones (alfa\_postsign)

h) Fit model (1) includes an alpha model with (postsign) and (alfa\_postsign) sets of variables.

- i) Finally, remove non-significant variables (postalfa).

The second stage of producing small area estimates consists of simulating consumption for each household in the census data through Monte Carlo simulation. The procedure first calculates the point estimates with 100 repetitions. Then, it estimates MSE through bootstrap simulation with 50 replications.<sup>17</sup>

## 2.4 MODEL FITNESS

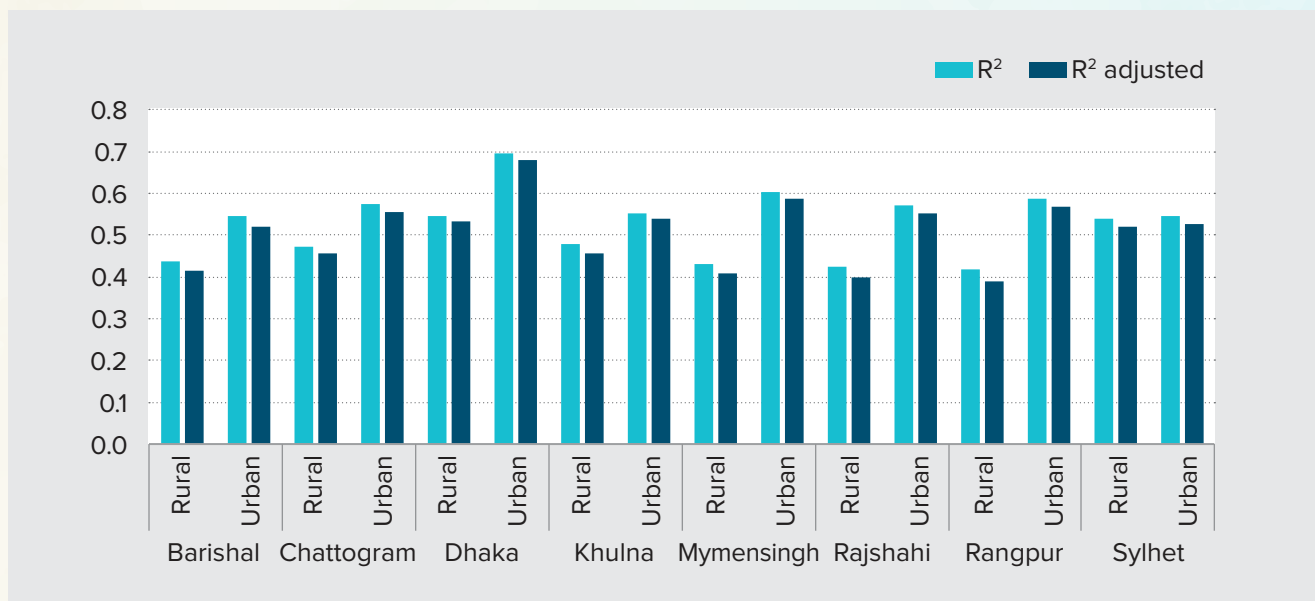
Regardless of the clustering selection, the model fitness results in Figure 3 indicate a relatively good fit for most of the domains, explaining between 40 to 70 percent of the variance of the transformed consumption metric, with urban Dhaka stands at the highest adjustment. The normality of the transformed dependent variable cannot be rejected across estimated domains as shown in Annex 5. The underlying assumptions regarding the random effects in nested model (1) are assessed by evaluating the normality of residuals and location effects. Overall, the normal Q-Q plots in Annex 6 and 7

show no dramatic deviations from normality across domains, suggesting no major departures from the nested model's assumption.<sup>18, 19</sup>

### 2.4.1. Comparisons between Point Estimates from HIES and CensusEB

Poverty headcount estimates from the 2022 HIES, conducted at domain and division levels, serve as reliable "ground truth" benchmarks. These benchmarks are essential for comparing and validating the accuracy

**Figure 3: CensusEB Model Fitness by Domain, Upazila Clustering Level, 2022**



Source: Estimations based on HIES 2022 and PHC 2022, BBS

<sup>16</sup> Influential data points are excluded as per guidelines if  $|stud.res| > 2$  and  $Cook's\ distance > \frac{4}{N}$  and  $leverage > \frac{2k+2}{N}$ .

<sup>17</sup> The simulation process tends to be computationally slow, contingent upon the processing power and available RAM, particularly when handling census microdata as extensive as that of Bangladesh.

<sup>18</sup> A normal Q-Q plots the quantiles of the sample data against the quantiles of a theoretical normal distribution.

<sup>19</sup> Keep in mind that Marhuenda et al (2017) acknowledges that achieving perfect normality is very hard when working with real census and survey data.

of poverty estimates derived from the SAE technique. Table 2 reports this comparison at the national level for rural and urban areas. The results demonstrate a reasonable alignment between HIES and CensusEB estimates once confidence intervals are considered.

Table 3 reports this comparison at the division level, albeit at a more disaggregated level. Once confidence intervals are taken into account in the assessment, the

results also show a reasonable alignment between HIES and CensusEB estimates.

Finally, Table 4 reports the correspondence between HIES and CensusEB poverty estimates at the domain level. When considering the confidence intervals, the results exhibit a relatively strong alignment. Furthermore, Figure 4 illustrates a straightforward scatter plot of HIES and CensusEB point estimates, revealing a correlation close to 0.94.

**Table 2: Direct (HIES) and Indirect (SAE) Poverty Estimates (%) by National, Rural and Urban (UPL), 2022**

|                   | HIES |     |                   |      | SAE, CensusEB |     |                   |      |
|-------------------|------|-----|-------------------|------|---------------|-----|-------------------|------|
|                   | Mean | SE  | Confidence limits |      | Mean          | SE  | Confidence limits |      |
|                   |      |     | LL                | UL   |               |     | LL                | UL   |
| Bangladesh        | 18.7 | 0.8 | 17.0              | 20.3 | 19.2          | 0.4 | 18.4              | 20.0 |
| Bangladesh, rural | 20.5 | 1.1 | 18.3              | 22.6 | 20.3          | 0.5 | 19.3              | 21.3 |
| Bangladesh, urban | 14.7 | 1.2 | 12.4              | 17.1 | 16.5          | 0.6 | 15.3              | 17.7 |

*Note:* CensusEB estimates with heteroskedasticity and sample weights. Mean=point estimate, SE=  $\sqrt{\text{MSE}}$ , LL=lower limit, UL=upper limit.

*Source:* Estimations based on HIES 2022 and PHC 2022, BBS

**Table 3: Direct (HIES) and Indirect (SAE) Poverty Estimates (%) by Division (UPL), 2022**

|            | HIES |     |                   |      | SAE, CensusEB |     |                   |      |
|------------|------|-----|-------------------|------|---------------|-----|-------------------|------|
|            | Mean | SE  | Confidence limits |      | Mean          | SE  | Confidence limits |      |
|            |      |     | LL                | UL   |               |     | LL                | UL   |
| Barishal   | 26.9 | 2.6 | 21.7              | 32.1 | 26.6          | 1.1 | 24.3              | 28.8 |
| Chattogram | 15.8 | 2.2 | 11.5              | 20.1 | 15.2          | 1.2 | 12.8              | 17.7 |
| Dhaka      | 17.9 | 2.0 | 13.9              | 21.9 | 19.6          | 0.9 | 17.9              | 21.3 |
| Khulna     | 15.1 | 1.6 | 11.9              | 18.2 | 17.1          | 0.8 | 15.4              | 18.7 |
| Mymensingh | 24.2 | 2.6 | 19.0              | 29.5 | 22.6          | 0.9 | 20.8              | 24.4 |
| Rajshahi   | 16.7 | 1.9 | 12.8              | 20.5 | 16.3          | 1.0 | 14.4              | 18.1 |
| Rangpur    | 24.7 | 1.9 | 21.0              | 28.5 | 25.0          | 1.3 | 22.4              | 27.6 |
| Sylhet     | 17.3 | 2.0 | 13.2              | 21.3 | 18.5          | 0.9 | 16.8              | 20.2 |

*Note:* CensusEB estimates with heteroskedasticity and sample weights. Mean=point estimate, SE=  $\sqrt{\text{MSE}}$ , LL=lower limit, UL=upper limit.

*Source:* Estimations based on HIES 2022 and PHC 2022, BBS

**Table 4: Direct (HIES) and Indirect (SAE) Poverty Estimates (%) by Domain (UPL), 2022**

|            |       | HIES |     |                   |      | SAE, CensusEB |     |                   |      |
|------------|-------|------|-----|-------------------|------|---------------|-----|-------------------|------|
|            |       | Mean | SE  | Confidence limits |      | Mean          | SE  | Confidence limits |      |
|            |       |      |     | LL                | UL   |               |     | LL                | UL   |
| Barishal   | Rural | 28.4 | 3.2 | 21.9              | 34.8 | 28.1          | 1.4 | 25.3              | 31.0 |
|            | Urban | 21.3 | 2.4 | 16.5              | 26.2 | 21.7          | 1.3 | 19.2              | 24.2 |
| Chattogram | Rural | 17.9 | 3.0 | 11.8              | 23.9 | 17.8          | 1.7 | 14.4              | 21.3 |
|            | Urba  | 11.3 | 2.2 | 6.8               | 15.8 | 9.9           | 1.1 | 7.7               | 12.0 |

Table 4: Direct (HIES) and Indirect (SAE) Poverty Estimates (%) by Domain (UPL), 2022 (continued)

|            |       | HIES |     |                   |      | SAE, CensusEB |     |                   |      |
|------------|-------|------|-----|-------------------|------|---------------|-----|-------------------|------|
|            |       | Mean | SE  | Confidence limits |      | Mean          | SE  | Confidence limits |      |
|            |       |      |     | LL                | UL   |               |     | LL                | UL   |
| Dhaka      | Rural | 21.7 | 3.4 | 15.0              | 28.5 | 21.4          | 1.1 | 19.2              | 23.6 |
|            | Urban | 14.3 | 2.3 | 9.7               | 19.0 | 17.4          | 1.3 | 14.8              | 20.0 |
| Khulna     | Rural | 16.5 | 2.0 | 12.6              | 20.5 | 18.7          | 1.1 | 16.6              | 20.8 |
|            | Urban | 9.9  | 1.7 | 6.4               | 13.4 | 11.9          | 0.9 | 10.2              | 13.6 |
| Mymensingh | Rural | 26.2 | 3.2 | 19.7              | 32.7 | 24.0          | 1.1 | 21.8              | 26.2 |
|            | Urban | 16.0 | 2.8 | 10.5              | 21.6 | 17.8          | 1.1 | 15.6              | 20.0 |
| Rajshahi   | Rural | 17.2 | 2.4 | 12.3              | 22.2 | 17.2          | 1.2 | 14.8              | 19.5 |
|            | Urban | 14.9 | 2.2 | 10.5              | 19.3 | 13.3          | 0.9 | 11.5              | 15.0 |
| Rangpur    | Rural | 23.6 | 2.2 | 19.2              | 28.0 | 22.4          | 1.6 | 19.3              | 25.6 |
|            | Urban | 29.9 | 2.9 | 24.0              | 35.8 | 34.5          | 1.7 | 31.2              | 37.9 |
| Sylhet     | Rural | 17.9 | 2.4 | 13.0              | 22.7 | 18.4          | 1.0 | 16.4              | 20.3 |
|            | Urban | 14.3 | 2.5 | 9.2               | 19.5 | 19.2          | 1.5 | 16.3              | 22.2 |

**Note:** CensusEB estimates with heteroskedasticity and sample weights. Mean=point estimate, SE=  $\sqrt{\text{MSE}}$ , LL=lower limit, UL=upper limit.

**Source:** Estimations based on HIES 2022 and PHC 2022, BBS

Figure 4: HIES and CensusEB Poverty Estimates Alignment at the Domain Level, 2022



**Note:** CensusEB estimates with heteroskedasticity and sample weights.

**Source:** Estimations based on HIES 2022 and PHC 2022, BBS

**Table 5: CensusEB Standard Error (%) of Poverty Estimates (UPL), 2022**

|         | Min | Mean | p50 | p95  | p99  | Max  |
|---------|-----|------|-----|------|------|------|
| Domain  | 0.9 | 1.3  | 1.2 | 1.7  | 1.7  | 1.7  |
| Zila    | 0.7 | 2.1  | 1.9 | 4.0  | 5.0  | 5.9  |
| Upazila | 0.7 | 4.6  | 3.8 | 10.9 | 15.1 | 19.2 |

**Note:** 1. CensusEB estimates with heteroskedasticity and sample weights. Standard errors are computed as  $\sqrt{\text{MSE}}$  through bootstrap simulation.

2. Upazila Clustering (UPL).

**Source:** Estimations based on HIES 2022 and PHC 2022, BBS

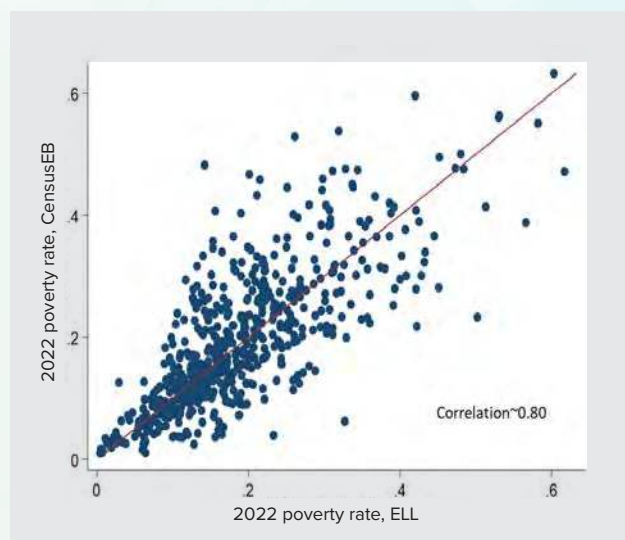
#### 2.4.2. CensusEB standard error estimates

As evidenced in Table 5, small-area standard errors of poverty estimates are reasonable for the majority of upazilas. Comparing these estimates to those from the prior poverty mapping exercise conducted in 2016 (ELL method) reveals that CensusEB estimates are lower and exhibit less noise. Given the large standard error for about 5% of the reporting upazilas, a robust ranking is suggested to account for this issue.

#### 2.4.3. Empirical Comparison of ELL and CensusEB Methodologies

To ensure the robustness of 2022 poverty maps, the poverty rates were calculated using the traditional ELL method for comparison. The analysis shows a high degree of correlation (0.8) between the ELL and CensusEB estimates. As depicted in the scatter plot (Figure 5), both methods align closely, validating the reliability of the estimates. Both methods consistently identify regions with higher and lower poverty rates, confirming the spatial distribution of poverty. While

both provide close estimates, the CensusEB method guarantees unbiased estimates and aligns with the new empirical developments in small area estimation.

**Figure 5: Comparison of 2022 Poverty Rates by ELL and CensusEB**

**Source:** Estimations based on HIES 2022 and PHC 2022, BBS

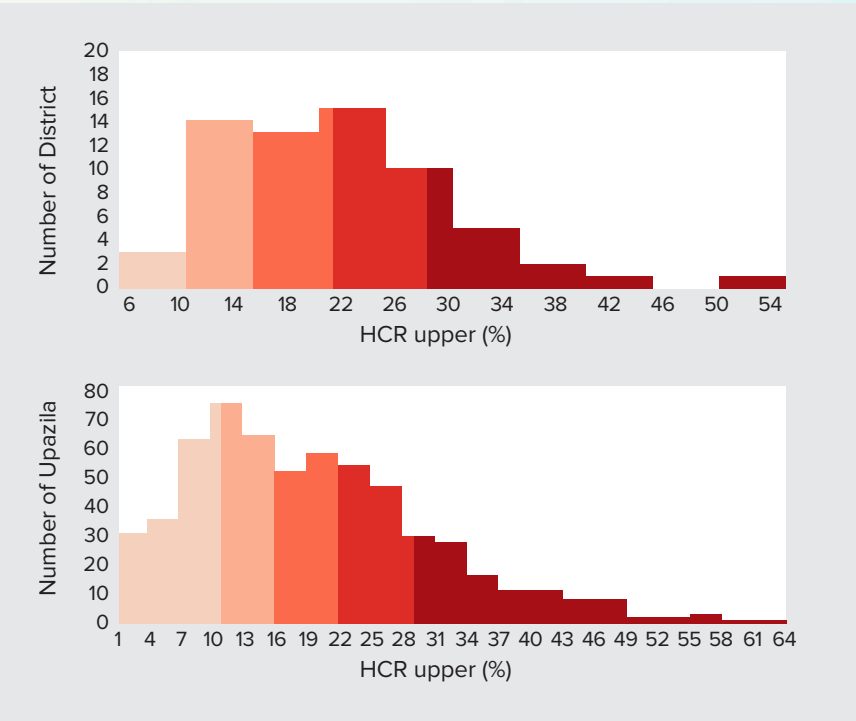




# MAPPING POVERTY (UPL)

The histograms presented in Figure 6 depict the distribution of poverty rates across districts and upazilas in Bangladesh. Utilizing SAE to generate point estimates, the poverty rates at the district and upazila levels range from 1 to 54 percent and 1 to 63 percent, respectively. Both distributions exhibit a rightward skew, indicating a concentration of most districts and upazilas within a poverty rate range of 10 to 30 percent. This pattern suggests that while moderate levels of poverty predominate, there exists a smaller number of districts and upazilas experiencing significantly higher poverty rates. This skewness highlights the presence of substantial disparities in economic conditions across different regions, emphasizing the need for targeted poverty alleviation efforts in areas with acute poverty.

**Figure 6:** Distribution of Poverty Rates across Districts and Upazilas in Bangladesh, 2022



Source: Estimations based on HIES 2022 and PHC 2022, BBS

### 3.1. GROUPING OF DISTRICTS AND UPAZILAS: QUINTILE-BASED STRATIFICATION

When employing poverty rates of districts and upazilas for ranking and comparison, reliance solely on point estimates may lead to misleading interpretations due to variability reflected in confidence intervals and standard errors. For instance, minimal differences in poverty rates between two upazilas could lead to an inaccurate representation of their comparative standings if these differences are not statistically significant, potentially resulting in an erroneous inverse ranking under rigorous statistical analysis.

To enhance reliability in comparisons, it is prudent to categorize districts and upazilas into distinct groups based on their poverty levels. A quantile-based stratification system has been adopted that classifies upazilas into five categories, from the First to the Fifth Quintile.<sup>20</sup> Each category encompasses an equal number of upazilas. Districts are then categorized using the

cutoffs from each quintile. Table 6 provides a summary of this categorization. The categorization ensures that the analysis and interpretation of poverty distributions are both simplified and statistically robust, accurately reflecting significant disparities in poverty levels.

**Table 6: Number of Upazilas/Thanas within Each Category of Poverty Level, 2022**

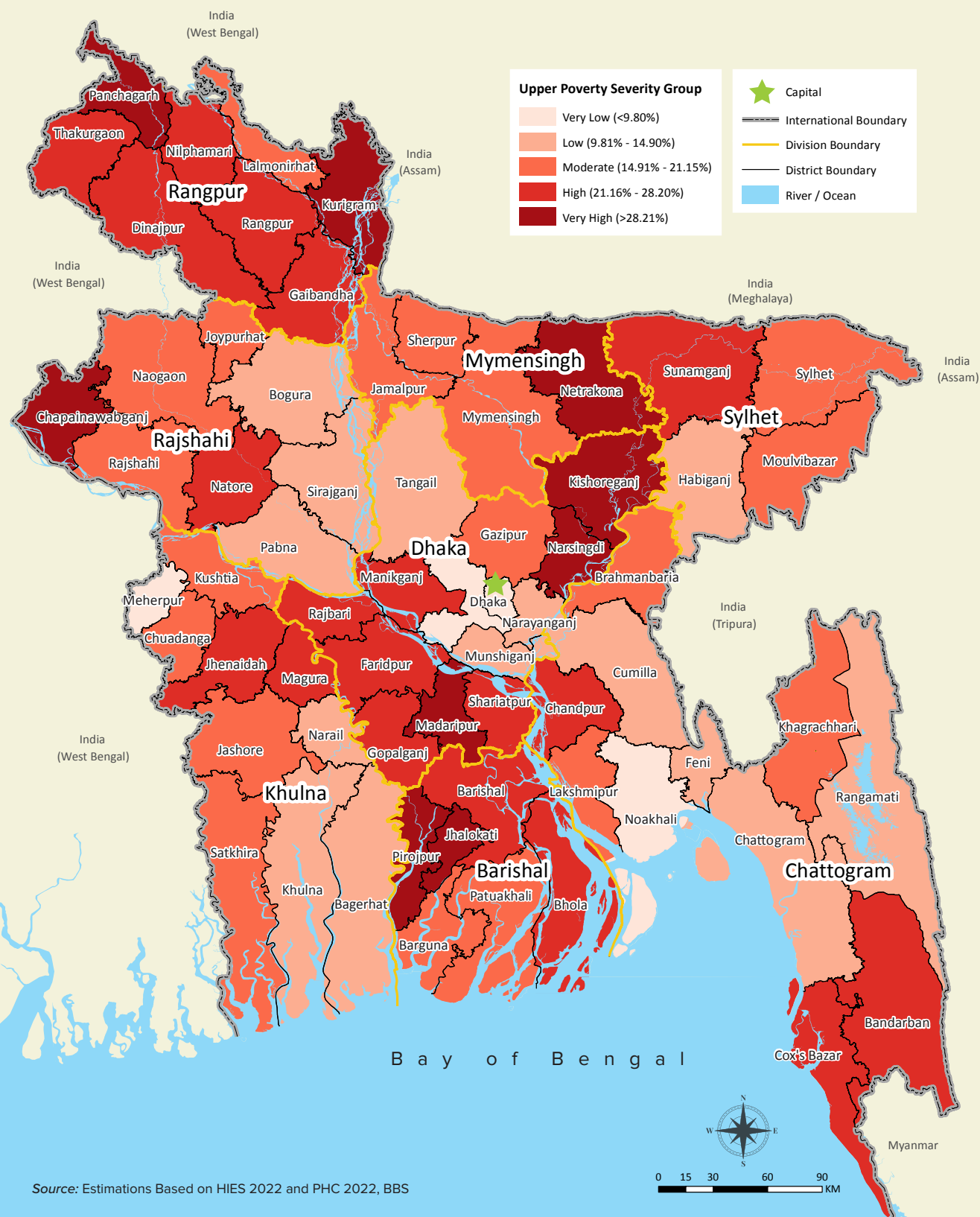
| Quantile          | Poverty Rate Range | Number of Upazilas/Thanas |
|-------------------|--------------------|---------------------------|
| First (Very Low)  | <9.80              | 118                       |
| Second (Low)      | 9.80-14.90         | 118                       |
| Third (Moderate)  | 14.91-21.15        | 118                       |
| Fourth (High)     | 21.16-28.20        | 118                       |
| Fifth (Very High) | >28.20             | 118                       |



<sup>20</sup> The Upazilas in the First Quintile are the wealthiest, with a gradual shift towards the poorest in the Fifth Quintile

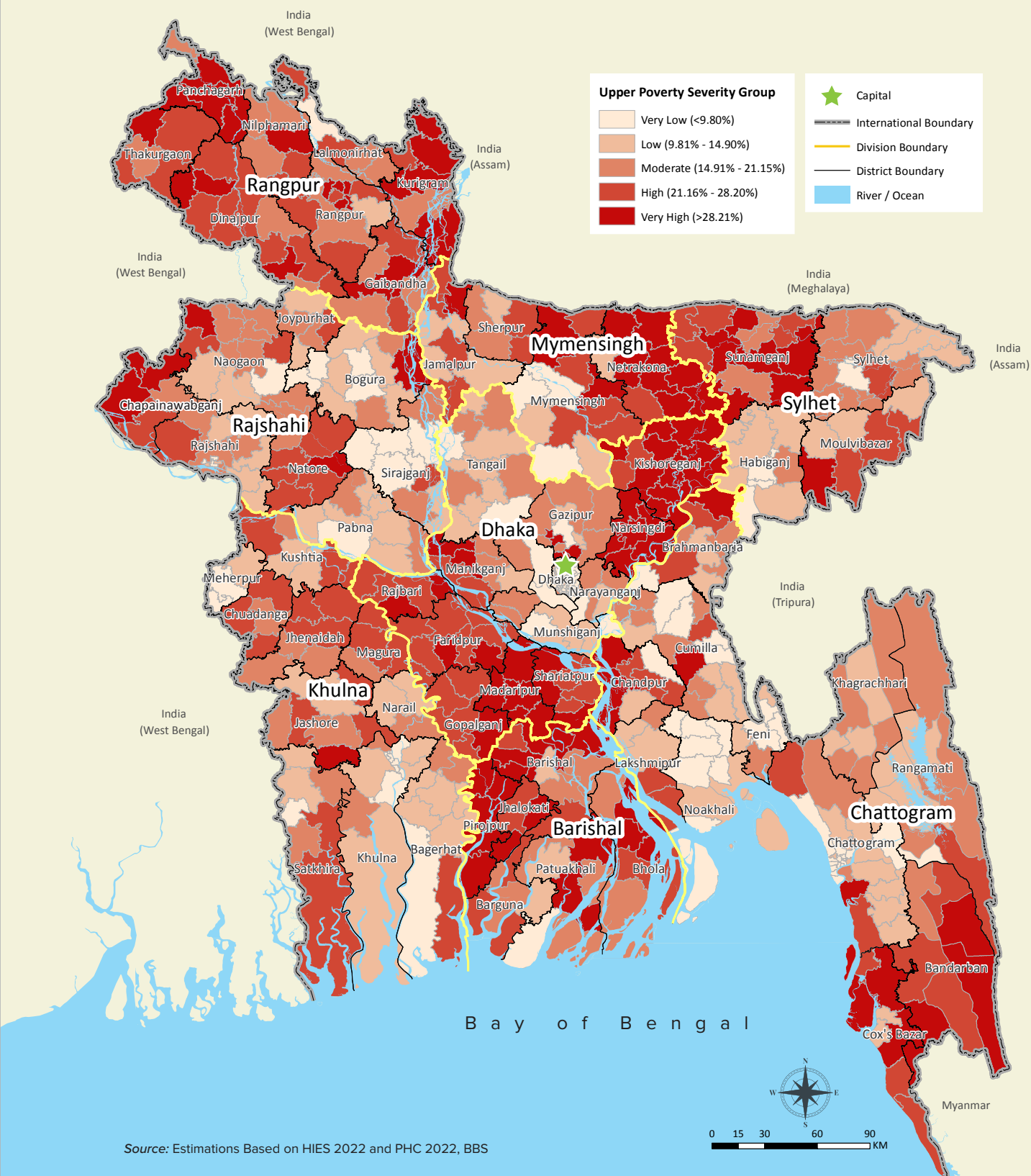
### 3.2. POVERTY ESTIMATES AT DISTRICT LEVEL (UPL), 2022 [CensusEB]

**Map 1: Poverty Estimates at District Level (Upper Poverty Line), 2022 [CensusEB]**



### 3.3. POVERTY ESTIMATES AT UPAZILA LEVEL (UPL), 2022 [CensusEB]

Map 2: Poverty Estimates at Upazila Level (Upper Poverty Line), 2022 [CensusEB]



### 3.4. POVERTY LEVEL BY DIVISION

Table 7 outlines the distribution of districts within each of Bangladesh's eight divisions according to five designated poverty quantiles. Notably, divisions such as Chattogram, Khulna, and Rajshahi exhibit a substantial number of districts classified within the 'First' and 'Second' quantiles, indicating lower levels of poverty. Conversely, divisions like Rangpur and Barishal show a concentration of districts in the 'Fifth' and 'Fourth' quantiles, suggesting higher poverty rates and presenting significant economic challenges that could benefit from intensified development initiatives. Meanwhile, division such as Dhaka displays a wide distribution across all quantiles, reflecting a heterogeneous mix of economic conditions within each division.

This pattern of economic disparity is further mirrored at the upazila level as detailed in Table 8, which underscores both the regional economic disparities and the potential for targeted interventions. Chattogram again stands out with a balanced distribution across all quantiles and notably fewer upazilas in the 'Fifth' quantile, suggesting better overall economic conditions. Conversely, Barishal and Rangpur display a significant clustering of upazilas within the 'Fifth' quantile, marking these areas as particularly vulnerable and in need of targeted poverty alleviation efforts. Dhaka, despite its economic importance and having the largest number of upazilas/metro thanas at 147, exhibits significant internal economic contrasts, with a considerable number of upazilas in both the 'First'

**Table 7: Distribution of Districts Across Different Poverty Levels, 2022**

| Division   | Number of Districts      |                          |                                |                            |                            | Total |
|------------|--------------------------|--------------------------|--------------------------------|----------------------------|----------------------------|-------|
|            | Very low (Q1)<br>(<9.80) | Low (Q2)<br>(9.81-14.90) | Moderate (Q3)<br>(14.91-21.15) | High (Q4)<br>(21.16-28.20) | Very high (Q5)<br>(>28.20) |       |
| Barishal   | 0                        | 0                        | 2                              | 2                          | 2                          | 6     |
| Chattogram | 1                        | 4                        | 3                              | 3                          | 0                          | 11    |
| Dhaka      | 1                        | 3                        | 1                              | 5                          | 3                          | 13    |
| Khulna     | 1                        | 3                        | 4                              | 2                          | 0                          | 10    |
| Mymensingh | 0                        | 0                        | 3                              | 0                          | 1                          | 4     |
| Rajshahi   | 0                        | 3                        | 3                              | 1                          | 1                          | 8     |
| Rangpur    | 0                        | 0                        | 1                              | 5                          | 2                          | 8     |
| Sylhet     | 0                        | 1                        | 2                              | 1                          | 0                          | 4     |
| Total      | 3                        | 14                       | 19                             | 19                         | 9                          | 64    |

Source: Estimations based on HIES 2022 and PHC of 2022, BBS

**Table 8: Distribution of Upazilas/Thanas Across Different Poverty Levels, 2022**

| Division   | Number of Upazila/Thana  |                          |                                |                            |                            | Total |
|------------|--------------------------|--------------------------|--------------------------------|----------------------------|----------------------------|-------|
|            | Very low (Q1)<br>(<9.80) | Low (Q2)<br>(9.81-14.90) | Moderate (Q3)<br>(14.91-21.15) | High (Q4)<br>(21.16-28.20) | Very high (Q5)<br>(>28.20) |       |
| Barishal   | 1                        | 3                        | 10                             | 9                          | 19                         | 42    |
| Chattogram | 32                       | 33                       | 24                             | 17                         | 13                         | 119   |
| Dhaka      | 48                       | 21                       | 20                             | 21                         | 37                         | 147   |
| Khulna     | 11                       | 19                       | 15                             | 18                         | 1                          | 64    |
| Mymensingh | 3                        | 7                        | 2                              | 11                         | 12                         | 35    |

Table 8: Distribution of Upazilas/Thanas Across Different Poverty Levels, 2022 (*continued*)

| Division | Number of Upazila/Thana  |                          |                                |                            |                            | Total |
|----------|--------------------------|--------------------------|--------------------------------|----------------------------|----------------------------|-------|
|          | Very low (Q1)<br>(<9.80) | Low (Q2)<br>(9.81-14.90) | Moderate (Q3)<br>(14.91-21.15) | High (Q4)<br>(21.16-28.20) | Very high (Q5)<br>(>28.20) |       |
| Rajshahi | 14                       | 23                       | 19                             | 11                         | 6                          | 73    |
| Rangpur  | 1                        | 1                        | 16                             | 23                         | 23                         | 64    |
| Sylhet   | 8                        | 11                       | 12                             | 8                          | 7                          | 46    |
| Total    | 118                      | 118                      | 118                            | 118                        | 118                        | 590   |

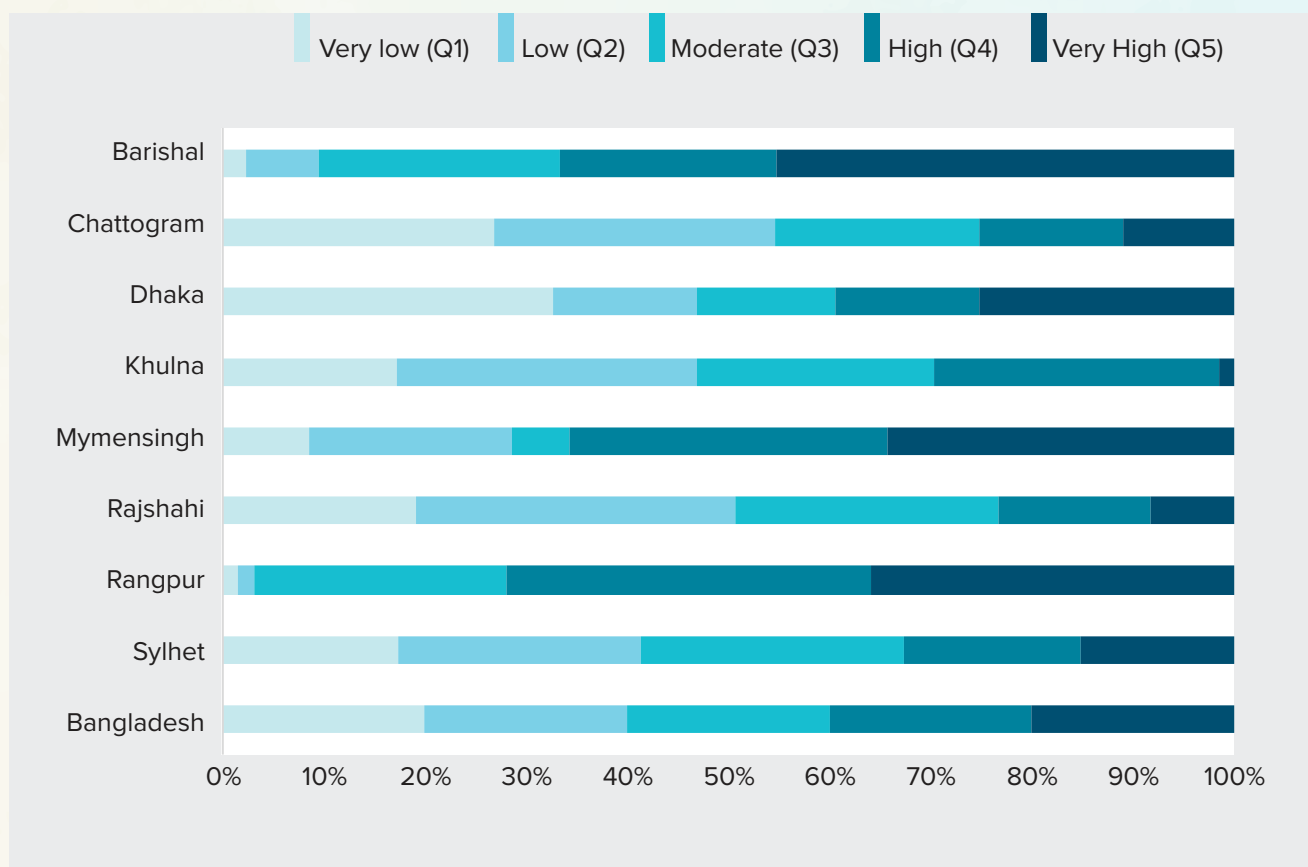
Source: Estimations based on HIES 2022 and PHC 2022, BBS

and 'Fifth' quantiles, highlighting the need for nuanced policy approaches that can address such disparities. Similarly, Khulna and Rajshahi, with their strengths in the third quantiles, indicate a level of economic stability that could potentially be leveraged to enhance further economic growth.

Figure 7 offers a visual representation of the distribution of poverty across the divisions of Bangladesh, effectively complementing the data presented in the

previous tables. This diagram provides an immediate and clear insight into the regional disparities in poverty levels, highlighting the need for precisely targeted local policies. To address these complexities effectively, policy interventions must be customized both at the divisional level and within individual divisions, ensuring that strategies are specifically tailored to meet the unique challenges and opportunities present in each district and upazila.

**Figure 7: Distribution of Upazila/Thana Level Poverty Groups by Division, 2022**



Source: Estimations based on HIES 2022 and PHC 2022, BBS

### 3.5. POVERTY LEVEL BY DISTRICT

Table 9 shows the variability in poverty levels within Districts. This distribution reflects the diverse economic conditions prevalent across the country's districts, with some districts showing a concentration of upazilas in the 'First' quantile, such as Dhaka, which has a notably high number of upazilas in the wealthiest quantile. In contrast, districts like Kishoreganj, Kurigram, Pirojpur,

and Netrakona have a significant number of upazilas in the 'Fifth' quantile, highlighting regions with acute economic challenges. This varied landscape of economic conditions necessitates a deeper understanding and continual monitoring of district-level data to better inform development strategies and resource allocation.

**Table 9: Distribution of Upazilas/Thanas Across Different Poverty Levels by District, 2022**

| District        | Number of Upazilas/Thanas |                          |                                |                            |                            | Total |
|-----------------|---------------------------|--------------------------|--------------------------------|----------------------------|----------------------------|-------|
|                 | Very low (Q1)<br>(<9.80)  | Low (Q2)<br>(9.81-14.90) | Moderate (Q3)<br>(14.91-21.15) | High (Q4)<br>(21.16-28.20) | Very high (Q5)<br>(>28.20) |       |
| Bagerhat        | 1                         | 5                        | 2                              | 1                          | 0                          | 9     |
| Bandarban       | 0                         | 0                        | 1                              | 3                          | 3                          | 7     |
| Barguna         | 0                         | 1                        | 2                              | 3                          | 0                          | 6     |
| Barishal        | 0                         | 1                        | 2                              | 2                          | 5                          | 10    |
| Bhola           | 0                         | 0                        | 2                              | 2                          | 3                          | 7     |
| Bogura          | 4                         | 5                        | 2                              | 0                          | 1                          | 12    |
| Brahmanbaria    | 1                         | 2                        | 3                              | 2                          | 1                          | 9     |
| Chandpur        | 1                         | 1                        | 0                              | 3                          | 3                          | 8     |
| Chapainawabganj | 0                         | 0                        | 1                              | 1                          | 3                          | 5     |
| Chattogram      | 15                        | 10                       | 2                              | 2                          | 1                          | 30    |
| Chuadanga       | 0                         | 0                        | 1                              | 3                          | 0                          | 4     |
| Cox's Bazar     | 0                         | 2                        | 0                              | 3                          | 4                          | 9     |
| Cumilla         | 4                         | 4                        | 7                              | 1                          | 1                          | 17    |
| Dhaka           | 42                        | 8                        | 5                              | 0                          | 0                          | 55    |
| Dinajpur        | 0                         | 0                        | 2                              | 8                          | 3                          | 13    |
| Faridpur        | 0                         | 0                        | 0                              | 7                          | 2                          | 9     |
| Feni            | 3                         | 2                        | 1                              | 0                          | 0                          | 6     |
| Gaibandha       | 0                         | 0                        | 3                              | 2                          | 2                          | 7     |
| Gazipur         | 1                         | 1                        | 6                              | 0                          | 5                          | 13    |
| Gopalganj       | 0                         | 0                        | 0                              | 4                          | 1                          | 5     |
| Habiganj        | 3                         | 5                        | 1                              | 0                          | 0                          | 9     |
| Jamalpur        | 0                         | 3                        | 0                              | 3                          | 1                          | 7     |
| Jashore         | 0                         | 2                        | 2                              | 3                          | 1                          | 8     |
| Jhalokati       | 0                         | 0                        | 0                              | 2                          | 2                          | 4     |
| Jhenaidah       | 0                         | 0                        | 3                              | 3                          | 0                          | 6     |
| Joypurhat       | 0                         | 2                        | 2                              | 1                          | 0                          | 5     |
| Khagrachhari    | 0                         | 4                        | 5                              | 0                          | 0                          | 9     |
| Khulna          | 7                         | 5                        | 2                              | 0                          | 0                          | 14    |

Table 9: Distribution of Upazilas/Thanas Across Different Poverty Levels by District, 2022 (continued)

| District     | Number of Upazilas/Thanas |                          |                                |                            |                            |            |
|--------------|---------------------------|--------------------------|--------------------------------|----------------------------|----------------------------|------------|
|              | Very low (Q1)<br>(<9.80)  | Low (Q2)<br>(9.81-14.90) | Moderate (Q3)<br>(14.91-21.15) | High (Q4)<br>(21.16-28.20) | Very high (Q5)<br>(>28.20) | Total      |
| Kishoreganj  | 0                         | 0                        | 0                              | 2                          | 11                         | 13         |
| Kurigram     | 0                         | 0                        | 1                              | 1                          | 7                          | 9          |
| Kushtia      | 0                         | 2                        | 1                              | 3                          | 0                          | 6          |
| Lakshmipur   | 0                         | 2                        | 1                              | 2                          | 0                          | 5          |
| Lalmonirhat  | 1                         | 0                        | 2                              | 2                          | 0                          | 5          |
| Madaripur    | 0                         | 0                        | 0                              | 0                          | 5                          | 5          |
| Magura       | 0                         | 0                        | 1                              | 3                          | 0                          | 4          |
| Manikganj    | 0                         | 1                        | 2                              | 2                          | 2                          | 7          |
| Meherpur     | 2                         | 1                        | 0                              | 0                          | 0                          | 3          |
| Moulvibazar  | 0                         | 3                        | 0                              | 3                          | 1                          | 7          |
| Munshiganj   | 2                         | 4                        | 0                              | 0                          | 0                          | 6          |
| Mymensingh   | 3                         | 2                        | 0                              | 5                          | 3                          | 13         |
| Naogaon      | 1                         | 2                        | 5                              | 2                          | 1                          | 11         |
| Narail       | 0                         | 2                        | 1                              | 0                          | 0                          | 3          |
| Narayanganj  | 1                         | 1                        | 3                              | 0                          | 0                          | 5          |
| Narsingdi    | 0                         | 0                        | 0                              | 0                          | 6                          | 6          |
| Natore       | 0                         | 0                        | 1                              | 5                          | 1                          | 7          |
| Netrakona    | 0                         | 1                        | 0                              | 1                          | 8                          | 10         |
| Nilphamari   | 0                         | 0                        | 3                              | 2                          | 1                          | 6          |
| Noakhali     | 7                         | 2                        | 0                              | 0                          | 0                          | 9          |
| Pabna        | 1                         | 6                        | 2                              | 0                          | 0                          | 9          |
| Panchagarh   | 0                         | 0                        | 1                              | 0                          | 4                          | 5          |
| Patuakhali   | 1                         | 1                        | 4                              | 0                          | 2                          | 8          |
| Pirojpur     | 0                         | 0                        | 0                              | 0                          | 7                          | 7          |
| Rajbari      | 0                         | 0                        | 0                              | 3                          | 2                          | 5          |
| Rajshahi     | 3                         | 7                        | 4                              | 1                          | 0                          | 15         |
| Rangamati    | 1                         | 4                        | 4                              | 1                          | 0                          | 10         |
| Rangpur      | 0                         | 1                        | 3                              | 5                          | 5                          | 14         |
| Satkhira     | 1                         | 2                        | 2                              | 2                          | 0                          | 7          |
| Shariatpur   | 0                         | 0                        | 0                              | 3                          | 3                          | 6          |
| Sherpur      | 0                         | 1                        | 2                              | 2                          | 0                          | 5          |
| Sirajganj    | 5                         | 1                        | 2                              | 1                          | 0                          | 9          |
| Sunamganj    | 0                         | 0                        | 2                              | 4                          | 6                          | 12         |
| Sylhet       | 5                         | 3                        | 9                              | 1                          | 0                          | 18         |
| Tangail      | 2                         | 6                        | 4                              | 0                          | 0                          | 12         |
| Thakurgaon   | 0                         | 0                        | 1                              | 3                          | 1                          | 5          |
| <b>Total</b> | <b>118</b>                | <b>118</b>               | <b>118</b>                     | <b>118</b>                 | <b>118</b>                 | <b>590</b> |

Source: Estimations based on HIES 2022 and PHC 2022, BBS





# 4

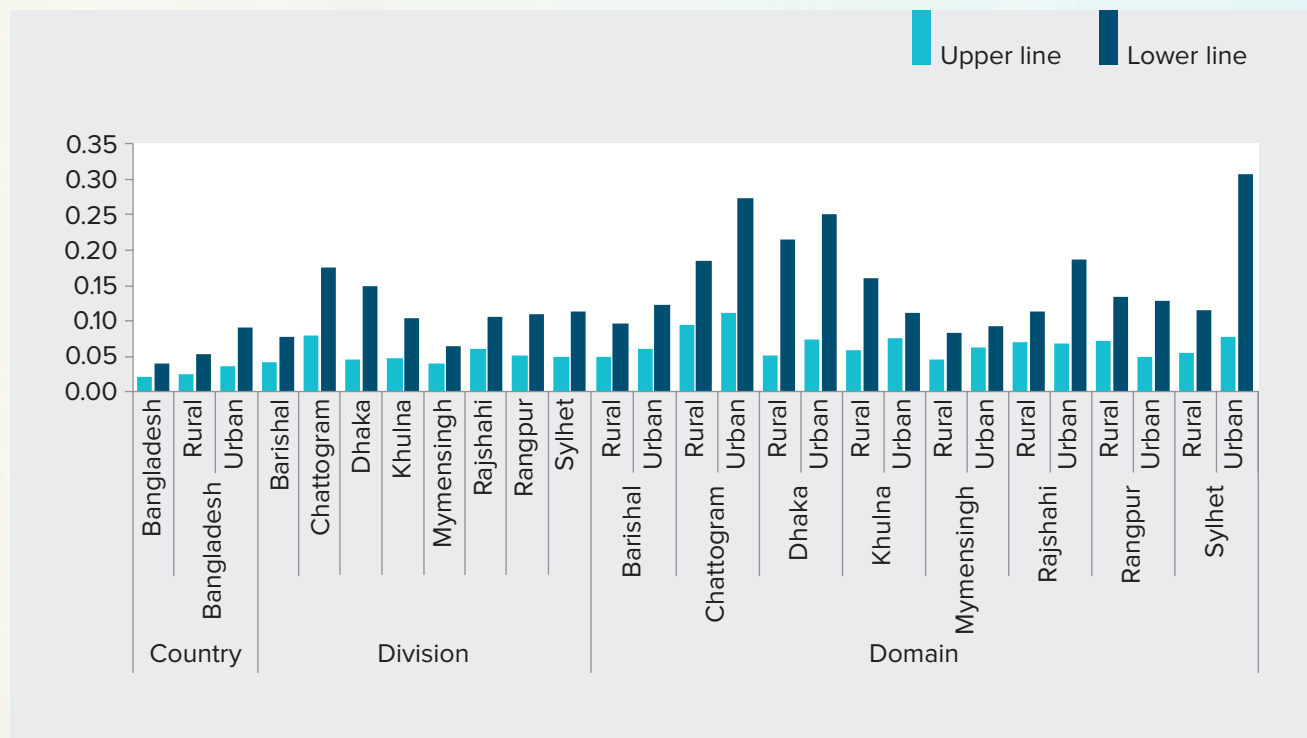
## MAPPING EXTREME POVERTY (LPL)

There is a high demand of portraying the extreme poverty pictures at granular level by the stakeholders. The mapping of the extreme poverty using the SAE method has significant challenges, particularly at disaggregated levels.

The coefficient of variation (CV), which combines mean estimates and standard errors, is a critical metric for comparing populations with substantial variation in their mean values, such as poverty levels. A CV threshold of 15% is suggested by established survey sampling standards (Groves, 2009; Lohr, 2019; Rao & Molina, 2015). Estimates exceeding this threshold are generally considered less precise and unsuitable for robust analysis and reporting. However, in our case, at finer reporting levels, SAE extreme poverty estimates frequently exceed the 15% CV threshold, whereas estimates for the upper poverty rates remain below 15% (Figure 8). This discrepancy further underscores the lower reliability of extreme poverty estimates compared to those based on the upper poverty line."

**Disclaimer:** The challenges arise from the relatively low national extreme poverty rate of 5.6%, which is even lower in urban areas at 3.8%. This low prevalence leads to higher coefficients of variation (CV) and wider confidence intervals compared to estimates based on the upper poverty line. In some cases, the high CV results in confidence intervals that include negative values which are somehow impractical and statistically less reliable.

**Figure 8:** Coefficient of variation of poverty estimates by poverty lines, 2022



Source: Estimations based on HIES 2022 and Population and Housing Census of 2022, BBS

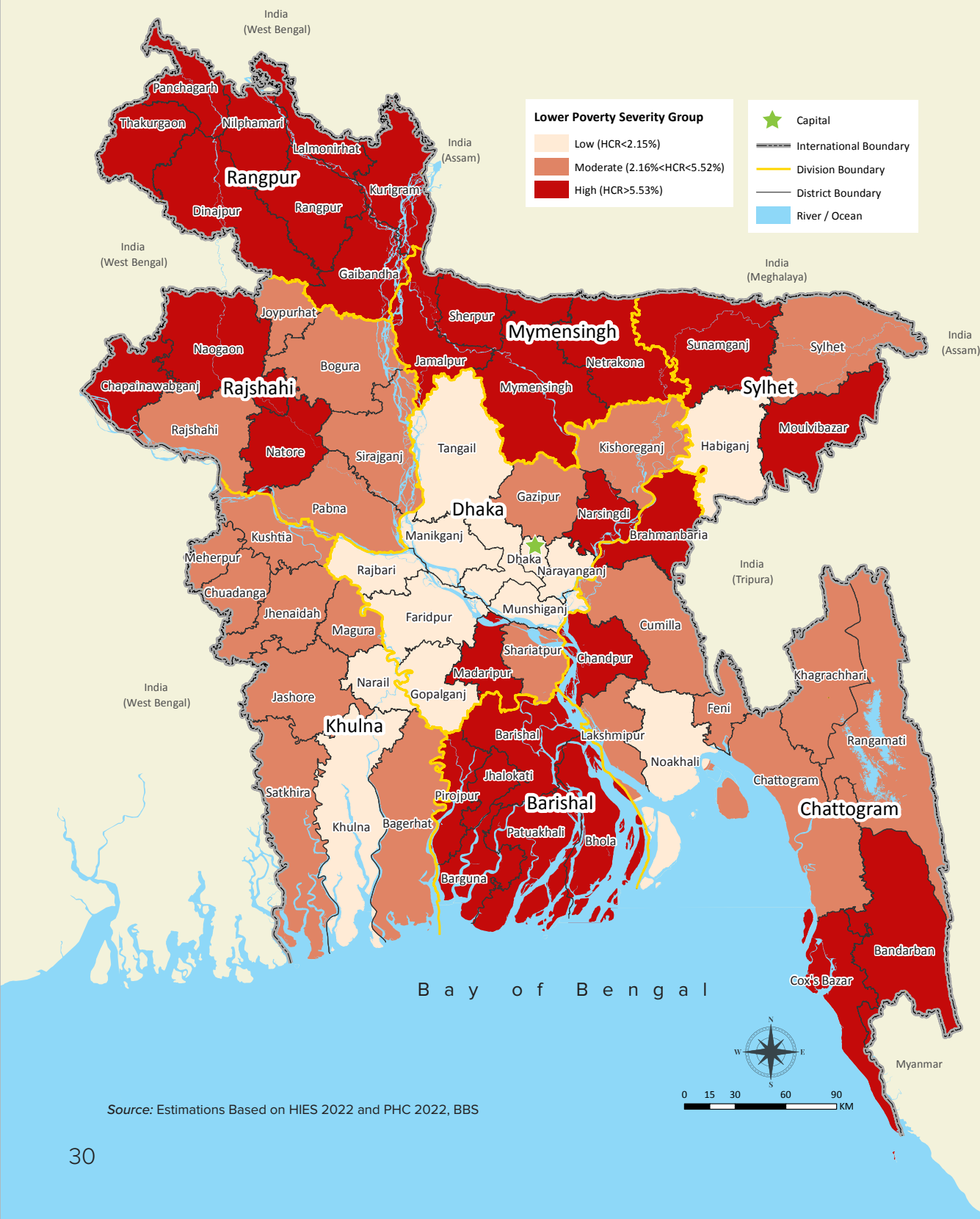
Given these challenges, we recommend focusing on estimates based on the upper poverty line for more dependable data interpretation and policy formulation. Nevertheless, to derive some insights into extreme poverty, the report categorizes upazilas and districts into three groups based on upazila-level poverty quantiles. Each category contains an equal number of upazilas, with thresholds defined as low (below

2.15%), moderate (2.16% to 5.52%), and high (above 5.53%). These groupings offer a broader view of spatial disparities in extreme poverty while acknowledging the limitations of precision. By focusing on patterns rather than specific point estimates, this approach provides a practical framework for identifying areas of acute need and guiding targeted interventions.

#### 4.1. EXTREME POVERTY ESTIMATES AT DISTRICT LEVEL (LPL), 2022 [CensusEB]

The map reveals that extreme poverty is the most concentrated in divisions such as Rangpur, Mymensingh and Barishal District. In contrast, the districts in Dhaka Division are predominantly categorized in the low level of extreme poverty.

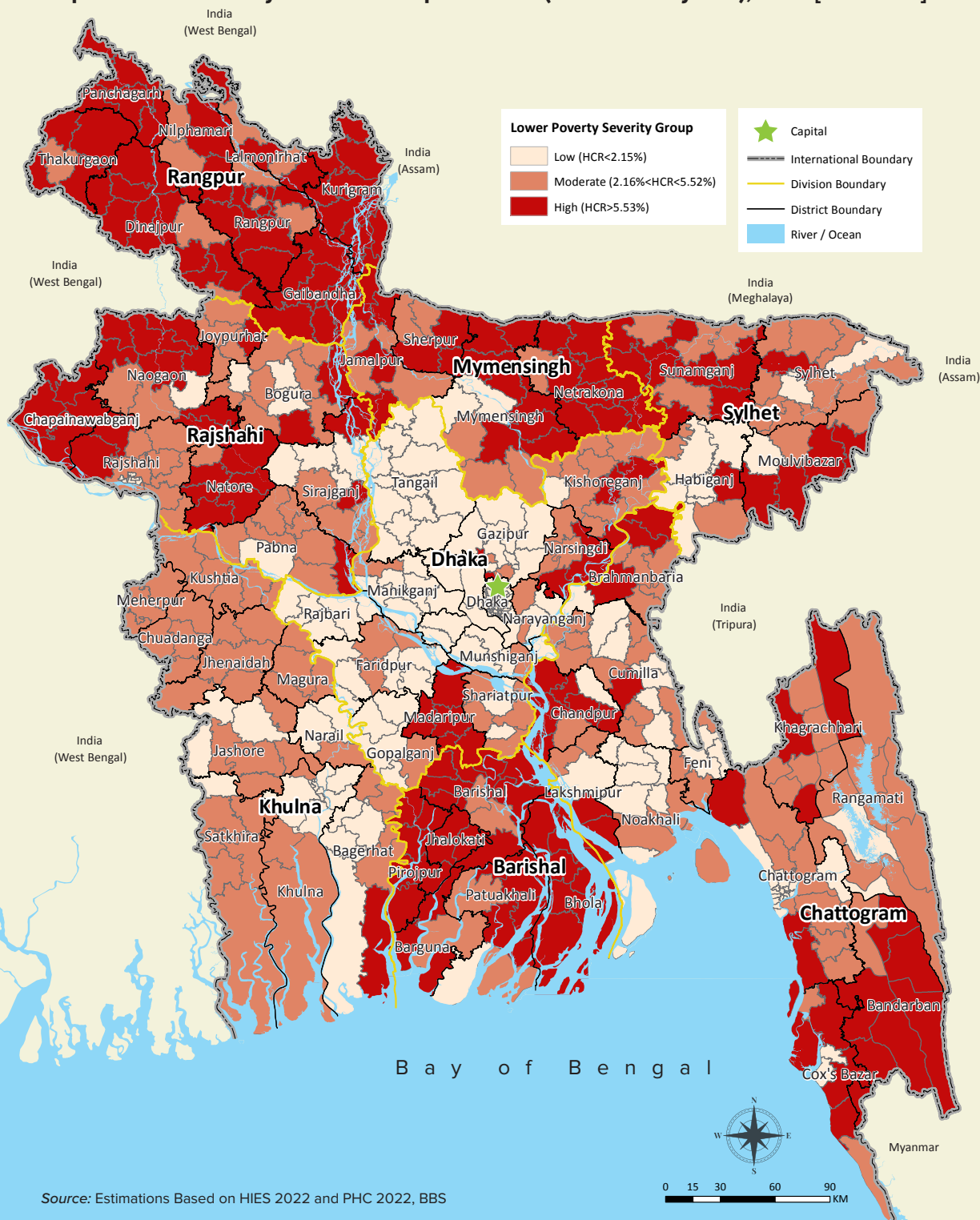
**Map 3: Extreme Poverty Estimates at District Level (Lower Poverty Line), 2022 [CensusEB]**



## 4.2. EXTREME POVERTY ESTIMATES AT UPAZILA LEVEL (LPL), 2022 [CensusEB]

The Upazila-level CensusEB poverty map provides a more granular perspective on extreme poverty, revealing localized pockets of deprivation that might otherwise be obscured within broader district-level analyses. By aligning thresholds with the district-level analysis, the map ensures comparability while capturing the heightened variability of poverty at this finer scale. For instance, in Rangpur district—generally classified as "high poverty"—the upazila-level map pinpoints specific areas where poverty is especially acute.

**Map 4: Extreme Poverty Estimates at Upazila Level (Lower Poverty Line), 2022 [CensusEB]**



Source: Estimations Based on HIES 2022 and PHC 2022, BBS

## **A COMPARATIVE ANALYSIS OF POVERTY: A DECADAL SNAPSHOT (2010-2022)**

Comparing poverty estimates over time presents significant challenges due to several key enhancements introduced in the HIES 2022. As previously mentioned, the 2022 round implemented improvements in survey design and fieldwork operation, which affected the comparability of the consumption aggregate with earlier rounds. Additionally, poverty lines were also re-estimated in 2022 to reflect new consumption patterns, further complicating longitudinal comparisons of poverty incidence.

Other methodological changes also hinder comparability. The 2022 maps used the CensusEB method instead of the ELL method used in previous years. CensusEB provides more accurate and precise estimates by effectively integrating auxiliary information and incorporating advanced techniques. Furthermore, the number of upazilas has increased over time, with more upazilas in 2022 compared to 2010, affecting the geographic granularity of the estimates. Another significant issue is the change in sample size.

To measure trends accurately, it is necessary to adjust the consumption aggregate of previous rounds to 2022 standards, use the same poverty lines as in 2022, align the previous upazila maps to the 2022 map, and employ the same poverty map methodology. Despite these challenges, the BBS reconstructed the national poverty trend from 2010 to 2022 and published comparable figures in the HIES 2022 report. In this report, an effort was made to reconstruct comparable SAE CensusEB poverty estimates for 2010 to enable a longitudinal comparison.

## 5.1. ALIGNING THE POVERTY MAP 2010 WITH THE POVERTY MAP 2022

To enable meaningful comparisons between the 2010 and 2022 poverty maps, critical adjustments were made to align methodologies and standards. These included revisions to consumption aggregates, poverty lines, administrative boundaries, and estimation methods.

First, adjustments to consumption aggregates and poverty lines were necessary due to significant changes in the 2022 HIES. Using a survey-to-survey imputation method (BBS, 2023b), the 2010 consumption aggregates were recalibrated, and poverty lines were revised to ensure compatibility with 2022 standards.

Second, upazila-level boundary harmonization addressed administrative changes over time. The 2022 upazila boundaries were overlaid with the

2011 mouza-level shapefile to identify comparable units. Mouza centroids from 2011 were matched to their corresponding 2022 upazila boundaries, and a geocode bridge was constructed to link 2011 and 2022 geocodes.

Lastly, the estimation methodology was updated. The 2010 maps, initially created using the ELL method, were re-estimated using the CensusEB method, as described in Chapter 2, (Corral et al., 2022). These updated estimates align well with 2010 HIES poverty headcounts at national, divisional, and domain levels, providing a reliable benchmark. Tables 10 and Figure 9 illustrate this alignment and confirm the reliability of these adjustments.

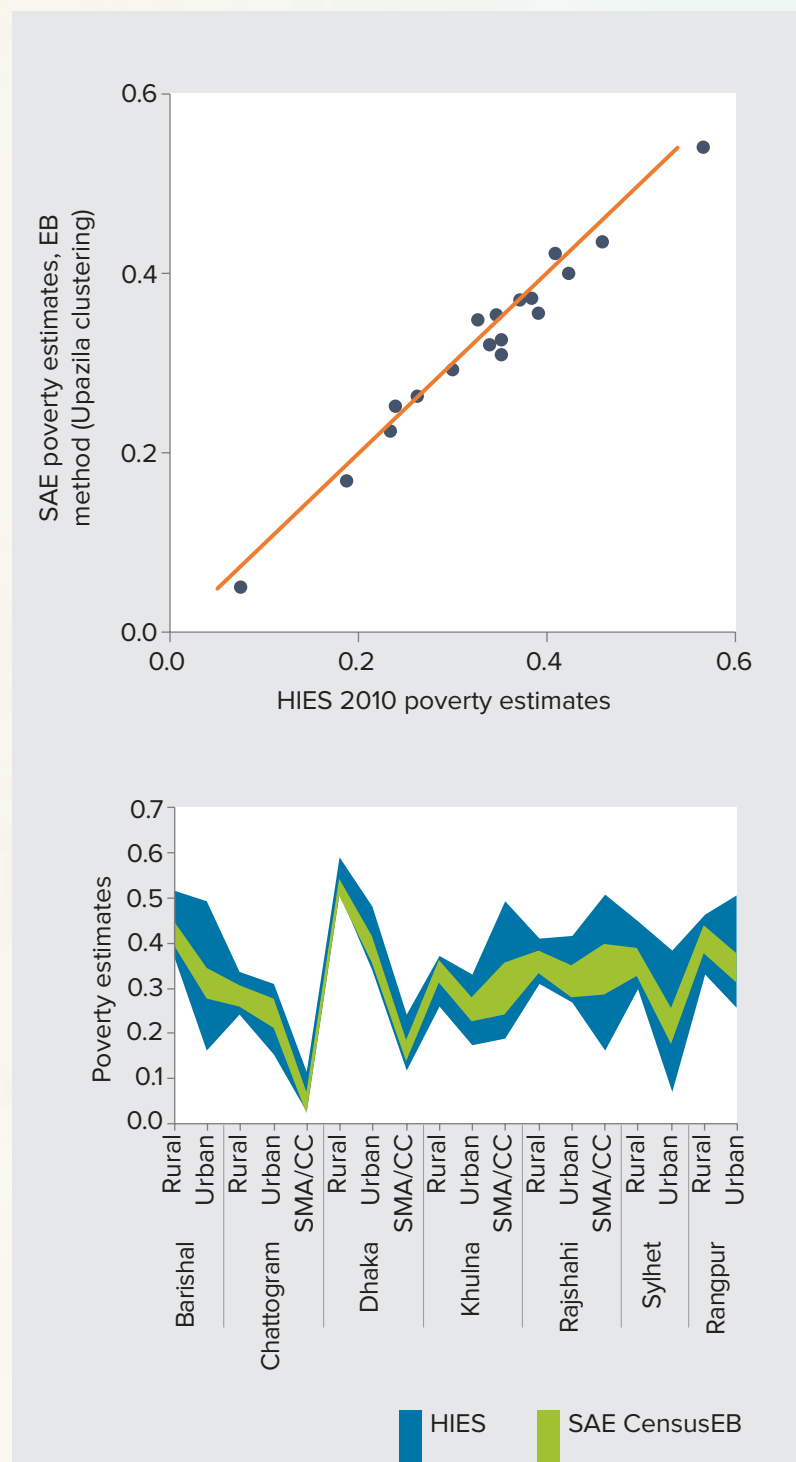
**Table 10: Small area poverty estimates at national and division level, upazila clustering (UPL), 2010**

|            | HIES  |       |       |       | SAE, CensusEB |       |       |       |
|------------|-------|-------|-------|-------|---------------|-------|-------|-------|
|            | Mean  | SE    | LL    | UL    | Mean          | SE    | LL    | UL    |
| National   | 0.371 | 0.009 | 0.353 | 0.388 | 0.377         | 0.004 | 0.369 | 0.385 |
| Rural      | 0.244 | 0.016 | 0.213 | 0.274 | 0.239         | 0.006 | 0.228 | 0.250 |
| Urban      | 0.416 | 0.011 | 0.395 | 0.437 | 0.411         | 0.005 | 0.401 | 0.421 |
| Barishal   | 0.438 | 0.033 | 0.372 | 0.505 | 0.422         | 0.013 | 0.397 | 0.446 |
| Chattogram | 0.257 | 0.019 | 0.218 | 0.295 | 0.262         | 0.011 | 0.240 | 0.284 |
| Dhaka      | 0.433 | 0.017 | 0.400 | 0.466 | 0.450         | 0.009 | 0.431 | 0.468 |
| Khulna     | 0.321 | 0.023 | 0.275 | 0.368 | 0.338         | 0.012 | 0.315 | 0.361 |
| Mymensingh | 0.368 | 0.022 | 0.324 | 0.413 | 0.363         | 0.012 | 0.341 | 0.386 |
| Rajshahi   | 0.406 | 0.031 | 0.345 | 0.467 | 0.415         | 0.015 | 0.387 | 0.444 |
| Rangpur    | 0.362 | 0.033 | 0.294 | 0.429 | 0.355         | 0.015 | 0.327 | 0.384 |
| Sylhet     | 0.438 | 0.033 | 0.372 | 0.505 | 0.422         | 0.013 | 0.397 | 0.446 |

**Note:** CensusEB estimates with heteroskedasticity and sample weights. Mean=point estimate, SE= $\sqrt{\text{MSE}}$ , LL=lower limit, UL=upper limit.

**Source:** Estimations based on HIES 2010 and PHC 2011, BBS

**Figure 9: HIES and CensusEB Poverty Estimates Alignment at the Domain Level, Upazila Clustering, 2010**



**Note:** CensusEB estimates with heteroskedasticity and sample weights

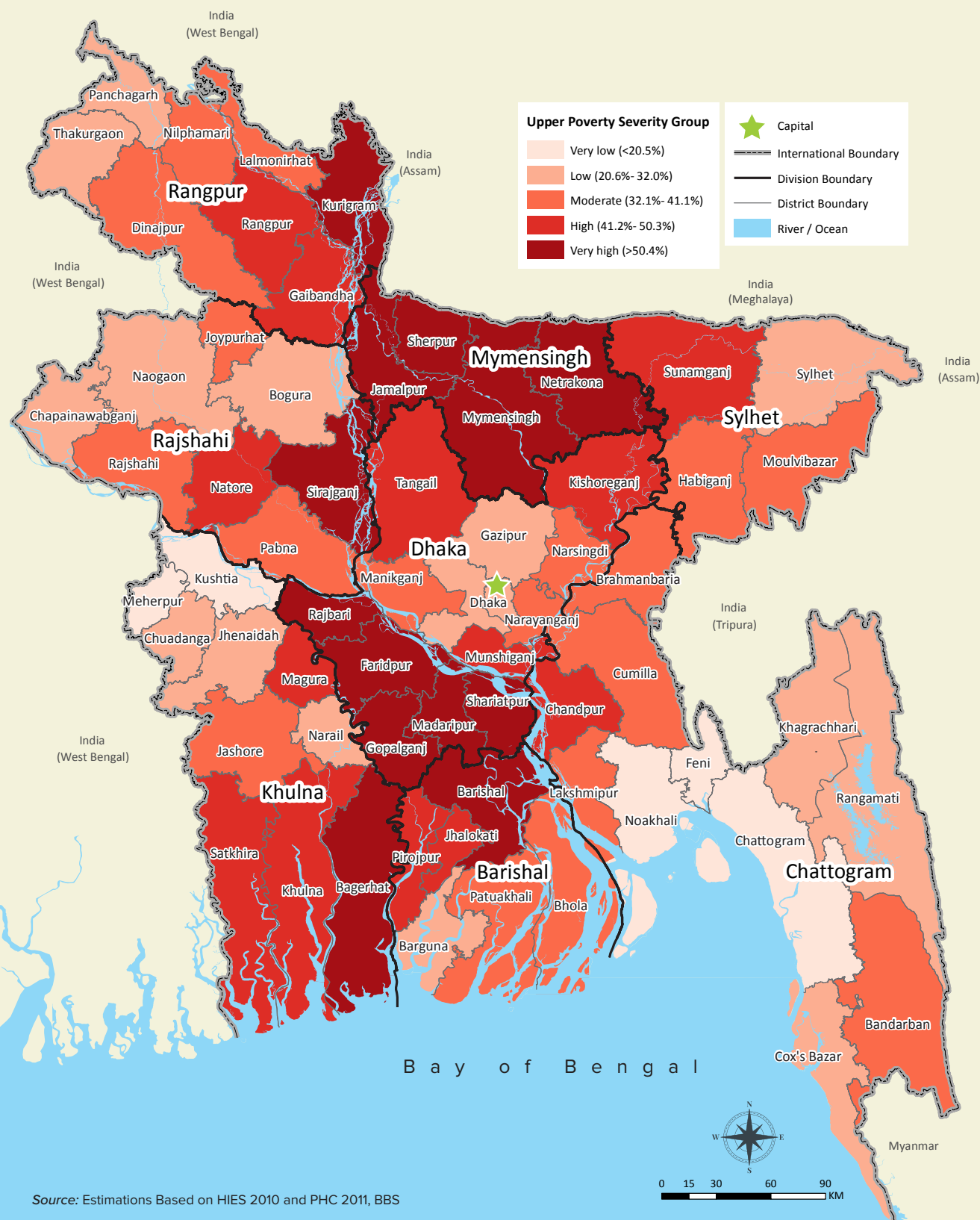
**Source:** Estimations based on HIES 2010 and PHC 2011, BBS





## 5.2. POVERTY ESTIMATES AT DISTRICT LEVEL (UPL), 2010 [CensusEB]

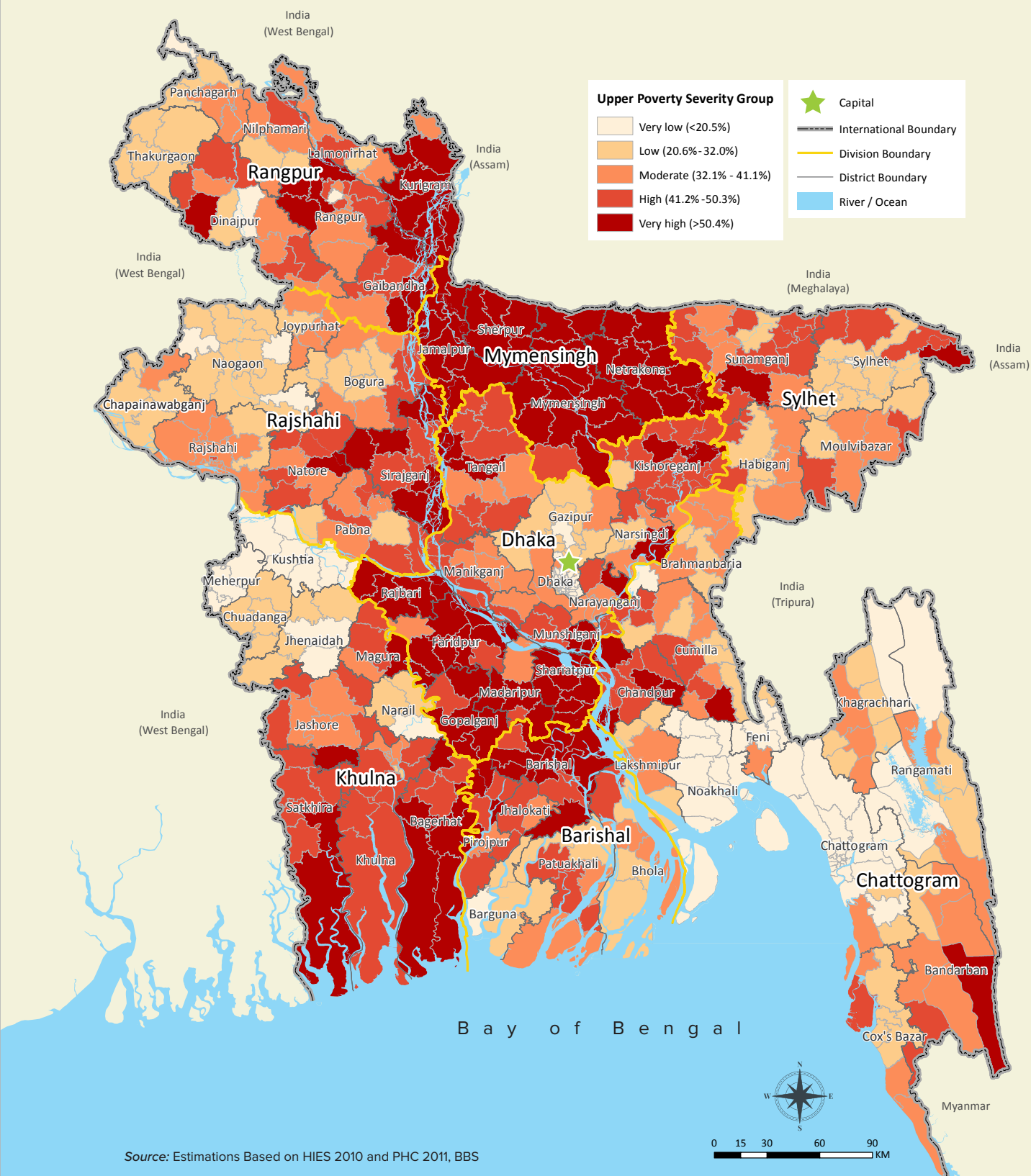
**Map 5: Poverty Estimates at District Level (Upper Poverty Line), 2010 [CensusEB]**



Source: Estimations Based on HIES 2010 and PHC 2011, BBS

### 5.3. POVERTY ESTIMATES AT UPAZILA LEVEL (UPL), 2010 [CensusEB]

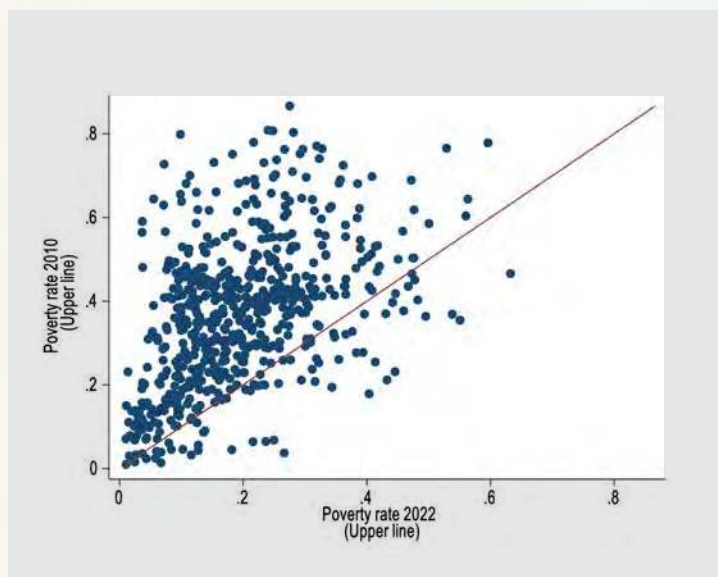
**Map 6: Poverty Estimates at Upazila Level (Upper Poverty Line), 2010 [CensusEB]**



#### 5.4. CHANGE IN POVERTY 2010 TO 2022 AT UPAZILA LEVEL

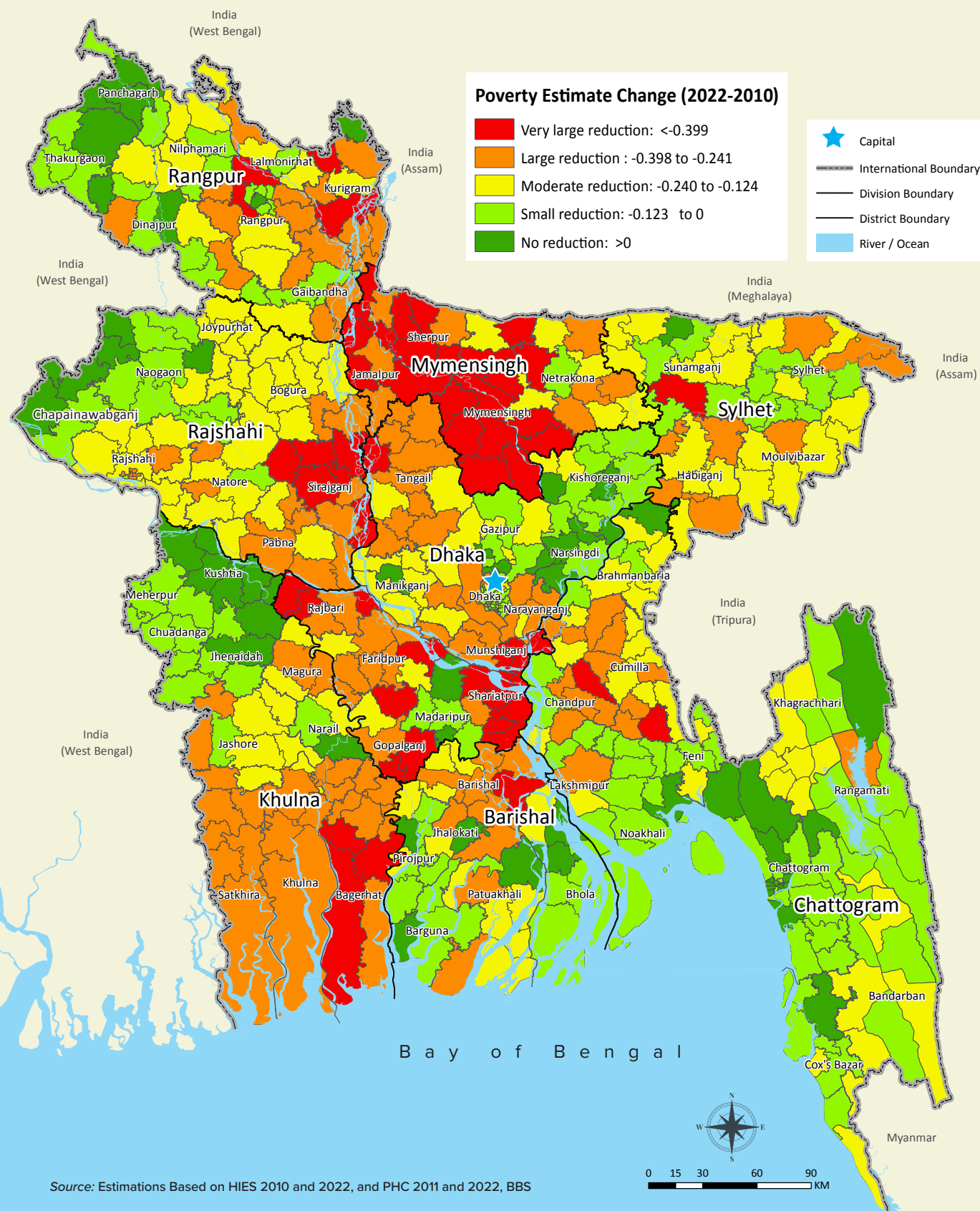
Between 2010 and 2022, poverty at the upazila level declined significantly, with nearly 90% of upazilas experiencing a reduction in poverty incidence. This progress is evident in a median reduction of 15 percentage points and an average reduction of 17 percentage points. The largest reductions occurred in upazilas with the highest poverty rates in 2010, indicating a convergence effect where areas with initially higher poverty levels made the most substantial gains. Regionally, western upazilas saw greater reductions in poverty headcounts compared to those in the eastern region, reflecting geographic variations in poverty alleviation (Figure 10).

**Figure 10: Poverty Estimates Change 2010-2022**



**Source:** Estimations based on HIES 2010 and 2022, and PHC 2011 and 2022

**Map 7: Change in Poverty 2010 to 2022 at Upazila Level**



# 6

## CONCLUDING REMARKS

The Poverty Map of Bangladesh 2022 reflect on the strides made in enhancing our understanding of poverty across Bangladesh. This year's report, backed by robust data from the HIES 2022 and the PHC 2022, provides a comprehensive view of poverty at granular levels, extending our insights down to the upazila level. The meticulous application of the CensusEB method has significantly improved the accuracy and reliability of poverty estimates, enabling us to pinpoint areas of critical need with higher precision.

The findings from this iteration of poverty maps underscore the persistent geographic and demographic disparities in poverty levels across Bangladesh.



While some areas show promising signs of economic stability and even prosperity, others remain entrenched in cycles of poverty that demand urgent and targeted intervention. The stratification of districts and upazilas into quantiles of poverty has revealed both the broad regional patterns of wealth distribution and the nuanced intra-regional variations that complicate the task of poverty alleviation.

This nuanced understanding of poverty distribution is crucial for the effective allocation of resources and the strategic planning of development initiatives. By identifying specific areas where poverty is most acute, policymakers, development partners, and stakeholders are better equipped to tailor their interventions to meet the distinct needs of these communities. Moreover, the alignment of our poverty estimates with SDGs provides a clear pathway toward achieving more equitable development outcomes across the nation.

The insights gained from this report should serve as a cornerstone for ongoing and future efforts to reduce poverty in Bangladesh. The use of advanced statistical techniques and detailed data analysis should continue to evolve, reflecting our commitment to refining our understanding of poverty and improving the lives of the most vulnerable populations. These efforts must remain dynamic and responsive to Bangladesh's changing socio-economic landscape.

In conclusion, the "Poverty Map of Bangladesh 2022" not only highlight the progress made but also illuminate the challenges that lie ahead. With the continued commitment of the Bangladesh Bureau of Statistics, in collaboration with international partners and local stakeholders, we can look forward to making significant strides in the fight against poverty. By harnessing the power of detailed, accurate data and innovative analysis techniques, we can ensure that our development efforts are both impactful and inclusive, steering Bangladesh towards a future where prosperity is shared by all.



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# ANNEX

## ANNEX 1

### DIVISION, DISTRICT AND UPAZILA LEVEL POVERTY RATES OF 2022 AND 2010

| Name                     | Population <sup>20</sup> | 2022                 |               |                    | 2010 <sup>21</sup> |               |                    |
|--------------------------|--------------------------|----------------------|---------------|--------------------|--------------------|---------------|--------------------|
|                          |                          | Quintile             | HCR Upper (%) | Standard Error (%) | Quintile           | HCR Upper (%) | Standard Error (%) |
| <b>Barishal Division</b> | <b>8900160</b>           |                      | <b>26.6</b>   | <b>1.1</b>         |                    | <b>43.8</b>   | <b>3.3</b>         |
| <b>Barguna District</b>  | <b>992721</b>            | <b>Moderate (Q3)</b> | <b>19.8</b>   | <b>2.9</b>         | <b>Low</b>         | <b>24.4</b>   | <b>2.5</b>         |
| Amtali                   | 211015                   | Low (Q2)             | 14.9          | 5.0                | Low (Q2)           | 25.8          | 4.2                |
| Bamna                    | 77419                    | Moderate (Q3)        | 20.2          | 10.5               | Low (Q2)           | 22.9          | 8.5                |
| Barguna Sadar            | 288426                   | Moderate (Q3)        | 18.6          | 3.0                | Low (Q2)           | 23.7          | 4.3                |
| Betagi                   | 124379                   | High (Q4)            | 22.3          | 10.2               | Low (Q2)           | 29.8          | 4.5                |
| Patharghata              | 175873                   | High (Q4)            | 23.5          | 2.2                | Very Low (Q1)      | 20.0          | 5.3                |
| Taltali                  | 115609                   | High (Q4)            | 23.3          | 9.6                | Low (Q2)           | 25.7          | 5.9                |
| <b>Barishal District</b> | <b>2496625</b>           | <b>High (Q4)</b>     | <b>25.7</b>   | <b>1.7</b>         | <b>Very high</b>   | <b>56.1</b>   | <b>2.5</b>         |
| Agailjhara               | 153523                   | High (Q4)            | 24.9          | 4.7                | High (Q4)          | 42.7          | 5.5                |
| Babuganj                 | 150640                   | Low (Q2)             | 13.7          | 5.0                | Very High (Q5)     | 51.9          | 12.1               |
| Bakerganj                | 346151                   | High (Q4)            | 27.1          | 3.4                | Very High (Q5)     | 61.1          | 5.7                |
| Banaripara               | 167200                   | Very High (Q5)       | 38.4          | 4.1                | Very High (Q5)     | 59.9          | 5.1                |
| Gaurnadi                 | 202870                   | Very High (Q5)       | 33.3          | 4.0                | Very High (Q5)     | 55.6          | 3.9                |
| Hijla                    | 148102                   | Very High (Q5)       | 35.7          | 13.3               | Very High (Q5)     | 69.0          | 9.8                |
| Barishal Sadar           | 617993                   | Moderate (Q3)        | 18.5          | 1.4                | High (Q4)          | 43.5          | 2.7                |
| Mehendiganj              | 280553                   | Moderate (Q3)        | 19.2          | 3.8                | Very High (Q5)     | 68.1          | 4.4                |
| Muladi                   | 178483                   | Very High (Q5)       | 31.2          | 5.4                | Very High (Q5)     | 64.2          | 4.9                |
| Ujirpur                  | 251110                   | Very High (Q5)       | 32.2          | 3.7                | Very High (Q5)     | 56.3          | 10.7               |
| <b>Bhola District</b>    | <b>1904358</b>           | <b>High (Q4)</b>     | <b>27.0</b>   | <b>2.0</b>         | <b>Moderate</b>    | <b>35.3</b>   | <b>3.4</b>         |
| Bhola Sadar              | 434440                   | Moderate (Q3)        | 20.7          | 3.3                | High (Q4)          | 43.1          | 4.0                |
| Borhanuddin              | 261842                   | Very High (Q5)       | 44.2          | 5.1                | Moderate (Q3)      | 39.7          | 6.4                |
| Charfasson               | 514341                   | Moderate (Q3)        | 19.8          | 3.3                | Low (Q2)           | 31.3          | 5.4                |
| Daulatkhan               | 180248                   | Very High (Q5)       | 39.4          | 5.0                | Low (Q2)           | 27.7          | 4.8                |
| Lalmohan                 | 292169                   | High (Q4)            | 23.5          | 5.7                | Low (Q2)           | 30.8          | 5.1                |
| Monpura                  | 88973                    | High (Q4)            | 27.6          | 6.1                | Moderate (Q3)      | 38.0          | 12.6               |
| Tazumuddin               | 132345                   | Very High (Q5)       | 32.3          | 8.2                | Moderate (Q3)      | 34.0          | 10.9               |

<sup>20</sup> General Household Population includes individuals in private households and excludes those in institutions (e.g., dormitories, hospitals, prisons) and the floating population (e.g., those without permanent housing or in temporary shelters).

<sup>21</sup> The 2010 figures have been re-estimated using the CensusEB method and comparable consumption aggregates, and therefore differ from the original 2010 poverty maps published by BBS in 2014.

ANNEX 1: DIVISION, DISTRICT AND UPAZILA LEVEL POVERTY RATES OF 2022 AND 2010 (Continued)

| Name                         | Population <sup>20</sup> | 2022                  |               |                    | 2010 <sup>21</sup> |               |                    |
|------------------------------|--------------------------|-----------------------|---------------|--------------------|--------------------|---------------|--------------------|
|                              |                          | Quintile              | HCR Upper (%) | Standard Error (%) | Quintile           | HCR Upper (%) | Standard Error (%) |
| <b>Jhalokati District</b>    | <b>647167</b>            | <b>Very High (Q5)</b> | <b>33.5</b>   | <b>2.6</b>         | <b>High</b>        | <b>42.2</b>   | <b>3.5</b>         |
| Jhalokati Sadar              | 209894                   | High (Q4)             | 21.9          | 3.4                | High (Q4)          | 46.5          | 3.3                |
| Kanthalia                    | 110496                   | Very High (Q5)        | 31.2          | 5.4                | High (Q4)          | 41.3          | 10.2               |
| Nalchhity                    | 184777                   | Very High (Q5)        | 53.8          | 4.1                | Moderate (Q3)      | 36.9          | 4.2                |
| Rajapur                      | 142000                   | High (Q4)             | 26.0          | 5.2                | High (Q4)          | 43.7          | 6.6                |
| <b>Patuakhali District</b>   | <b>1687450</b>           | <b>Moderate (Q3)</b>  | <b>20.8</b>   | <b>1.4</b>         | <b>Moderate</b>    | <b>36.0</b>   | <b>2.7</b>         |
| Bauphal                      | 322609                   | Very High (Q5)        | 35.5          | 4.3                | Low (Q2)           | 26.1          | 3.7                |
| Dashmina                     | 128549                   | Moderate (Q3)         | 20.4          | 3.8                | Moderate (Q3)      | 38.5          | 10.2               |
| Dumki                        | 78579                    | Moderate (Q3)         | 18.8          | 3.4                | Low (Q2)           | 30.7          | 11.0               |
| Galachipa                    | 295095                   | Very High (Q5)        | 28.5          | 3.9                | High (Q4)          | 45.0          | 5.3                |
| Kalapara                     | 277035                   | Very Low (Q1)         | 7.7           | 2.6                | Moderate (Q3)      | 33.1          | 4.1                |
| Mirzaganj                    | 124976                   | Moderate (Q3)         | 17.1          | 3.4                | Low (Q2)           | 30.7          | 8.9                |
| Patuakhali Sadar             | 343505                   | Low (Q2)              | 14.0          | 2.4                | High (Q4)          | 41.5          | 4.7                |
| Rangabali                    | 117102                   | Moderate (Q3)         | 17.5          | 4.1                | Moderate (Q3)      | 40.2          | 10.5               |
| <b>Pirojpur District</b>     | <b>1171839</b>           | <b>Very High (Q5)</b> | <b>37.9</b>   | <b>2.6</b>         | <b>High</b>        | <b>47.1</b>   | <b>3.3</b>         |
| Bhandaria                    | 160364                   | Very High (Q5)        | 30.1          | 4.2                | Moderate (Q3)      | 37.3          | 6.1                |
| Pirojpur Sadar               | 69085                    | Very High (Q5)        | 41.4          | 14.3               | High (Q4)          | 45.1          | 7.2                |
| Mathbaria                    | 272481                   | Very High (Q5)        | 39.2          | 5.3                | High (Q4)          | 49.4          | 6.9                |
| Nazirpur                     | 185143                   | Very High (Q5)        | 33.4          | 5.7                | Very High (Q5)     | 51.1          | 6.5                |
| Pirojpur Sadar               | 176647                   | Very High (Q5)        | 47.7          | 3.8                | High (Q4)          | 45.1          | 7.2                |
| Nesarabad (Swarupkathi)      | 224752                   | Very High (Q5)        | 36.6          | 5.8                | High (Q4)          | 45.2          | 5.1                |
| Indurkani                    | 83367                    | Very High (Q5)        | 38.9          | 6.2                | Very High (Q5)     | 52.6          | 10.2               |
| <b>Chattogram Division</b>   | <b>32162688</b>          | <b>Moderate (Q3)</b>  | <b>15.2</b>   | <b>1.2</b>         | <b>Low (Q2)</b>    | <b>25.7</b>   | <b>1.9</b>         |
| <b>Bandarban District</b>    | <b>450692</b>            | <b>High (Q4)</b>      | <b>25.0</b>   | <b>5.9</b>         | <b>Moderate</b>    | <b>39.0</b>   | <b>3.6</b>         |
| Alikadam                     | 59162                    | High (Q4)             | 27.7          | 13.9               | Moderate (Q3)      | 36.9          | 5.8                |
| Bandarban Sadar              | 100447                   | Moderate (Q3)         | 18.3          | 6.6                | Low (Q2)           | 30.3          | 7.0                |
| Lama                         | 133515                   | High (Q4)             | 23.7          | 15.2               | Moderate (Q3)      | 40.5          | 5.7                |
| Naikkhongchhari              | 74509                    | Very High (Q5)        | 30.8          | 4.2                | High (Q4)          | 43.6          | 5.4                |
| Rowangchhari                 | 26069                    | High (Q4)             | 23.4          | 14.9               | Moderate (Q3)      | 37.5          | 9.6                |
| Ruma                         | 30065                    | Very High (Q5)        | 28.7          | 13.7               | Moderate (Q3)      | 41.1          | 7.6                |
| Thanchi                      | 26925                    | Very High (Q5)        | 32.8          | 15.6               | Very High (Q5)     | 53.4          | 12.8               |
| <b>Brahmanbaria District</b> | <b>3227902</b>           | <b>Moderate (Q3)</b>  | <b>20.2</b>   | <b>2.7</b>         | <b>Moderate</b>    | <b>32.1</b>   | <b>2.6</b>         |
| Akhaura                      | 164102                   | Moderate (Q3)         | 16.8          | 9.0                | Moderate (Q3)      | 37.1          | 3.8                |
| Banchharampur                | 327327                   | Very Low (Q1)         | 3.6           | 2.9                | Very Low (Q1)      | 15.7          | 5.4                |
| Bijoynagar                   | 286164                   | Moderate (Q3)         | 19.7          | 14.7               | Moderate (Q3)      | 37.0          | 9.1                |
| Brahmanbaria Sadar           | 645099                   | Low (Q2)              | 13.8          | 3.0                | Low (Q2)           | 25.7          | 3.9                |
| Ashuganj                     | 203505                   | Moderate (Q3)         | 17.3          | 9.6                | Low (Q2)           | 28.1          | 4.3                |

ANNEX 1: DIVISION, DISTRICT AND UPAZILA LEVEL POVERTY RATES OF 2022 AND 2010 (Continued)

| Name                       | Population <sup>20</sup> | 2022             |               |                    | 2010 <sup>21</sup> |               |                    |
|----------------------------|--------------------------|------------------|---------------|--------------------|--------------------|---------------|--------------------|
|                            |                          | Quintile         | HCR Upper (%) | Standard Error (%) | Quintile           | HCR Upper (%) | Standard Error (%) |
| Kasba                      | 352248                   | Low (Q2)         | 13.9          | 10.1               | Low (Q2)           | 28.4          | 9.3                |
| Nabinagar                  | 546739                   | High (Q4)        | 26.1          | 3.8                | Moderate (Q3)      | 41.0          | 4.8                |
| Nasirnagar                 | 344111                   | Very High (Q5)   | 45.9          | 6.0                | Moderate (Q3)      | 37.7          | 7.1                |
| Sarail                     | 358607                   | High (Q4)        | 22.7          | 13.7               | Moderate (Q3)      | 38.6          | 4.9                |
| <b>Chandpur District</b>   | <b>2580728</b>           | <b>High (Q4)</b> | <b>24.6</b>   | <b>3.5</b>         | <b>High</b>        | <b>48.9</b>   | <b>2.6</b>         |
| Chandpur Sadar             | 516696                   | Very High (Q5)   | 34.0          | 2.2                | High (Q4)          | 42.8          | 5.1                |
| Faridganj                  | 426082                   | Low (Q2)         | 14.0          | 3.6                | High (Q4)          | 43.8          | 5.4                |
| Haimchar                   | 123584                   | Very High (Q5)   | 36.5          | 4.6                | Very High (Q5)     | 58.2          | 13.7               |
| Hajiganj                   | 351981                   | High (Q4)        | 24.0          | 14.9               | Very High (Q5)     | 55.1          | 4.8                |
| Kachua                     | 396813                   | Very Low (Q1)    | 7.6           | 4.3                | High (Q4)          | 47.5          | 5.5                |
| Matlab Dakkhin             | 221770                   | High (Q4)        | 25.2          | 11.9               | High (Q4)          | 49.8          | 9.1                |
| Matlab Uttar               | 292872                   | Very High (Q5)   | 40.7          | 4.7                | Very High (Q5)     | 51.3          | 5.2                |
| Shahrasti                  | 250930                   | High (Q4)        | 26.0          | 14.7               | Very High (Q5)     | 55.3          | 5.1                |
| <b>Chattogram District</b> | <b>8813087</b>           | <b>Low (Q2)</b>  | <b>12.0</b>   | <b>1.3</b>         | <b>Very low</b>    | <b>18.2</b>   | <b>1.9</b>         |
| Akbarshah                  | 146436                   | Low (Q2)         | 12.7          | 1.7                | Very Low (Q1)      | 4.4           | 2.3                |
| Anwara                     | 311458                   | Very High (Q5)   | 34.3          | 4.4                | Very Low (Q1)      | 19.4          | 9.1                |
| Bayejid Bostami            | 373753                   | Very Low (Q1)    | 8.9           | 3.1                | Very Low (Q1)      | 10.2          | 1.8                |
| Banshkhali                 | 526717                   | High (Q4)        | 21.4          | 5.3                | Moderate (Q3)      | 33.0          | 4.0                |
| Bakalia                    | 218922                   | Low (Q2)         | 12.7          | 3.1                | Very Low (Q1)      | 5.6           | 3.9                |
| Boalkhali                  | 253856                   | Low (Q2)         | 11.5          | 5.3                | Very Low (Q1)      | 11.7          | 5.3                |
| Chalk Bazar                | 107160                   | Very Low (Q1)    | 2.5           | 1.3                | Very Low (Q1)      | 1.6           | 1.3                |
| Chandanaish                | 246282                   | Low (Q2)         | 13.3          | 7.7                | Low (Q2)           | 21.0          | 4.1                |
| Chandgaon                  | 297492                   | Very Low (Q1)    | 8.0           | 1.5                | Very Low (Q1)      | 6.1           | 1.4                |
| Chattogram Port            | 166861                   | Very Low (Q1)    | 6.7           | 1.4                | Very Low (Q1)      | 3.9           | 2.9                |
| Double Mooring             | 236454                   | Very Low (Q1)    | 1.1           | 1.6                | Very Low (Q1)      | 1.0           | 1.1                |
| EPZ                        | 237441                   | Very Low (Q1)    | 2.6           | 1.1                | Very Low (Q1)      | 3.3           | 0.7                |
| Fatikchhari                | 621041                   | Moderate (Q3)    | 17.3          | 9.2                | Very Low (Q1)      | 16.8          | 4.1                |
| Halishahar                 | 223012                   | Very Low (Q1)    | 6.0           | 1.5                | Very Low (Q1)      | 4.1           | 1.2                |
| Hathazari                  | 470083                   | Low (Q2)         | 13.6          | 2.4                | Very Low (Q1)      | 8.7           | 4.6                |
| Karnaphuli                 | 198192                   | Moderate (Q3)    | 15.4          | 6.8                | Very Low (Q1)      | 15.9          | 7.8                |
| Kotwali                    | 206959                   | Very Low (Q1)    | 6.7           | 1.4                | Very Low (Q1)      | 1.4           | 1.1                |
| Khulshi                    | 193239                   | Very Low (Q1)    | 5.8           | 2.1                | Very Low (Q1)      | 2.5           | 2.2                |
| Lohagara                   | 318359                   | Low (Q2)         | 13.2          | 3.5                | Low (Q2)           | 24.3          | 4.2                |
| Mirsarai                   | 458898                   | High (Q4)        | 25.0          | 3.9                | Very Low (Q1)      | 6.8           | 3.3                |
| Pahartali                  | 184488                   | Very Low (Q1)    | 8.4           | 2.3                | Very Low (Q1)      | 4.6           | 4.1                |
| Panchlaish                 | 199014                   | Very Low (Q1)    | 1.6           | 1.9                | Very Low (Q1)      | 3.0           | 3.2                |
| Patiya                     | 387531                   | Low (Q2)         | 12.5          | 3.0                | Very Low (Q1)      | 20.3          | 3.5                |
| Patenga                    | 155542                   | Very Low (Q1)    | 4.3           | 1.8                | Very Low (Q1)      | 2.4           | 1.4                |
| Rangunia                   | 382940                   | Very Low (Q1)    | 4.1           | 3.1                | Very Low (Q1)      | 15.0          | 6.5                |

ANNEX 1: DIVISION, DISTRICT AND UPAZILA LEVEL POVERTY RATES OF 2022 AND 2010 (Continued)

| Name                        | Population <sup>20</sup> | 2022             |               |                    | 2010 <sup>21</sup> |               |                    |
|-----------------------------|--------------------------|------------------|---------------|--------------------|--------------------|---------------|--------------------|
|                             |                          | Quintile         | HCR Upper (%) | Standard Error (%) | Quintile           | HCR Upper (%) | Standard Error (%) |
| Raozan                      | 383740                   | Low (Q2)         | 9.8           | 5.3                | Very Low (Q1)      | 14.3          | 2.8                |
| Sadarghat                   | 102931                   | Very Low (Q1)    | 3.7           | 2.1                | Very Low (Q1)      | 3.6           | 2.6                |
| Sandwip                     | 324425                   | Low (Q2)         | 10.8          | 3.5                | Very Low (Q1)      | 19.5          | 3.6                |
| Satkania                    | 440129                   | Low (Q2)         | 14.1          | 7.3                | Very Low (Q1)      | 18.4          | 3.4                |
| Sitakunda                   | 439732                   | Very Low (Q1)    | 5.3           | 3.0                | Very Low (Q1)      | 14.2          | 6.2                |
| <b>Cumilla District</b>     | <b>6017180</b>           | <b>Low (Q2)</b>  | <b>13.4</b>   | <b>2.0</b>         | <b>Moderate</b>    | <b>37.4</b>   | <b>2.1</b>         |
| Barura                      | 443946                   | Very High (Q5)   | 28.4          | 3.7                | High (Q4)          | 43.4          | 5.6                |
| Brahmanpara                 | 228514                   | Moderate (Q3)    | 15.9          | 10.1               | Moderate (Q3)      | 35.8          | 5.5                |
| Burichang                   | 339299                   | High (Q4)        | 21.5          | 3.5                | Moderate (Q3)      | 33.9          | 11.3               |
| Chandina                    | 387382                   | Moderate (Q3)    | 15.2          | 11.0               | High (Q4)          | 42.9          | 5.7                |
| Chauddagram                 | 492696                   | Low (Q2)         | 12.3          | 3.4                | Low (Q2)           | 30.6          | 6.0                |
| Sadar Dakkhin               | 319134                   | Very Low (Q1)    | 6.0           | 2.4                | Low (Q2)           | 31.0          | 8.0                |
| Daudkandi                   | 386757                   | Low (Q2)         | 14.8          | 10.4               | Low (Q2)           | 30.4          | 5.5                |
| Debidwar                    | 459951                   | Very Low (Q1)    | 6.1           | 2.8                | Low (Q2)           | 31.3          | 5.6                |
| Homna                       | 222303                   | Moderate (Q3)    | 18.1          | 10.6               | High (Q4)          | 41.7          | 8.7                |
| Adarsha Sadar               | 629199                   | Very Low (Q1)    | 7.0           | 1.8                | Low (Q2)           | 28.6          | 2.8                |
| Laksam                      | 324287                   | Moderate (Q3)    | 16.3          | 12.0               | High (Q4)          | 45.7          | 4.6                |
| Lalmai                      | 211912                   | Low (Q2)         | 10.3          | 2.9                | Moderate (Q3)      | 33.2          | 11.3               |
| Manoharganj                 | 270903                   | Moderate (Q3)    | 16.1          | 10.9               | Moderate (Q3)      | 40.9          | 11.5               |
| Meghna                      | 116211                   | Moderate (Q3)    | 17.5          | 13.6               | High (Q4)          | 42.9          | 10.2               |
| Muradnagar                  | 565030                   | Very Low (Q1)    | 9.3           | 3.9                | Moderate (Q3)      | 38.4          | 5.8                |
| Nangalkot                   | 420035                   | Low (Q2)         | 10.1          | 3.3                | Very High (Q5)     | 53.0          | 5.0                |
| Titas                       | 199621                   | Moderate (Q3)    | 15.4          | 12.9               | High (Q4)          | 41.4          | 9.5                |
| <b>Cox's Bazar District</b> | <b>2740161</b>           | <b>High (Q4)</b> | <b>27.8</b>   | <b>5.0</b>         | <b>Low</b>         | <b>31.6</b>   | <b>3.2</b>         |
| Chakaria                    | 557613                   | Very High (Q5)   | 43.3          | 4.2                | Low (Q2)           | 21.2          | 4.1                |
| Cox's Bazar Sadar           | 389067                   | Low (Q2)         | 10.3          | 4.6                | Low (Q2)           | 30.0          | 3.2                |
| Eidgaon                     | 146687                   | Low (Q2)         | 11.7          | 5.1                | Low (Q2)           | 23.8          | 9.5                |
| Kutubdia                    | 142012                   | Very High (Q5)   | 31.9          | 13.5               | Moderate (Q3)      | 34.4          | 12.6               |
| Maheshkhali                 | 381522                   | Very High (Q5)   | 32.7          | 15.8               | High (Q4)          | 41.2          | 5.2                |
| Pekua                       | 210325                   | High (Q4)        | 25.5          | 4.9                | Moderate (Q3)      | 33.2          | 12.3               |
| Ramu                        | 326071                   | Very High (Q5)   | 30.3          | 15.8               | Low (Q2)           | 31.0          | 6.0                |
| Teknaf                      | 328551                   | High (Q4)        | 21.2          | 5.6                | Moderate (Q3)      | 40.2          | 13.3               |
| Ukhia                       | 258313                   | High (Q4)        | 27.4          | 16.9               | Moderate (Q3)      | 34.1          | 12.3               |
| <b>Feni District</b>        | <b>1589784</b>           | <b>Low (Q2)</b>  | <b>10.5</b>   | <b>3.2</b>         | <b>Very low</b>    | <b>20.0</b>   | <b>2.8</b>         |
| Chhagalnaiya                | 201576                   | Very Low (Q1)    | 8.0           | 5.2                | Very Low (Q1)      | 16.1          | 6.4                |
| Daganbhuiyan                | 271383                   | Low (Q2)         | 11.7          | 2.2                | Very Low (Q1)      | 12.1          | 2.4                |
| Feni Sadar                  | 599797                   | Very Low (Q1)    | 9.4           | 5.6                | Very Low (Q1)      | 17.3          | 3.5                |
| Fulgazi                     | 121600                   | Very Low (Q1)    | 4.1           | 3.1                | Very Low (Q1)      | 20.1          | 10.5               |
| Parashuram                  | 110357                   | Low (Q2)         | 11.3          | 7.4                | Low (Q2)           | 20.9          | 3.6                |
| Sonagazi                    | 285071                   | Moderate (Q3)    | 15.6          | 10.3               | Moderate (Q3)      | 35.0          | 5.1                |

ANNEX 1: DIVISION, DISTRICT AND UPAZILA LEVEL POVERTY RATES OF 2022 AND 2010 (Continued)

| Name                         | Population <sup>20</sup> | 2022                 |               |                    | 2010 <sup>21</sup> |               |                    |
|------------------------------|--------------------------|----------------------|---------------|--------------------|--------------------|---------------|--------------------|
|                              |                          | Quintile             | HCR Upper (%) | Standard Error (%) | Quintile           | HCR Upper (%) | Standard Error (%) |
| <b>Khagrachhari District</b> | <b>690804</b>            | <b>Moderate (Q3)</b> | <b>15.9</b>   | <b>4.5</b>         | <b>Low</b>         | <b>27.5</b>   | <b>3.2</b>         |
| Dighinala                    | 11170                    | Moderate (Q3)        | 17.9          | 10.5               | Very Low (Q1)      | 18.9          | 4.4                |
| Guimara                      | 51700                    | Low (Q2)             | 12.9          | 7.1                | Moderate (Q3)      | 36.3          | 11.5               |
| Khagrachhari Sadar           | 129429                   | Low (Q2)             | 12.9          | 6.0                | Low (Q2)           | 22.9          | 6.9                |
| Lakkhichhari                 | 26394                    | Moderate (Q3)        | 20.5          | 13.6               | Moderate (Q3)      | 34.2          | 14.5               |
| Mahalchhari                  | 47695                    | Moderate (Q3)        | 16.6          | 10.1               | Low (Q2)           | 30.3          | 5.6                |
| Manikchhari                  | 74971                    | Moderate (Q3)        | 15.0          | 7.9                | Low (Q2)           | 30.3          | 10.9               |
| Matiranga                    | 123878                   | Moderate (Q3)        | 19.4          | 11.9               | Moderate (Q3)      | 32.3          | 4.3                |
| Panchhari                    | 67200                    | Low (Q2)             | 14.1          | 8.3                | Low (Q2)           | 26.9          | 9.0                |
| Ramgarh                      | 58367                    | Low (Q2)             | 14.7          | 6.7                | Low (Q2)           | 28.1          | 5.2                |
| <b>Lakshmipur District</b>   | <b>1894560</b>           | <b>Moderate (Q3)</b> | <b>15.6</b>   | <b>3.2</b>         | <b>Moderate</b>    | <b>32.6</b>   | <b>3.0</b>         |
| Kamalnagar                   | 213870                   | High (Q4)            | 22.7          | 15.0               | Moderate (Q3)      | 35.1          | 7.4                |
| Lakshmipur Sadar             | 792380                   | Low (Q2)             | 10.0          | 2.3                | Moderate (Q3)      | 38.6          | 4.5                |
| Raipur                       | 307672                   | Low (Q2)             | 14.4          | 7.0                | Low (Q2)           | 23.0          | 4.3                |
| Ramganj                      | 305344                   | Moderate (Q3)        | 17.0          | 2.8                | Low (Q2)           | 27.3          | 6.4                |
| Ramgati                      | 275294                   | High (Q4)            | 25.9          | 15.1               | Low (Q2)           | 30.3          | 4.7                |
| <b>Noakhali District</b>     | <b>3541700</b>           | <b>Very Low (Q1)</b> | <b>6.1</b>    | <b>1.9</b>         | <b>Very low</b>    | <b>9.8</b>    | <b>2.3</b>         |
| Begumganj                    | 590796                   | Very Low (Q1)        | 2.5           | 1.4                | Very Low (Q1)      | 6.8           | 2.0                |
| Chatkhil                     | 252207                   | Very Low (Q1)        | 3.6           | 3.5                | Very Low (Q1)      | 9.3           | 2.2                |
| Companiganj                  | 296351                   | Low (Q2)             | 13.8          | 2.1                | Very Low (Q1)      | 9.0           | 5.7                |
| Hatiya                       | 532493                   | Very Low (Q1)        | 3.9           | 5.3                | Very Low (Q1)      | 10.9          | 3.7                |
| Kabirhat                     | 236512                   | Very Low (Q1)        | 7.2           | 5.7                | Very Low (Q1)      | 13.8          | 7.1                |
| Senbag                       | 305673                   | Very Low (Q1)        | 4.3           | 5.8                | Very Low (Q1)      | 7.0           | 4.0                |
| Sonaimuri                    | 357940                   | Very Low (Q1)        | 6.1           | 1.6                | Very Low (Q1)      | 7.1           | 3.8                |
| Subarnachar                  | 352355                   | Low (Q2)             | 14.2          | 11.4               | Very Low (Q1)      | 18.7          | 8.9                |
| Noakhali Sadar               | 617373                   | Very Low (Q1)        | 4.8           | 2.1                | Very Low (Q1)      | 9.8           | 2.2                |
| <b>Rangamati District</b>    | <b>616090</b>            | <b>Low (Q2)</b>      | <b>14.3</b>   | <b>5.6</b>         | <b>Low</b>         | <b>20.6</b>   | <b>2.8</b>         |
| Baghaichhari                 | 102413                   | Moderate (Q3)        | 16.6          | 9.2                | Very Low (Q1)      | 16.5          | 4.3                |
| Barkal                       | 47544                    | Moderate (Q3)        | 15.3          | 11.5               | Low (Q2)           | 24.5          | 11.6               |
| Kawkhali                     | 63366                    | Low (Q2)             | 12.5          | 3.6                | Very Low (Q1)      | 11.0          | 3.5                |
| Belaichhari                  | 27773                    | High (Q4)            | 26.3          | 12.2               | Moderate (Q3)      | 34.5          | 13.4               |
| Kaptai                       | 51897                    | Moderate (Q3)        | 16.4          | 7.3                | Very Low (Q1)      | 16.8          | 3.9                |
| Jurachhari                   | 25942                    | Moderate (Q3)        | 15.6          | 11.9               | Low (Q2)           | 22.1          | 10.9               |
| Langadu                      | 88254                    | Low (Q2)             | 12.5          | 13.9               | Moderate (Q3)      | 37.5          | 5.4                |
| Naniarchar                   | 47947                    | Low (Q2)             | 12.9          | 10.2               | Very Low (Q1)      | 18.9          | 9.4                |
| Rajasthali                   | 25927                    | Very Low (Q1)        | 9.5           | 8.8                | Low (Q2)           | 22.4          | 8.5                |
| Rangamati Sadar              | 135027                   | Low (Q2)             | 12.4          | 3.3                | Very Low (Q1)      | 14.3          | 2.0                |

ANNEX 1: DIVISION, DISTRICT AND UPAZILA LEVEL POVERTY RATES OF 2022 AND 2010 (Continued)

| Name                  | Population <sup>20</sup> | 2022                 |               |                    | 2010 <sup>21</sup> |               |                    |
|-----------------------|--------------------------|----------------------|---------------|--------------------|--------------------|---------------|--------------------|
|                       |                          | Quintile             | HCR Upper (%) | Standard Error (%) | Quintile           | HCR Upper (%) | Standard Error (%) |
| <b>Dhaka Division</b> | <b>42041851</b>          | <b>Moderate (Q3)</b> | <b>19.6</b>   | <b>0.9</b>         |                    | <b>43.3</b>   | <b>1.7</b>         |
| <b>Dhaka District</b> | <b>13514349</b>          | <b>Very Low (Q1)</b> | <b>8.6</b>    | <b>0.7</b>         | <b>Low</b>         | <b>21.5</b>   | <b>1.7</b>         |
| Adabar                | 198174                   | Low (Q2)             | 9.8           | 2.0                | Very Low (Q1)      | 17.5          | 5.7                |
| Badda                 | 342175                   | Very Low (Q1)        | 7.4           | 1.9                | Very Low (Q1)      | 16.5          | 6.8                |
| Bangshal              | 141268                   | Very Low (Q1)        | 4.2           | 2.6                | Very Low (Q1)      | 15.4          | 3.8                |
| Bimanbandar           | 5787                     | Very Low (Q1)        | 1.4           | 1.0                | Low (Q2)           | 23.1          | 2.5                |
| Banani                | 155737                   | Low (Q2)             | 11.3          | 4.1                | Very Low (Q1)      | 19.5          | 6.3                |
| Cantonment            | 121394                   | Very Low (Q1)        | 2.9           | 1.4                | Very Low (Q1)      | 12.8          | 4.0                |
| Chawkbazar            | 103441                   | Very Low (Q1)        | 7.5           | 3.1                | Very Low (Q1)      | 15.2          | 5.0                |
| Dakkhinkhan           | 373870                   | Low (Q2)             | 9.8           | 1.7                | Low (Q2)           | 26.5          | 10.0               |
| Darussalam            | 193718                   | Low (Q2)             | 11.0          | 5.0                | Very Low (Q1)      | 15.5          | 6.5                |
| Demra                 | 264541                   | Low (Q2)             | 13.0          | 2.3                | Very Low (Q1)      | 15.1          | 2.8                |
| Dhamrai               | 497575                   | Moderate (Q3)        | 18.3          | 3.4                | Low (Q2)           | 32.0          | 4.2                |
| Dhanmondi             | 86965                    | Very Low (Q1)        | 1.5           | 0.9                | Very Low (Q1)      | 11.1          | 3.2                |
| Dohar                 | 242900                   | Moderate (Q3)        | 15.6          | 5.2                | High (Q4)          | 43.7          | 4.8                |
| Bhasantek             | 113348                   | Moderate (Q3)        | 16.2          | 4.9                | Very Low (Q1)      | 16.8          | 7.8                |
| Bhatara               | 281518                   | Very Low (Q1)        | 4.5           | 2.3                | Very Low (Q1)      | 15.7          | 2.8                |
| Gendaria              | 126731                   | Very Low (Q1)        | 2.4           | 1.5                | Very Low (Q1)      | 10.1          | 5.0                |
| Gulshan               | 93066                    | Very Low (Q1)        | 3.2           | 2.0                | Very Low (Q1)      | 13.7          | 3.6                |
| Hatirjheel            | 72061                    | Very Low (Q1)        | 5.6           | 2.9                | Very Low (Q1)      | 11.1          | 4.8                |
| Hazaribag             | 187043                   | Very Low (Q1)        | 6.3           | 3.8                | Low (Q2)           | 20.5          | 2.4                |
| Jatrabari             | 452493                   | Very Low (Q1)        | 9.4           | 1.5                | Very Low (Q1)      | 14.3          | 5.9                |
| Kafrul                | 305702                   | Very Low (Q1)        | 7.2           | 3.3                | Very Low (Q1)      | 14.0          | 4.2                |
| Kadamtali             | 400295                   | Very Low (Q1)        | 8.3           | 1.8                | Very Low (Q1)      | 15.7          | 6.8                |
| Kalabagan             | 95247                    | Very Low (Q1)        | 3.4           | 1.7                | Very Low (Q1)      | 11.9          | 4.0                |
| Kamrangichar          | 352807                   | Moderate (Q3)        | 19.1          | 3.3                | Low (Q2)           | 22.8          | 3.3                |
| Khilgaon              | 358729                   | Very Low (Q1)        | 6.1           | 1.9                | Very Low (Q1)      | 13.4          | 5.3                |
| Khilkhet              | 157142                   | Very Low (Q1)        | 7.7           | 3.8                | Low (Q2)           | 23.4          | 6.4                |
| Keraniganj            | 953448                   | Very Low (Q1)        | 8.1           | 2.1                | Moderate (Q3)      | 41.0          | 12.4               |
| Kotwali               | 36413                    | Very Low (Q1)        | 2.9           | 1.9                | Very Low (Q1)      | 11.2          | 2.6                |
| Lalbag                | 168410                   | Very Low (Q1)        | 8.9           | 1.8                | Very Low (Q1)      | 19.7          | 2.8                |
| Mirpur                | 500942                   | Low (Q2)             | 12.6          | 1.5                | Very Low (Q1)      | 13.9          | 2.4                |
| Mohammadpur           | 469673                   | Very Low (Q1)        | 4.6           | 1.8                | Very Low (Q1)      | 10.2          | 2.8                |
| Motijheel             | 61101                    | Very Low (Q1)        | 3.6           | 2.2                | Very Low (Q1)      | 19.1          | 2.8                |
| Mugda                 | 196074                   | Very Low (Q1)        | 6.7           | 4.1                | Very Low (Q1)      | 14.4          | 6.0                |
| Nawabganj             | 342963                   | Moderate (Q3)        | 18.3          | 3.1                | Moderate (Q3)      | 40.4          | 4.5                |
| Newmarket             | 39372                    | Very Low (Q1)        | 1.7           | 1.0                | Very Low (Q1)      | 7.9           | 2.5                |
| Pallabi               | 562094                   | Very Low (Q1)        | 6.6           | 1.6                | Very Low (Q1)      | 20.1          | 2.2                |
| Paltan                | 43063                    | Very Low (Q1)        | 1.0           | 1.1                | Very Low (Q1)      | 7.1           | 1.9                |
| Ramna                 | 178049                   | Very Low (Q1)        | 4.4           | 1.3                | Very Low (Q1)      | 7.4           | 2.2                |

ANNEX 1: DIVISION, DISTRICT AND UPAZILA LEVEL POVERTY RATES OF 2022 AND 2010 (Continued)

| Name                     | Population <sup>20</sup> | 2022                 |               |                    | 2010 <sup>21</sup> |               |                    |
|--------------------------|--------------------------|----------------------|---------------|--------------------|--------------------|---------------|--------------------|
|                          |                          | Quintile             | HCR Upper (%) | Standard Error (%) | Quintile           | HCR Upper (%) | Standard Error (%) |
| Rampura                  | 146398                   | Very Low (Q1)        | 6.3           | 2.5                | Very Low (Q1)      | 10.7          | 3.8                |
| Sabujbag                 | 247294                   | Very Low (Q1)        | 5.1           | 2.0                | Very Low (Q1)      | 12.9          | 5.4                |
| Rupnagar                 | 168599                   | Low (Q2)             | 11.3          | 4.8                | Very Low (Q1)      | 16.7          | 7.1                |
| Savar                    | 2186852                  | Very Low (Q1)        | 7.6           | 1.1                | Moderate (Q3)      | 33.9          | 7.3                |
| Shahjahanpur             | 104866                   | Very Low (Q1)        | 3.6           | 2.2                | Very Low (Q1)      | 12.0          | 4.5                |
| Shah Ali                 | 141522                   | Very Low (Q1)        | 8.2           | 2.7                | Very Low (Q1)      | 16.1          | 5.9                |
| Shahbag                  | 31108                    | Very Low (Q1)        | 1.9           | 1.2                | Very Low (Q1)      | 13.8          | 2.7                |
| Shyampur                 | 157327                   | Very Low (Q1)        | 9.4           | 4.4                | Very Low (Q1)      | 13.0          | 2.1                |
| Sher-E-Bangla Nagar      | 131262                   | Very Low (Q1)        | 2.7           | 1.4                | Very Low (Q1)      | 13.9          | 3.3                |
| Sutrapur                 | 70805                    | Very Low (Q1)        | 2.8           | 1.9                | Very Low (Q1)      | 7.9           | 3.3                |
| Tejgaon                  | 101421                   | Very Low (Q1)        | 6.5           | 2.9                | Very Low (Q1)      | 8.8           | 1.5                |
| Tejgaon Shilpa Elaka     | 84440                    | Low (Q2)             | 9.9           | 2.5                | Low (Q2)           | 21.4          | 5.0                |
| Turag                    | 243751                   | Low (Q2)             | 11.7          | 6.6                | Moderate (Q3)      | 38.9          | 10.2               |
| Uttara Pashchim          | 159728                   | Very Low (Q1)        | 1.1           | 0.9                | Very Low (Q1)      | 15.0          | 3.1                |
| Uttara Purba             | 30309                    | Very Low (Q1)        | 2.7           | 1.3                | Very Low (Q1)      | 10.7          | 2.6                |
| Uttarkhan                | 121029                   | Very Low (Q1)        | 8.1           | 4.4                | Very Low (Q1)      | 17.8          | 6.7                |
| Wari                     | 112309                   | Very Low (Q1)        | 3.3           | 1.2                | Very Low (Q1)      | 9.1           | 3.7                |
| <b>Faridpur District</b> | <b>2103804</b>           | <b>High (Q4)</b>     | <b>27.0</b>   | <b>2.2</b>         | <b>Very high</b>   | <b>55.2</b>   | <b>2.6</b>         |
| Alfadanga                | 117076                   | High (Q4)            | 24.3          | 6.8                | Very High (Q5)     | 50.6          | 10.1               |
| Bhanga                   | 288007                   | Very High (Q5)       | 28.5          | 3.8                | High (Q4)          | 45.7          | 5.0                |
| Boalmari                 | 263237                   | High (Q4)            | 27.6          | 6.3                | Very High (Q5)     | 52.1          | 5.3                |
| Char Bhadrasan           | 69039                    | High (Q4)            | 26.6          | 6.2                | Very High (Q5)     | 60.2          | 12.0               |
| Faridpur Sadar           | 540415                   | High (Q4)            | 27.0          | 3.7                | Very High (Q5)     | 55.4          | 5.2                |
| Madhukhali               | 228342                   | High (Q4)            | 24.4          | 6.6                | Moderate (Q3)      | 41.0          | 5.1                |
| Nagarkanda               | 217717                   | High (Q4)            | 26.8          | 8.7                | Very High (Q5)     | 65.2          | 5.8                |
| Sadarpur                 | 197185                   | High (Q4)            | 24.9          | 4.0                | Very High (Q5)     | 69.6          | 5.4                |
| Saltha                   | 182786                   | Very High (Q5)       | 31.2          | 9.3                | Very High (Q5)     | 64.3          | 9.5                |
| <b>Gazipur District</b>  | <b>4983154</b>           | <b>Moderate (Q3)</b> | <b>20.7</b>   | <b>1.8</b>         | <b>Low</b>         | <b>28.1</b>   | <b>2.5</b>         |
| Basan                    | 248269                   | Very High (Q5)       | 30.9          | 8.9                | Low (Q2)           | 30.1          | 9.9                |
| Gachha                   | 371985                   | Moderate (Q3)        | 15.5          | 4.5                | Low (Q2)           | 27.8          | 9.8                |
| Gazipur Sadar            | 326460                   | Low (Q2)             | 11.3          | 2.8                | Low (Q2)           | 27.0          | 8.8                |
| Kaliakair                | 670497                   | Moderate (Q3)        | 16.0          | 3.9                | Low (Q2)           | 30.7          | 4.3                |
| Kaliganj                 | 300548                   | Moderate (Q3)        | 19.1          | 5.9                | Low (Q2)           | 26.9          | 5.0                |
| Kapasias                 | 367153                   | Moderate (Q3)        | 19.4          | 4.6                | Moderate (Q3)      | 36.3          | 4.9                |
| Kashimpur                | 365270                   | Moderate (Q3)        | 20.9          | 6.2                | Low (Q2)           | 29.0          | 8.1                |
| Konabari                 | 274149                   | Very High (Q5)       | 34.8          | 6.2                | Low (Q2)           | 31.4          | 11.9               |
| Pubail                   | 101250                   | Very High (Q5)       | 31.1          | 5.7                | Low (Q2)           | 23.7          | 8.4                |
| Sreepur                  | 807297                   | Moderate (Q3)        | 17.1          | 3.2                | Low (Q2)           | 28.8          | 3.9                |

ANNEX 1: DIVISION, DISTRICT AND UPAZILA LEVEL POVERTY RATES OF 2022 AND 2010 (Continued)

| Name                        | Population <sup>20</sup> | 2022                  |               |                    | 2010 <sup>21</sup> |               |                    |
|-----------------------------|--------------------------|-----------------------|---------------|--------------------|--------------------|---------------|--------------------|
|                             |                          | Quintile              | HCR Upper (%) | Standard Error (%) | Quintile           | HCR Upper (%) | Standard Error (%) |
| Tongi Pashchim              | 292180                   | Very High (Q5)        | 40.4          | 4.9                | Very Low (Q1)      | 17.9          | 4.1                |
| Tongi Purba                 | 422338                   | Very High (Q5)        | 30.0          | 4.9                | Low (Q2)           | 29.3          | 3.8                |
| Joydebpur                   | 435758                   | Very Low (Q1)         | 9.1           | 4.4                | Very Low (Q1)      | 17.6          | 4.0                |
| <b>Gopalganj District</b>   | <b>1251723</b>           | <b>High (Q4)</b>      | <b>25.7</b>   | <b>3.2</b>         | <b>Very high</b>   | <b>66.6</b>   | <b>2.3</b>         |
| Gopalganj Sadar             | 377396                   | High (Q4)             | 23.7          | 6.5                | Very High (Q5)     | 57.2          | 3.3                |
| Kashiani                    | 222582                   | High (Q4)             | 27.4          | 3.4                | High (Q4)          | 48.1          | 4.9                |
| Kotalipara                  | 239436                   | Very High (Q5)        | 29.2          | 8.2                | Very High (Q5)     | 75.2          | 5.7                |
| Muksudpur                   | 301921                   | High (Q4)             | 24.0          | 4.4                | Very High (Q5)     | 80.9          | 4.8                |
| Tungipara                   | 110388                   | High (Q4)             | 26.7          | 7.8                | Very High (Q5)     | 76.3          | 5.7                |
| <b>Kishoreganj District</b> | <b>3201295</b>           | <b>Very High (Q5)</b> | <b>35.3</b>   | <b>2.7</b>         | <b>High</b>        | <b>43.2</b>   | <b>3.1</b>         |
| Austagram                   | 150455                   | Very High (Q5)        | 40.8          | 10.9               | High (Q4)          | 42.5          | 5.7                |
| Bajitpur                    | 264987                   | Very High (Q5)        | 36.3          | 7.6                | High (Q4)          | 43.5          | 9.2                |
| Bhairab                     | 350749                   | Very High (Q5)        | 39.6          | 3.3                | Moderate (Q3)      | 36.9          | 4.0                |
| Hossainpur                  | 199122                   | Very High (Q5)        | 28.4          | 7.1                | High (Q4)          | 42.0          | 9.4                |
| Itna                        | 167396                   | Very High (Q5)        | 45.0          | 9.9                | High (Q4)          | 50.0          | 10.8               |
| Karimganj                   | 323638                   | Very High (Q5)        | 41.7          | 5.1                | Very High (Q5)     | 53.3          | 4.5                |
| Katiadi                     | 346608                   | Very High (Q5)        | 31.6          | 7.2                | High (Q4)          | 42.9          | 10.7               |
| Kishoreganj Sadar           | 485082                   | High (Q4)             | 26.4          | 4.2                | High (Q4)          | 46.0          | 4.7                |
| Kuliarchar                  | 198422                   | Very High (Q5)        | 33.5          | 7.4                | High (Q4)          | 45.5          | 4.3                |
| Mithamain                   | 123910                   | Very High (Q5)        | 47.4          | 8.7                | Very High (Q5)     | 50.3          | 11.1               |
| Nikli                       | 144400                   | Very High (Q5)        | 47.3          | 7.6                | High (Q4)          | 46.6          | 12.8               |
| Pakundia                    | 277847                   | High (Q4)             | 26.5          | 3.9                | Low (Q2)           | 25.9          | 4.4                |
| Tarail                      | 168679                   | Very High (Q5)        | 36.6          | 8.4                | High (Q4)          | 41.6          | 12.9               |
| <b>Madaripur District</b>   | <b>1259062</b>           | <b>Very High (Q5)</b> | <b>54.4</b>   | <b>4.6</b>         | <b>Very high</b>   | <b>52.9</b>   | <b>2.7</b>         |
| Dasar                       | 72243                    | Very High (Q5)        | 63.2          | 10.6               | High (Q4)          | 46.6          | 11.5               |
| Kalkini                     | 215564                   | Very High (Q5)        | 56.3          | 4.4                | Very High (Q5)     | 64.4          | 4.8                |
| Madaripur Sadar             | 385852                   | Very High (Q5)        | 50.0          | 8.0                | Very High (Q5)     | 58.6          | 4.8                |
| Rajoir                      | 241539                   | Very High (Q5)        | 56.0          | 9.0                | Very High (Q5)     | 60.4          | 6.2                |
| Shibchar                    | 343864                   | Very High (Q5)        | 55.1          | 4.7                | Moderate (Q3)      | 35.5          | 2.9                |
| <b>Manikganj District</b>   | <b>1526711</b>           | <b>High (Q4)</b>      | <b>22.2</b>   | <b>2.7</b>         | <b>Moderate</b>    | <b>39.2</b>   | <b>3.2</b>         |
| Daulatpur                   | 166375                   | Very High (Q5)        | 31.4          | 8.6                | High (Q4)          | 49.2          | 9.3                |
| Ghior                       | 159852                   | Very High (Q5)        | 34.6          | 3.6                | Moderate (Q3)      | 32.3          | 5.5                |
| Harirampur                  | 154342                   | High (Q4)             | 23.8          | 8.3                | High (Q4)          | 41.3          | 10.2               |
| Manikganj Sadar             | 350775                   | Moderate (Q3)         | 20.9          | 6.2                | Moderate (Q3)      | 35.7          | 5.0                |
| Saturia                     | 190219                   | Moderate (Q3)         | 17.6          | 3.6                | Moderate (Q3)      | 34.8          | 5.9                |
| Shibalay                    | 185720                   | High (Q4)             | 25.6          | 8.2                | High (Q4)          | 48.1          | 4.6                |
| Singair                     | 319428                   | Low (Q2)              | 12.6          | 3.6                | Moderate (Q3)      | 37.0          | 4.7                |
| <b>Munshiganj District</b>  | <b>1563778</b>           | <b>Low (Q2)</b>       | <b>11.3</b>   | <b>2.2</b>         | <b>High</b>        | <b>50.1</b>   | <b>4.4</b>         |
| Gazaria                     | 175861                   | Very Low (Q1)         | 8.0           | 4.2                | High (Q4)          | 49.7          | 9.0                |

ANNEX 1: DIVISION, DISTRICT AND UPAZILA LEVEL POVERTY RATES OF 2022 AND 2010 (Continued)

| Name                        | Population <sup>20</sup> | 2022                  |               |                    | 2010 <sup>21</sup> |               |                    |
|-----------------------------|--------------------------|-----------------------|---------------|--------------------|--------------------|---------------|--------------------|
|                             |                          | Quintile              | HCR Upper (%) | Standard Error (%) | Quintile           | HCR Upper (%) | Standard Error (%) |
| Louhajang                   | 171256                   | Low (Q2)              | 12.8          | 4.1                | High (Q4)          | 45.5          | 6.3                |
| Munshiganj Sadar            | 417880                   | Low (Q2)              | 14.2          | 3.0                | Very High (Q5)     | 55.4          | 5.1                |
| Sirajdikhan                 | 305545                   | Low (Q2)              | 10.7          | 5.1                | High (Q4)          | 48.3          | 5.2                |
| Sreenagar                   | 286464                   | Very Low (Q1)         | 9.1           | 3.5                | High (Q4)          | 46.7          | 7.0                |
| Tongibari                   | 206772                   | Low (Q2)              | 11.1          | 2.2                | Very High (Q5)     | 51.5          | 14.1               |
| <b>Narayanganj District</b> | <b>3740835</b>           | <b>Low (Q2)</b>       | <b>13.7</b>   | <b>1.4</b>         | <b>Moderate</b>    | <b>40.0</b>   | <b>2.4</b>         |
| Araihazar                   | 454760                   | Moderate (Q3)         | 19.1          | 5.8                | Very High (Q5)     | 53.5          | 4.4                |
| Sonargaon                   | 522461                   | Low (Q2)              | 12.2          | 2.4                | Moderate (Q3)      | 38.8          | 5.1                |
| Bandar                      | 399643                   | Moderate (Q3)         | 17.1          | 4.6                | Moderate (Q3)      | 33.2          | 4.7                |
| Narayanganj Sadar           | 1691248                  | Very Low (Q1)         | 8.9           | 1.6                | Moderate (Q3)      | 36.0          | 5.4                |
| Rupganj                     | 672723                   | Moderate (Q3)         | 21.1          | 2.2                | High (Q4)          | 45.8          | 4.3                |
| <b>Narsingdi District</b>   | <b>2499690</b>           | <b>Very High (Q5)</b> | <b>43.7</b>   | <b>3.5</b>         | <b>Moderate</b>    | <b>38.5</b>   | <b>2.4</b>         |
| Belabo                      | 211270                   | Very High (Q5)        | 49.5          | 11.2               | Moderate (Q3)      | 36.4          | 6.8                |
| Manohardi                   | 293145                   | Very High (Q5)        | 40.4          | 5.6                | High (Q4)          | 43.4          | 5.4                |
| Narsingdi Sadar             | 807445                   | Very High (Q5)        | 43.1          | 4.5                | Moderate (Q3)      | 37.0          | 4.5                |
| Palash                      | 237799                   | Very High (Q5)        | 38.3          | 7.7                | Low (Q2)           | 27.7          | 5.6                |
| Raipura                     | 602531                   | Very High (Q5)        | 47.6          | 4.5                | Very High (Q5)     | 50.3          | 3.1                |
| Shibpur                     | 347500                   | Very High (Q5)        | 41.4          | 11.1               | Low (Q2)           | 25.5          | 6.1                |
| <b>Rajbari District</b>     | <b>1169673</b>           | <b>High (Q4)</b>      | <b>27.8</b>   | <b>3.9</b>         | <b>Very high</b>   | <b>66.6</b>   | <b>3.3</b>         |
| Baliakandi                  | 226764                   | Very High (Q5)        | 40.8          | 4.0                | Very High (Q5)     | 69.8          | 6.1                |
| Goalanda                    | 127252                   | Very High (Q5)        | 32.3          | 10.0               | Very High (Q5)     | 74.1          | 8.1                |
| Kalukhali                   | 170266                   | High (Q4)             | 21.8          | 10.4               | Very High (Q5)     | 69.2          | 10.8               |
| Pangsha                     | 270222                   | High (Q4)             | 25.2          | 4.8                | Very High (Q5)     | 70.2          | 3.3                |
| Rajbari Sadar               | 375169                   | High (Q4)             | 23.0          | 7.4                | Very High (Q5)     | 58.2          | 3.8                |
| <b>Shariatpur District</b>  | <b>1271446</b>           | <b>High (Q4)</b>      | <b>27.1</b>   | <b>3.7</b>         | <b>Very high</b>   | <b>72.9</b>   | <b>3.1</b>         |
| Bhedarganj                  | 275042                   | High (Q4)             | 21.7          | 4.7                | Very High (Q5)     | 78.0          | 4.0                |
| Damudya                     | 121584                   | High (Q4)             | 22.0          | 9.6                | Very High (Q5)     | 67.7          | 10.6               |
| Gosairhat                   | 172163                   | Very High (Q5)        | 31.9          | 9.6                | Very High (Q5)     | 77.1          | 4.8                |
| Naria                       | 256101                   | High (Q4)             | 21.7          | 8.1                | Very High (Q5)     | 64.4          | 4.1                |
| Shariatpur Sadar            | 233540                   | Very High (Q5)        | 36.2          | 3.4                | Very High (Q5)     | 72.5          | 4.3                |
| Zajira                      | 213016                   | Very High (Q5)        | 29.6          | 8.9                | Very High (Q5)     | 76.3          | 9.0                |
| <b>Tangail District</b>     | <b>3956331</b>           | <b>Low (Q2)</b>       | <b>13.3</b>   | <b>2.0</b>         | <b>High</b>        | <b>43.8</b>   | <b>2.0</b>         |
| Basail                      | 187434                   | Low (Q2)              | 11.4          | 4.0                | Moderate (Q3)      | 39.8          | 7.8                |
| Bhuanpur                    | 214250                   | Very Low (Q1)         | 7.1           | 2.5                | Very High (Q5)     | 63.0          | 4.8                |
| Delduar                     | 215610                   | Low (Q2)              | 11.8          | 4.2                | High (Q4)          | 44.6          | 9.2                |
| Dhanbari                    | 185144                   | Low (Q2)              | 12.1          | 4.1                | High (Q4)          | 45.4          | 7.1                |
| Ghatail                     | 442113                   | Low (Q2)              | 11.9          | 4.2                | High (Q4)          | 45.8          | 3.8                |
| Gopalpur                    | 267817                   | Moderate (Q3)         | 15.0          | 3.8                | High (Q4)          | 44.4          | 8.3                |
| Kalihati                    | 440553                   | Low (Q2)              | 14.0          | 4.8                | Very High (Q5)     | 51.5          | 5.7                |

ANNEX 1: DIVISION, DISTRICT AND UPAZILA LEVEL POVERTY RATES OF 2022 AND 2010 (Continued)

| Name                      | Population <sup>20</sup> | 2022                 |               |                    | 2010 <sup>21</sup> |               |                    |
|---------------------------|--------------------------|----------------------|---------------|--------------------|--------------------|---------------|--------------------|
|                           |                          | Quintile             | HCR Upper (%) | Standard Error (%) | Quintile           | HCR Upper (%) | Standard Error (%) |
| Madhupur                  | 330527                   | Moderate (Q3)        | 17.3          | 3.3                | High (Q4)          | 41.5          | 4.3                |
| Mirzapur                  | 462991                   | Very Low (Q1)        | 8.7           | 3.0                | High (Q4)          | 43.0          | 5.4                |
| Nagarpur                  | 316524                   | Low (Q2)             | 13.5          | 5.4                | High (Q4)          | 45.8          | 5.3                |
| Sakhipur                  | 315037                   | Moderate (Q3)        | 18.9          | 2.7                | Moderate (Q3)      | 36.8          | 5.6                |
| Tangail Sadar             | 578331                   | Low (Q2)             | 14.9          | 4.4                | Moderate (Q3)      | 33.4          | 4.5                |
| <b>Khulna Division</b>    | <b>17091200</b>          | <b>Moderate (Q3)</b> | <b>17.1</b>   | <b>0.8</b>         |                    | <b>32.1</b>   | <b>2.3</b>         |
| <b>Bagerhat District</b>  | <b>1582590</b>           | <b>Low (Q2)</b>      | <b>13.7</b>   | <b>1.8</b>         | <b>Very high</b>   | <b>51.7</b>   | <b>3.8</b>         |
| Bagerhat Sadar            | 282229                   | Low (Q2)             | 14.3          | 2.3                | High (Q4)          | 43.7          | 7.9                |
| Chitalmari                | 152338                   | Low (Q2)             | 14.9          | 6.4                | High (Q4)          | 44.7          | 5.9                |
| Fakirhat                  | 157097                   | Low (Q2)             | 11.4          | 2.8                | High (Q4)          | 46.7          | 5.8                |
| Kachua                    | 106532                   | Low (Q2)             | 14.7          | 5.4                | Very High (Q5)     | 53.7          | 9.9                |
| Mollahat                  | 141170                   | Moderate (Q3)        | 17.1          | 5.8                | Very High (Q5)     | 55.4          | 9.2                |
| Mongla                    | 153932                   | Very Low (Q1)        | 7.4           | 2.1                | Very High (Q5)     | 56.6          | 4.9                |
| Morelganj                 | 301874                   | Low (Q2)             | 11.2          | 3.4                | Very High (Q5)     | 52.5          | 6.3                |
| Rampal                    | 168597                   | Low (Q2)             | 12.6          | 5.3                | Very High (Q5)     | 61.9          | 6.5                |
| Sharankhola               | 118821                   | High (Q4)            | 24.3          | 2.7                | Very High (Q5)     | 57.5          | 9.1                |
| <b>Chuadanga District</b> | <b>1219036</b>           | <b>Moderate (Q3)</b> | <b>20.9</b>   | <b>2.7</b>         | <b>Low</b>         | <b>28.4</b>   | <b>3.2</b>         |
| Alamdanga                 | 365195                   | High (Q4)            | 24.8          | 3.8                | Low (Q2)           | 29.4          | 4.3                |
| Chuadanga Sadar           | 344072                   | Moderate (Q3)        | 15.5          | 2.7                | Low (Q2)           | 24.3          | 3.7                |
| Damurhuda                 | 314172                   | High (Q4)            | 21.2          | 6.9                | Low (Q2)           | 29.3          | 5.3                |
| Jibannagar                | 195597                   | High (Q4)            | 22.8          | 4.5                | Low (Q2)           | 32.0          | 5.5                |
| <b>Jashore District</b>   | <b>3004239</b>           | <b>Moderate (Q3)</b> | <b>20.0</b>   | <b>1.5</b>         | <b>Moderate</b>    | <b>41.0</b>   | <b>2.5</b>         |
| Abhaynagar                | 283395                   | High (Q4)            | 27.2          | 3.4                | High (Q4)          | 42.8          | 5.3                |
| Bagharpara                | 236314                   | High (Q4)            | 24.6          | 6.5                | High (Q4)          | 45.2          | 8.3                |
| Chaugachha                | 246548                   | Low (Q2)             | 11.8          | 3.8                | High (Q4)          | 41.1          | 5.0                |
| Jhikargachha              | 327869                   | High (Q4)            | 26.4          | 3.0                | Moderate (Q3)      | 38.5          | 5.6                |
| Keshabpur                 | 277655                   | Very High (Q5)       | 33.4          | 4.6                | Very High (Q5)     | 50.9          | 5.4                |
| Jashore Sadar             | 804026                   | Low (Q2)             | 13.2          | 2.9                | Moderate (Q3)      | 34.9          | 5.3                |
| Manirampur                | 445492                   | Moderate (Q3)        | 20.4          | 2.9                | Moderate (Q3)      | 41.0          | 6.0                |
| Sharsha                   | 382940                   | Moderate (Q3)        | 15.5          | 3.1                | High (Q4)          | 44.2          | 5.1                |
| <b>Jhenaidah District</b> | <b>1969715</b>           | <b>High (Q4)</b>     | <b>21.2</b>   | <b>2.0</b>         | <b>Low</b>         | <b>23.6</b>   | <b>2.3</b>         |
| Harinakundu               | 216994                   | High (Q4)            | 21.9          | 7.0                | Low (Q2)           | 29.8          | 4.6                |
| Jhenaidah Sadar           | 528242                   | High (Q4)            | 21.7          | 2.4                | Very Low (Q1)      | 20.1          | 3.6                |
| Kaliganj                  | 305392                   | Low (Q2)             | 14.9          | 3.0                | Very Low (Q1)      | 19.0          | 4.1                |
| Kotchandpur               | 155335                   | Moderate (Q3)        | 16.1          | 4.7                | Low (Q2)           | 21.1          | 5.4                |
| Maheshpur                 | 367678                   | Moderate (Q3)        | 20.3          | 4.5                | Low (Q2)           | 27.2          | 3.6                |
| Shailkupa                 | 396074                   | High (Q4)            | 27.7          | 4.4                | Low (Q2)           | 26.0          | 4.9                |
| <b>Khulna District</b>    | <b>2535569</b>           | <b>Low (Q2)</b>      | <b>10.2</b>   | <b>1.5</b>         | <b>High</b>        | <b>44.8</b>   | <b>2.6</b>         |
| Batiaghata                | 226308                   | Very Low (Q1)        | 9.5           | 2.8                | High (Q4)          | 45.0          | 6.6                |
| Dacope                    | 158167                   | Low (Q2)             | 12.8          | 4.9                | High (Q4)          | 45.3          | 4.6                |

ANNEX 1: DIVISION, DISTRICT AND UPAZILA LEVEL POVERTY RATES OF 2022 AND 2010 (Continued)

| Name                     | Population <sup>20</sup> | 2022                 |               |                    | 2010 <sup>21</sup> |               |                    |
|--------------------------|--------------------------|----------------------|---------------|--------------------|--------------------|---------------|--------------------|
|                          |                          | Quintile             | HCR Upper (%) | Standard Error (%) | Quintile           | HCR Upper (%) | Standard Error (%) |
| Daulatpur                | 97544                    | Very Low (Q1)        | 5.2           | 1.4                | Moderate (Q3)      | 32.3          | 9.1                |
| Dumuria                  | 338760                   | Low (Q2)             | 9.9           | 2.8                | High (Q4)          | 47.2          | 6.4                |
| Dighalia                 | 161129                   | Very Low (Q1)        | 8.5           | 2.9                | Moderate (Q3)      | 40.5          | 6.7                |
| Khalishpur               | 150929                   | Very Low (Q1)        | 5.5           | 0.7                | Moderate (Q3)      | 39.0          | 3.6                |
| Khan Jahan Ali           | 6229                     | Very Low (Q1)        | 5.3           | 2.7                | Moderate (Q3)      | 32.6          | 8.9                |
| Khulna Sadar             | 231396                   | Very Low (Q1)        | 4.6           | 0.7                | Low (Q2)           | 30.9          | 4.2                |
| Koyra                    | 219343                   | Low (Q2)             | 13.1          | 6.1                | High (Q4)          | 48.0          | 6.2                |
| Paikgachha               | 284525                   | Moderate (Q3)        | 17.0          | 3.1                | High (Q4)          | 46.7          | 5.8                |
| Phultala                 | 144063                   | Moderate (Q3)        | 15.8          | 2.1                | Moderate (Q3)      | 36.5          | 6.6                |
| Rupsa                    | 204055                   | Low (Q2)             | 11.8          | 4.4                | High (Q4)          | 42.4          | 6.5                |
| Sonadanga                | 185025                   | Very Low (Q1)        | 3.7           | 0.7                | Low (Q2)           | 20.5          | 5.4                |
| Terokhada                | 128096                   | Low (Q2)             | 10.6          | 3.8                | High (Q4)          | 45.8          | 5.5                |
| <b>Kushtia District</b>  | <b>2119248</b>           | <b>Moderate (Q3)</b> | <b>18.0</b>   | <b>1.7</b>         | <b>Very low</b>    | <b>4.8</b>    | <b>1.4</b>         |
| Bheramara                | 222524                   | Moderate (Q3)        | 18.2          | 5.7                | Very Low (Q1)      | 4.5           | 2.7                |
| Daulatpur                | 479263                   | High (Q4)            | 23.7          | 2.9                | Very Low (Q1)      | 6.5           | 1.9                |
| Khoksa                   | 142999                   | High (Q4)            | 21.6          | 7.1                | Very Low (Q1)      | 6.4           | 3.0                |
| Kumarkhali               | 371800                   | High (Q4)            | 26.6          | 3.2                | Very Low (Q1)      | 3.7           | 2.4                |
| Kushtia Sadar            | 543631                   | Low (Q2)             | 10.2          | 2.5                | Very Low (Q1)      | 4.6           | 1.4                |
| Mirpur                   | 359031                   | Low (Q2)             | 11.6          | 2.4                | Very Low (Q1)      | 3.3           | 1.7                |
| <b>Magura District</b>   | <b>1017133</b>           | <b>High (Q4)</b>     | <b>22.8</b>   | <b>3.2</b>         | <b>High</b>        | <b>48.1</b>   | <b>3.5</b>         |
| Magura Sadar             | 417455                   | High (Q4)            | 21.3          | 3.9                | High (Q4)          | 47.5          | 4.2                |
| Mohammadpur              | 240505                   | High (Q4)            | 24.8          | 8.4                | Very High (Q5)     | 55.3          | 5.1                |
| Shalikha                 | 176615                   | Moderate (Q3)        | 20.4          | 3.4                | Moderate (Q3)      | 41.0          | 7.1                |
| Sreepur                  | 182558                   | High (Q4)            | 26.0          | 7.6                | High (Q4)          | 47.2          | 6.8                |
| <b>Meherpur District</b> | <b>699477</b>            | <b>Low (Q2)</b>      | <b>9.8</b>    | <b>1.7</b>         | <b>Very low</b>    | <b>14.6</b>   | <b>2.7</b>         |
| Gangni                   | 320627                   | Low (Q2)             | 10.3          | 2.1                | Very Low (Q1)      | 19.0          | 3.6                |
| Mujibnagar               | 104180                   | Very Low (Q1)        | 9.7           | 2.2                | Very Low (Q1)      | 12.6          | 3.7                |
| Meherpur Sadar           | 274670                   | Very Low (Q1)        | 9.3           | 3.1                | Very Low (Q1)      | 10.2          | 2.9                |
| <b>Narail District</b>   | <b>774876</b>            | <b>Low (Q2)</b>      | <b>14.9</b>   | <b>2.9</b>         | <b>Low</b>         | <b>24.5</b>   | <b>2.3</b>         |
| Kalia                    | 239764                   | Moderate (Q3)        | 20.4          | 2.7                | Very Low (Q1)      | 18.9          | 4.3                |
| Lohagara                 | 244063                   | Low (Q2)             | 10.5          | 2.9                | Low (Q2)           | 28.1          | 3.2                |
| Narail Sadar             | 291049                   | Low (Q2)             | 14.0          | 6.1                | Low (Q2)           | 26.1          | 3.2                |
| <b>Satkhira District</b> | <b>2169317</b>           | <b>Moderate (Q3)</b> | <b>17.3</b>   | <b>1.8</b>         | <b>High</b>        | <b>46.4</b>   | <b>2.4</b>         |
| Ashashuni                | 279404                   | High (Q4)            | 22.4          | 4.1                | Very High (Q5)     | 50.8          | 4.9                |
| Debhata                  | 131972                   | Very Low (Q1)        | 9.5           | 2.5                | High (Q4)          | 42.9          | 7.4                |
| Kalaroa                  | 259539                   | Low (Q2)             | 12.7          | 5.9                | High (Q4)          | 45.0          | 4.8                |
| Kaliganj                 | 302056                   | Moderate (Q3)        | 17.8          | 2.9                | High (Q4)          | 45.3          | 5.5                |
| Satkhira Sadar           | 511808                   | Low (Q2)             | 13.0          | 3.0                | High (Q4)          | 43.7          | 3.6                |
| Shyamnagar               | 361034                   | High (Q4)            | 25.4          | 3.5                | Very High (Q5)     | 52.5          | 4.6                |
| Tala                     | 323504                   | Moderate (Q3)        | 17.2          | 3.6                | High (Q4)          | 43.7          | 5.7                |

ANNEX 1: DIVISION, DISTRICT AND UPAZILA LEVEL POVERTY RATES OF 2022 AND 2010 (Continued)

| Name                       | Population <sup>20</sup> | 2022                  |               |                    | 2010 <sup>21</sup> |               |                    |
|----------------------------|--------------------------|-----------------------|---------------|--------------------|--------------------|---------------|--------------------|
|                            |                          | Quintile              | HCR Upper (%) | Standard Error (%) | Quintile           | HCR Upper (%) | Standard Error (%) |
| <b>Mymensingh Division</b> | <b>11976372</b>          | <b>High (Q4)</b>      | <b>22.6</b>   | <b>0.9</b>         | -                  | -             | -                  |
| <b>Jamalpur District</b>   | <b>2475535</b>           | <b>Moderate (Q3)</b>  | <b>18.8</b>   | <b>1.5</b>         | <b>Very high</b>   | <b>66.1</b>   | <b>2.6</b>         |
| Bakshiganj                 | 238190                   | Very High (Q5)        | 29.5          | 6.0                | Very High (Q5)     | 64.6          | 5.0                |
| Dewanganj                  | 286519                   | High (Q4)             | 24.8          | 3.7                | Very High (Q5)     | 80.7          | 5.0                |
| Islampur                   | 317720                   | Low (Q2)              | 11.4          | 3.5                | Very High (Q5)     | 70.0          | 8.6                |
| Jamalpur Sadar             | 656989                   | Low (Q2)              | 9.8           | 2.7                | Very High (Q5)     | 65.6          | 4.0                |
| Madarganj                  | 284981                   | Low (Q2)              | 12.4          | 3.6                | Very High (Q5)     | 66.0          | 4.7                |
| Melandaha                  | 350023                   | High (Q4)             | 26.8          | 4.1                | Very High (Q5)     | 62.7          | 5.2                |
| Sarishabari                | 341113                   | High (Q4)             | 27.9          | 3.2                | Very High (Q5)     | 56.1          | 5.3                |
| <b>Mymensingh District</b> | <b>5737380</b>           | <b>Moderate (Q3)</b>  | <b>20.4</b>   | <b>1.0</b>         | <b>Very high</b>   | <b>70.9</b>   | <b>1.5</b>         |
| Bhaluka                    | 556443                   | Very Low (Q1)         | 9.0           | 1.6                | High (Q4)          | 49.3          | 3.6                |
| Dhobaura                   | 214858                   | High (Q4)             | 28.1          | 4.5                | Very High (Q5)     | 80.3          | 7.3                |
| Fulbaria                   | 488207                   | Low (Q2)              | 9.9           | 4.0                | Very High (Q5)     | 79.8          | 3.2                |
| Gafargaon                  | 455687                   | Low (Q2)              | 10.0          | 2.5                | Very High (Q5)     | 63.8          | 4.3                |
| Gouripur                   | 350958                   | Very High (Q5)        | 52.9          | 3.7                | Very High (Q5)     | 76.5          | 3.7                |
| Haluaghat                  | 312807                   | Very High (Q5)        | 59.6          | 3.5                | Very High (Q5)     | 77.9          | 5.6                |
| Ishwarganj                 | 398271                   | High (Q4)             | 27.5          | 3.6                | Very High (Q5)     | 86.7          | 4.1                |
| Mymensingh Sadar           | 935481                   | Very Low (Q1)         | 5.5           | 2.3                | Very High (Q5)     | 64.4          | 2.9                |
| Muktagachha                | 446165                   | Very Low (Q1)         | 7.2           | 2.8                | Very High (Q5)     | 72.7          | 3.6                |
| Nandail                    | 416623                   | High (Q4)             | 25.4          | 2.8                | Very High (Q5)     | 73.8          | 3.8                |
| Fulpur                     | 345021                   | Very High (Q5)        | 32.8          | 4.1                | Very High (Q5)     | 76.4          | 6.8                |
| Tarakanda                  | 335104                   | High (Q4)             | 23.3          | 5.0                | Very High (Q5)     | 73.1          | 3.4                |
| Trishal                    | 481755                   | High (Q4)             | 22.2          | 3.1                | Very High (Q5)     | 63.2          | 3.6                |
| <b>Netrakona District</b>  | <b>2281021</b>           | <b>Very High (Q5)</b> | <b>33.9</b>   | <b>3.0</b>         | <b>Very high</b>   | <b>59.7</b>   | <b>2.8</b>         |
| Atpara                     | 142125                   | Very High (Q5)        | 34.0          | 12.5               | Very High (Q5)     | 62.2          | 6.3                |
| Barhatta                   | 180071                   | Very High (Q5)        | 36.6          | 17.2               | Very High (Q5)     | 55.4          | 5.2                |
| Durgapur                   | 237111                   | Very High (Q5)        | 47.6          | 4.7                | Very High (Q5)     | 61.8          | 11.3               |
| Khaliajuri                 | 95533                    | Very High (Q5)        | 47.2          | 19.2               | Very High (Q5)     | 68.9          | 8.6                |
| Kalmakanda                 | 268277                   | Very High (Q5)        | 32.6          | 3.2                | Very High (Q5)     | 59.7          | 6.1                |
| Kendua                     | 312852                   | High (Q4)             | 23.5          | 5.8                | Very High (Q5)     | 58.6          | 5.5                |
| Madan                      | 147946                   | Very High (Q5)        | 38.8          | 15.9               | Very High (Q5)     | 62.2          | 5.5                |
| Mohanganj                  | 164212                   | Very High (Q5)        | 34.2          | 4.2                | Very High (Q5)     | 62.6          | 10.3               |
| Netrakona Sadar            | 407278                   | Very High (Q5)        | 45.8          | 3.9                | Very High (Q5)     | 56.7          | 4.3                |
| Purbadhala                 | 325616                   | Low (Q2)              | 12.4          | 4.4                | Very High (Q5)     | 58.6          | 11.1               |
| <b>Sherpur District</b>    | <b>1482436</b>           | <b>Moderate (Q3)</b>  | <b>19.9</b>   | <b>1.9</b>         | <b>Very high</b>   | <b>69.9</b>   | <b>2.5</b>         |
| Jhenaigati                 | 175800                   | Low (Q2)              | 10.8          | 4.1                | Very High (Q5)     | 68.1          | 10.2               |
| Nakla                      | 206798                   | High (Q4)             | 28.0          | 9.7                | Very High (Q5)     | 70.9          | 4.7                |
| Nalitabari                 | 268656                   | High (Q4)             | 27.5          | 4.9                | Very High (Q5)     | 64.0          | 4.6                |

ANNEX 1: DIVISION, DISTRICT AND UPAZILA LEVEL POVERTY RATES OF 2022 AND 2010 (Continued)

| Name                      | Population <sup>20</sup> | 2022                 |               |                    | 2010 <sup>21</sup> |               |                    |
|---------------------------|--------------------------|----------------------|---------------|--------------------|--------------------|---------------|--------------------|
|                           |                          | Quintile             | HCR Upper (%) | Standard Error (%) | Quintile           | HCR Upper (%) | Standard Error (%) |
| Sherpur Sadar             | 553264                   | Moderate (Q3)        | 18.3          | 2.4                | Very High (Q5)     | 75.1          | 3.2                |
| Sreebardi                 | 277918                   | Moderate (Q3)        | 15.6          | 4.2                | Very High (Q5)     | 66.1          | 4.6                |
| <b>Rajshahi Division</b>  | <b>19925109</b>          | <b>Moderate (Q3)</b> | <b>16.3</b>   | <b>1.0</b>         |                    | <b>36.8</b>   | <b>2.2</b>         |
| <b>Bogura District</b>    | <b>3651917</b>           | <b>Low (Q2)</b>      | <b>12.0</b>   | <b>1.5</b>         | <b>Low</b>         | <b>30.9</b>   | <b>2.0</b>         |
| Adamdighi                 | 203653                   | Very Low (Q1)        | 9.4           | 4.8                | Low (Q2)           | 24.3          | 4.2                |
| Bogura Sadar              | 619584                   | Very Low (Q1)        | 6.9           | 1.1                | Low (Q2)           | 22.0          | 2.9                |
| Dhunat                    | 305280                   | Low (Q2)             | 11.1          | 3.7                | High (Q4)          | 42.7          | 5.6                |
| Dupchachia                | 191034                   | Very Low (Q1)        | 7.0           | 5.5                | Low (Q2)           | 25.9          | 5.7                |
| Gabtali                   | 340500                   | Low (Q2)             | 14.5          | 3.5                | Low (Q2)           | 30.2          | 4.4                |
| Kahaloo                   | 232354                   | Low (Q2)             | 10.2          | 2.4                | Low (Q2)           | 24.4          | 4.7                |
| Nandigram                 | 197429                   | Low (Q2)             | 12.2          | 6.9                | Moderate (Q3)      | 32.6          | 5.5                |
| Sariakandi                | 274313                   | Very High (Q5)       | 30.1          | 4.2                | High (Q4)          | 46.0          | 4.5                |
| Shajahanpur               | 321601                   | Very Low (Q1)        | 4.5           | 2.0                | Low (Q2)           | 24.2          | 5.6                |
| Sherpur                   | 377535                   | Moderate (Q3)        | 17.0          | 4.3                | Moderate (Q3)      | 33.6          | 7.1                |
| Shibganj                  | 397401                   | Low (Q2)             | 10.0          | 2.9                | Moderate (Q3)      | 33.0          | 4.4                |
| Sonatala                  | 191233                   | Moderate (Q3)        | 15.6          | 9.7                | Moderate (Q3)      | 34.9          | 4.1                |
| <b>Joypurhat District</b> | <b>938110</b>            | <b>Moderate (Q3)</b> | <b>15.1</b>   | <b>2.6</b>         | <b>Moderate</b>    | <b>34.8</b>   | <b>2.3</b>         |
| Akkelpur                  | 142453                   | Low (Q2)             | 11.0          | 3.3                | Moderate (Q3)      | 34.5          | 5.8                |
| Joypurhat Sadar           | 305288                   | Moderate (Q3)        | 15.7          | 5.6                | Low (Q2)           | 31.6          | 3.7                |
| Kalai                     | 144692                   | High (Q4)            | 22.3          | 2.8                | Moderate (Q3)      | 41.0          | 3.5                |
| Khetlal                   | 110148                   | Moderate (Q3)        | 15.3          | 7.5                | Moderate (Q3)      | 35.4          | 7.4                |
| Panchbibi                 | 235529                   | Low (Q2)             | 12.5          | 3.5                | Moderate (Q3)      | 34.9          | 4.6                |
| <b>Naogaon District</b>   | <b>2731917</b>           | <b>Moderate (Q3)</b> | <b>16.2</b>   | <b>2.1</b>         | <b>Low</b>         | <b>22.2</b>   | <b>2.3</b>         |
| Atrai                     | 199340                   | Moderate (Q3)        | 16.7          | 9.4                | Low (Q2)           | 25.6          | 4.0                |
| Badalgachhi               | 205188                   | High (Q4)            | 25.7          | 3.6                | Very Low (Q1)      | 20.3          | 5.3                |
| Dhamoirhat                | 191550                   | Moderate (Q3)        | 15.3          | 8.2                | Low (Q2)           | 23.7          | 3.9                |
| Manda                     | 377730                   | Low (Q2)             | 12.2          | 2.5                | Low (Q2)           | 21.7          | 3.5                |
| Mahadebpur                | 303069                   | Moderate (Q3)        | 16.5          | 9.2                | Low (Q2)           | 23.2          | 4.4                |
| Naogaon Sadar             | 431886                   | Very Low (Q1)        | 7.3           | 2.7                | Low (Q2)           | 22.2          | 4.0                |
| Niamatpur                 | 267524                   | Low (Q2)             | 12.7          | 4.1                | Low (Q2)           | 23.4          | 2.8                |
| Patnitala                 | 246650                   | Moderate (Q3)        | 17.9          | 3.5                | Low (Q2)           | 21.5          | 6.6                |
| Porsha                    | 141195                   | High (Q4)            | 23.2          | 8.9                | Very Low (Q1)      | 20.0          | 6.7                |
| Raninagar                 | 188634                   | Moderate (Q3)        | 16.6          | 8.5                | Very Low (Q1)      | 16.7          | 4.1                |
| Sapahar                   | 179151                   | Very High (Q5)       | 32.2          | 4.7                | Low (Q2)           | 25.3          | 6.1                |
| <b>Natore District</b>    | <b>1828058</b>           | <b>High (Q4)</b>     | <b>24.4</b>   | <b>4.0</b>         | <b>High</b>        | <b>45.2</b>   | <b>2.7</b>         |
| Bagatipara                | 137075                   | High (Q4)            | 21.6          | 10.1               | High (Q4)          | 49.6          | 4.6                |
| Baraigram                 | 305580                   | High (Q4)            | 23.7          | 4.6                | Moderate (Q3)      | 39.9          | 4.7                |
| Gurudaspur                | 229210                   | Very High (Q5)       | 40.2          | 5.8                | Very High (Q5)     | 50.5          | 6.6                |
| Lalpur                    | 303782                   | High (Q4)            | 23.1          | 11.4               | High (Q4)          | 47.1          | 5.1                |
| Naldanga                  | 134133                   | Moderate (Q3)        | 16.5          | 4.8                | High (Q4)          | 49.3          | 4.6                |

ANNEX 1: DIVISION, DISTRICT AND UPAZILA LEVEL POVERTY RATES OF 2022 AND 2010 (Continued)

| Name                            | Population <sup>20</sup> | 2022                  |               |                    | 2010 <sup>21</sup> |               |                    |
|---------------------------------|--------------------------|-----------------------|---------------|--------------------|--------------------|---------------|--------------------|
|                                 |                          | Quintile              | HCR Upper (%) | Standard Error (%) | Quintile           | HCR Upper (%) | Standard Error (%) |
| Natore Sadar                    | 343908                   | High (Q4)             | 22.2          | 11.4               | Moderate (Q3)      | 40.5          | 4.2                |
| Singra                          | 374370                   | High (Q4)             | 22.4          | 4.0                | High (Q4)          | 45.6          | 6.0                |
| <b>Chapainawabganj District</b> | <b>1816475</b>           | <b>Very High (Q5)</b> | <b>34.7</b>   | <b>3.7</b>         | <b>Low</b>         | <b>28.2</b>   | <b>3.1</b>         |
| Bholahat                        | 112715                   | Very High (Q5)        | 31.9          | 5.5                | Low (Q2)           | 26.3          | 7.2                |
| Gomastapur                      | 300418                   | Very High (Q5)        | 36.6          | 14.2               | Moderate (Q3)      | 32.1          | 4.8                |
| Nachole                         | 165910                   | Moderate (Q3)         | 19.9          | 6.0                | Low (Q2)           | 29.8          | 7.5                |
| Chapainawabganj Sadar           | 573178                   | High (Q4)             | 27.2          | 3.3                | Low (Q2)           | 31.9          | 4.0                |
| Shibganj                        | 664254                   | Very High (Q5)        | 44.6          | 4.9                | Moderate (Q3)      | 33.0          | 4.4                |
| <b>Pabna District</b>           | <b>2852250</b>           | <b>Low (Q2)</b>       | <b>12.1</b>   | <b>1.9</b>         | <b>Moderate</b>    | <b>39.1</b>   | <b>2.2</b>         |
| Atgharia                        | 176663                   | Low (Q2)              | 11.6          | 6.3                | High (Q4)          | 44.3          | 4.6                |
| Bera                            | 298608                   | Moderate (Q3)         | 17.7          | 3.4                | High (Q4)          | 47.4          | 6.2                |
| Bhangura                        | 134879                   | Low (Q2)              | 13.9          | 7.3                | High (Q4)          | 41.2          | 6.9                |
| Chatmohar                       | 329279                   | Moderate (Q3)         | 15.3          | 3.2                | Moderate (Q3)      | 36.6          | 5.5                |
| Faridpur                        | 139141                   | Low (Q2)              | 12.3          | 4.0                | Moderate (Q3)      | 37.9          | 7.1                |
| Ishwardi                        | 378350                   | Low (Q2)              | 11.9          | 4.7                | Low (Q2)           | 31.7          | 4.0                |
| Pabna Sadar                     | 685156                   | Very Low (Q1)         | 7.2           | 1.9                | Moderate (Q3)      | 40.8          | 3.8                |
| Santhia                         | 407301                   | Low (Q2)              | 12.3          | 3.5                | Low (Q2)           | 30.3          | 4.7                |
| Sujanagar                       | 302873                   | Low (Q2)              | 13.6          | 7.4                | High (Q4)          | 48.0          | 5.9                |
| <b>Rajshahi District</b>        | <b>2816532</b>           | <b>Moderate (Q3)</b>  | <b>15.5</b>   | <b>1.6</b>         | <b>Moderate</b>    | <b>35.0</b>   | <b>2.2</b>         |
| Bagha                           | 194242                   | Low (Q2)              | 12.7          | 3.9                | Moderate (Q3)      | 33.9          | 4.0                |
| Bagmara                         | 371140                   | Low (Q2)              | 13.5          | 3.4                | Low (Q2)           | 30.0          | 4.8                |
| Boalia                          | 177894                   | Very Low (Q1)         | 5.3           | 1.2                | Moderate (Q3)      | 32.7          | 4.6                |
| Chandrima                       | 58144                    | Low (Q2)              | 10.8          | 5.8                | Moderate (Q3)      | 35.5          | 5.5                |
| Charghat                        | 222754                   | Low (Q2)              | 13.1          | 7.2                | Moderate (Q3)      | 35.5          | 6.6                |
| Durgapur                        | 196570                   | Moderate (Q3)         | 15.4          | 2.9                | Moderate (Q3)      | 40.1          | 4.2                |
| Godagari                        | 372994                   | High (Q4)             | 23.9          | 3.8                | Moderate (Q3)      | 38.0          | 3.6                |
| Kashiadanga                     | 42410                    | Very Low (Q1)         | 9.7           | 2.4                | Moderate (Q3)      | 34.4          | 6.3                |
| Matihar                         | 59116                    | Moderate (Q3)         | 15.7          | 2.7                | Moderate (Q3)      | 37.0          | 4.7                |
| Mohanpur                        | 185120                   | Low (Q2)              | 14.4          | 8.9                | Moderate (Q3)      | 35.0          | 4.4                |
| Paba                            | 361328                   | Moderate (Q3)         | 19.3          | 3.7                | Moderate (Q3)      | 37.5          | 4.3                |
| Puthia                          | 222489                   | Low (Q2)              | 13.5          | 7.6                | Low (Q2)           | 31.4          | 6.3                |
| Rajpara                         | 106376                   | Low (Q2)              | 12.7          | 1.8                | Low (Q2)           | 24.0          | 4.6                |
| Shah Makhdum                    | 34954                    | Very Low (Q1)         | 9.5           | 5.2                | High (Q4)          | 41.2          | 4.7                |
| Tanore                          | 211001                   | Moderate (Q3)         | 19.1          | 4.0                | Moderate (Q3)      | 40.7          | 4.1                |
| <b>Sirajganj District</b>       | <b>3289850</b>           | <b>Low (Q2)</b>       | <b>10.9</b>   | <b>1.1</b>         | <b>Very high</b>   | <b>52.7</b>   | <b>3.4</b>         |
| Belkuchi                        | 390526                   | High (Q4)             | 23.9          | 2.4                | Very High (Q5)     | 51.2          | 5.4                |
| Chouhali                        | 136727                   | Low (Q2)              | 14.5          | 6.4                | Very High (Q5)     | 61.7          | 8.9                |
| Kamarkhanda                     | 152314                   | Very Low (Q1)         | 8.3           | 5.0                | High (Q4)          | 48.7          | 8.4                |

ANNEX 1: DIVISION, DISTRICT AND UPAZILA LEVEL POVERTY RATES OF 2022 AND 2010 (Continued)

| Name                      | Population <sup>20</sup> | 2022                  |               |                    | 2010 <sup>21</sup> |               |                    |
|---------------------------|--------------------------|-----------------------|---------------|--------------------|--------------------|---------------|--------------------|
|                           |                          | Quintile              | HCR Upper (%) | Standard Error (%) | Quintile           | HCR Upper (%) | Standard Error (%) |
| Kazipur                   | 278279                   | Moderate (Q3)         | 18.3          | 2.3                | Very High (Q5)     | 56.4          | 4.1                |
| Rayganj                   | 340876                   | Very Low (Q1)         | 3.6           | 2.8                | Very High (Q5)     | 56.5          | 8.4                |
| Shahjadpur                | 592610                   | Moderate (Q3)         | 15.7          | 2.0                | Very High (Q5)     | 54.2          | 5.2                |
| Sirajganj Sadar           | 608583                   | Very Low (Q1)         | 3.8           | 2.2                | High (Q4)          | 48.1          | 5.0                |
| Tarash                    | 209096                   | Very Low (Q1)         | 3.7           | 2.1                | Very High (Q5)     | 59.0          | 6.1                |
| Ullapara                  | 580839                   | Very Low (Q1)         | 7.9           | 2.1                | High (Q4)          | 48.7          | 6.0                |
| <b>Rangpur Division</b>   | <b>17298631</b>          | <b>High (Q4)</b>      | <b>25.0</b>   | <b>1.3</b>         |                    | <b>40.6</b>   | <b>3.1</b>         |
| <b>Dinajpur District</b>  | <b>3236651</b>           | <b>High (Q4)</b>      | <b>25.7</b>   | <b>2.4</b>         | <b>Moderate</b>    | <b>37.3</b>   | <b>3.8</b>         |
| Birampur                  | 180549                   | Very High (Q5)        | 36.5          | 3.9                | High (Q4)          | 43.5          | 5.0                |
| Birganj                   | 350512                   | High (Q4)             | 23.2          | 4.2                | High (Q4)          | 42.5          | 11.5               |
| Birol                     | 279378                   | High (Q4)             | 27.9          | 10.9               | Very High (Q5)     | 53.1          | 6.6                |
| Bochaganj                 | 168980                   | Very High (Q5)        | 44.6          | 4.6                | High (Q4)          | 41.8          | 9.4                |
| Chirirbandar              | 318152                   | High (Q4)             | 21.2          | 5.2                | Very Low (Q1)      | 18.6          | 4.0                |
| Fulbari                   | 190033                   | High (Q4)             | 27.0          | 8.1                | Moderate (Q3)      | 36.4          | 9.7                |
| Ghoraghat                 | 128040                   | High (Q4)             | 28.0          | 9.2                | Moderate (Q3)      | 39.8          | 10.7               |
| Hakimpur                  | 93438                    | Moderate (Q3)         | 19.5          | 3.8                | Moderate (Q3)      | 35.2          | 8.1                |
| Kaharole                  | 171854                   | Very High (Q5)        | 29.5          | 10.6               | Moderate (Q3)      | 37.2          | 6.1                |
| Khansama                  | 195852                   | High (Q4)             | 27.4          | 4.5                | High (Q4)          | 41.5          | 12.3               |
| Dinajpur Sadar            | 516003                   | High (Q4)             | 24.5          | 2.9                | Low (Q2)           | 25.2          | 3.2                |
| Nababganj                 | 250292                   | High (Q4)             | 24.4          | 10.4               | High (Q4)          | 49.4          | 4.6                |
| Parbatipur                | 393568                   | Moderate (Q3)         | 16.7          | 5.0                | Moderate (Q3)      | 38.2          | 13.5               |
| <b>Gaibandha District</b> | <b>2529359</b>           | <b>High (Q4)</b>      | <b>24.6</b>   | <b>2.0</b>         | <b>High</b>        | <b>45.3</b>   | <b>3.1</b>         |
| Fulchhari                 | 165143                   | Moderate (Q3)         | 19.8          | 4.9                | Very High (Q5)     | 52.9          | 13.1               |
| Gaibandha Sadar           | 486698                   | Very High (Q5)        | 31.0          | 4.1                | High (Q4)          | 42.9          | 5.1                |
| Gobindaganj               | 537752                   | Moderate (Q3)         | 17.1          | 3.0                | Moderate (Q3)      | 33.2          | 4.6                |
| Palashbari                | 264626                   | Very High (Q5)        | 41.7          | 3.8                | High (Q4)          | 47.1          | 4.5                |
| Sadullapur                | 310342                   | Moderate (Q3)         | 20.9          | 3.8                | High (Q4)          | 46.2          | 14.4               |
| Saghata                   | 286413                   | High (Q4)             | 23.0          | 7.8                | Very High (Q5)     | 54.9          | 5.6                |
| Sundarganj                | 478385                   | High (Q4)             | 21.9          | 2.9                | Very High (Q5)     | 51.4          | 5.7                |
| <b>Kurigram District</b>  | <b>2305840</b>           | <b>Very High (Q5)</b> | <b>31.3</b>   | <b>2.7</b>         | <b>Very high</b>   | <b>60.5</b>   | <b>4.0</b>         |
| Bhurungamari              | 254439                   | Very High (Q5)        | 37.6          | 4.7                | Moderate (Q3)      | 32.8          | 6.5                |
| Rajibpur                  | 78013                    | Very High (Q5)        | 38.5          | 8.6                | Very High (Q5)     | 68.1          | 14.2               |
| Chilmari                  | 130830                   | Very High (Q5)        | 31.5          | 10.8               | Very High (Q5)     | 61.6          | 13.6               |
| Phulbari                  | 184805                   | High (Q4)             | 24.5          | 5.0                | Very High (Q5)     | 65.8          | 6.8                |
| Kurigram Sadar            | 351118                   | Very High (Q5)        | 39.0          | 4.6                | Very High (Q5)     | 54.6          | 10.3               |
| Nageshwari                | 441325                   | Very High (Q5)        | 35.5          | 4.2                | Very High (Q5)     | 68.2          | 3.2                |
| Rajarhat                  | 201720                   | Very High (Q5)        | 28.6          | 13.6               | Very High (Q5)     | 53.1          | 11.6               |
| Roumari                   | 226313                   | Very High (Q5)        | 30.2          | 5.1                | Very High (Q5)     | 69.6          | 6.0                |
| Ulipur                    | 437277                   | Moderate (Q3)         | 20.5          | 5.2                | Very High (Q5)     | 68.8          | 5.1                |

ANNEX 1: DIVISION, DISTRICT AND UPAZILA LEVEL POVERTY RATES OF 2022 AND 2010 (Continued)

| Name                        | Population <sup>20</sup> | 2022                  |               |                    | 2010 <sup>21</sup> |               |                    |
|-----------------------------|--------------------------|-----------------------|---------------|--------------------|--------------------|---------------|--------------------|
|                             |                          | Quintile              | HCR Upper (%) | Standard Error (%) | Quintile           | HCR Upper (%) | Standard Error (%) |
| <b>Lalmonirhat District</b> | <b>1413455</b>           | <b>Moderate (Q3)</b>  | <b>20.0</b>   | <b>2.7</b>         | <b>Moderate</b>    | <b>36.4</b>   | <b>4.3</b>         |
| Aditmari                    | 248355                   | Moderate (Q3)         | 16.5          | 4.1                | Low (Q2)           | 22.1          | 4.8                |
| Hatibandha                  | 261862                   | Very Low (Q1)         | 9.6           | 3.3                | Moderate (Q3)      | 35.7          | 11.4               |
| Kaliganj                    | 274407                   | High (Q4)             | 26.5          | 3.5                | High (Q4)          | 42.9          | 3.2                |
| Lalmonirhat Sadar           | 368234                   | Moderate (Q3)         | 21.1          | 7.2                | Moderate (Q3)      | 39.4          | 5.2                |
| Patgram                     | 260597                   | High (Q4)             | 25.2          | 3.4                | Moderate (Q3)      | 40.2          | 12.1               |
| <b>Nilphamari District</b>  | <b>2064574</b>           | <b>High (Q4)</b>      | <b>22.2</b>   | <b>2.0</b>         | <b>Moderate</b>    | <b>36.0</b>   | <b>2.8</b>         |
| Dimla                       | 314675                   | Moderate (Q3)         | 20.9          | 3.8                | High (Q4)          | 43.6          | 5.2                |
| Domar                       | 279296                   | Moderate (Q3)         | 18.4          | 4.7                | Moderate (Q3)      | 38.8          | 5.3                |
| Jaldhaka                    | 383369                   | Very High (Q5)        | 29.1          | 4.0                | Moderate (Q3)      | 41.0          | 5.6                |
| Kishoreganj                 | 265897                   | High (Q4)             | 25.9          | 7.7                | Low (Q2)           | 28.7          | 5.5                |
| Nilphamari Sadar            | 515038                   | Moderate (Q3)         | 17.7          | 2.9                | Low (Q2)           | 30.6          | 4.9                |
| Saidpur                     | 306299                   | High (Q4)             | 22.9          | 5.1                | Moderate (Q3)      | 34.6          | 8.1                |
| <b>Panchagarh District</b>  | <b>1160775</b>           | <b>Very High (Q5)</b> | <b>33.2</b>   | <b>4.2</b>         | <b>Low</b>         | <b>29.7</b>   | <b>2.3</b>         |
| Atowari                     | 139976                   | Very High (Q5)        | 29.4          | 12.5               | Low (Q2)           | 21.1          | 4.6                |
| Boda                        | 272127                   | Very High (Q5)        | 48.2          | 5.5                | Moderate (Q3)      | 40.3          | 4.6                |
| Debiganj                    | 263429                   | Very High (Q5)        | 30.3          | 5.3                | Moderate (Q3)      | 39.4          | 5.1                |
| Panchagarh Sadar            | 328199                   | Very High (Q5)        | 31.6          | 10.8               | Low (Q2)           | 20.8          | 5.0                |
| Tentulia                    | 157044                   | Moderate (Q3)         | 19.0          | 4.5                | Very Low (Q1)      | 20.0          | 4.8                |
| <b>Rangpur District</b>     | <b>3082438</b>           | <b>High (Q4)</b>      | <b>21.8</b>   | <b>2.1</b>         | <b>High</b>        | <b>46.7</b>   | <b>2.9</b>         |
| Badarganj                   | 310599                   | High (Q4)             | 21.5          | 4.8                | Very High (Q5)     | 59.0          | 5.4                |
| Gangachara                  | 283675                   | Moderate (Q3)         | 15.3          | 4.7                | Very High (Q5)     | 73.2          | 5.5                |
| Hajirhat                    | 76167                    | Very High (Q5)        | 38.2          | 7.3                | High (Q4)          | 47.9          | 14.6               |
| Haragachh                   | 61660                    | Very High (Q5)        | 42.0          | 8.0                | High (Q4)          | 48.4          | 14.6               |
| Kaunia                      | 236988                   | High (Q4)             | 24.7          | 6.6                | High (Q4)          | 50.3          | 12.0               |
| Kotwali                     | 310859                   | High (Q4)             | 22.4          | 4.5                | Very Low (Q1)      | 19.8          | 2.9                |
| Rangpur Sadar               | 176621                   | Moderate (Q3)         | 20.5          | 3.9                | Very High (Q5)     | 63.1          | 6.9                |
| Mahiganj                    | 54689                    | Very High (Q5)        | 29.9          | 7.3                | Moderate (Q3)      | 40.7          | 6.7                |
| Mithapukur                  | 533435                   | Moderate (Q3)         | 20.3          | 4.0                | Moderate (Q3)      | 38.8          | 6.4                |
| Parshuram                   | 68773                    | Very High (Q5)        | 30.6          | 7.9                | Moderate (Q3)      | 38.6          | 10.3               |
| Pirgachha                   | 323670                   | Low (Q2)              | 14.1          | 3.6                | High (Q4)          | 45.2          | 6.4                |
| Pirganj                     | 407669                   | High (Q4)             | 22.3          | 4.4                | Moderate (Q3)      | 37.2          | 5.4                |
| Tajhat                      | 79421                    | Very High (Q5)        | 31.6          | 7.5                | High (Q4)          | 41.1          | 8.6                |
| Taraganj                    | 158212                   | High (Q4)             | 22.5          | 7.7                | Very High (Q5)     | 58.9          | 5.7                |
| <b>Thakurgaon District</b>  | <b>1505539</b>           | <b>High (Q4)</b>      | <b>23.3</b>   | <b>2.6</b>         | <b>Low</b>         | <b>25.6</b>   | <b>3.2</b>         |
| Baliadangi                  | 205904                   | Very High (Q5)        | 30.9          | 5.2                | Low (Q2)           | 31.0          | 12.7               |
| Haripur                     | 158103                   | High (Q4)             | 23.5          | 9.9                | Low (Q2)           | 29.0          | 4.9                |
| Pirganj                     | 260952                   | High (Q4)             | 24.0          | 3.6                | Low (Q2)           | 28.8          | 4.3                |

ANNEX 1: DIVISION, DISTRICT AND UPAZILA LEVEL POVERTY RATES OF 2022 AND 2010 (Continued)

| Name                        | Population <sup>20</sup> | 2022                 |               |                    | 2010 <sup>21</sup> |               |                    |
|-----------------------------|--------------------------|----------------------|---------------|--------------------|--------------------|---------------|--------------------|
|                             |                          | Quintile             | HCR Upper (%) | Standard Error (%) | Quintile           | HCR Upper (%) | Standard Error (%) |
| Ranishankail                | 239193                   | Moderate (Q3)        | 17.0          | 5.1                | Low (Q2)           | 23.0          | 4.9                |
| Thakurgaon Sadar            | 641387                   | High (Q4)            | 22.8          | 4.1                | Low (Q2)           | 22.5          | 4.2                |
| <b>Sylhet Division</b>      | <b>10836513</b>          | <b>Moderate (Q3)</b> | <b>18.5</b>   | <b>0.9</b>         |                    | <b>36.2</b>   | <b>3.3</b>         |
| <b>Habiganj District</b>    | <b>2321098</b>           | <b>Low (Q2)</b>      | <b>10.9</b>   | <b>0.9</b>         | <b>Moderate</b>    | <b>34.6</b>   | <b>2.4</b>         |
| Ajmiriganj                  | 125661                   | Low (Q2)             | 12.4          | 6.4                | High (Q4)          | 47.1          | 5.4                |
| Bahubal                     | 216474                   | Moderate (Q3)        | 20.3          | 1.7                | Moderate (Q3)      | 38.6          | 8.5                |
| Baniachong                  | 353339                   | Low (Q2)             | 11.7          | 2.7                | Low (Q2)           | 32.0          | 6.3                |
| Chunarughat                 | 338982                   | Low (Q2)             | 11.1          | 1.6                | Moderate (Q3)      | 39.1          | 3.7                |
| Habiganj Sadar              | 296592                   | Very Low (Q1)        | 7.4           | 1.3                | Low (Q2)           | 29.1          | 5.6                |
| Lakhai                      | 157465                   | Low (Q2)             | 10.2          | 2.3                | High (Q4)          | 41.5          | 9.1                |
| Madhabpur                   | 376071                   | Very Low (Q1)        | 9.1           | 1.9                | Low (Q2)           | 25.5          | 3.6                |
| Nabiganj                    | 363472                   | Low (Q2)             | 10.0          | 1.7                | Moderate (Q3)      | 37.2          | 7.3                |
| Shayestaganj                | 93042                    | Very Low (Q1)        | 6.2           | 3.3                | Low (Q2)           | 30.5          | 3.6                |
| <b>Moulvibazar District</b> | <b>2088869</b>           | <b>Moderate (Q3)</b> | <b>20.4</b>   | <b>1.4</b>         | <b>Moderate</b>    | <b>36.8</b>   | <b>1.8</b>         |
| Baralekha                   | 278828                   | Low (Q2)             | 12.1          | 2.7                | Low (Q2)           | 27.1          | 3.0                |
| Juri                        | 161181                   | High (Q4)            | 25.8          | 6.7                | High (Q4)          | 41.8          | 7.1                |
| Kamalganj                   | 286682                   | High (Q4)            | 22.0          | 2.1                | Moderate (Q3)      | 39.0          | 3.6                |
| Kulaura                     | 394156                   | High (Q4)            | 26.5          | 2.5                | Moderate (Q3)      | 40.1          | 3.4                |
| Moulvibazar Sadar           | 365077                   | Low (Q2)             | 11.0          | 2.4                | Low (Q2)           | 26.0          | 4.1                |
| Rajnagar                    | 248235                   | Low (Q2)             | 12.8          | 3.1                | Moderate (Q3)      | 40.3          | 5.3                |
| Sreemangal                  | 354710                   | Very High (Q5)       | 31.3          | 2.4                | High (Q4)          | 45.4          | 4.7                |
| <b>Sunamganj District</b>   | <b>2675216</b>           | <b>High (Q4)</b>     | <b>27.2</b>   | <b>1.7</b>         | <b>High (Q4)</b>   | <b>42.2</b>   | <b>2.2</b>         |
| Bishwambharpur              | 189574                   | Very High (Q5)       | 46.7          | 5.2                | High (Q4)          | 43.5          | 5.1                |
| Chhatak                     | 442203                   | Very High (Q5)       | 29.3          | 2.4                | High (Q4)          | 42.2          | 4.0                |
| Derai                       | 252129                   | Moderate (Q3)        | 19.1          | 4.4                | Very High (Q5)     | 61.5          | 4.4                |
| Dharmapasha                 | 132247                   | High (Q4)            | 25.7          | 10.7               | High (Q4)          | 44.3          | 8.5                |
| Dowarabazar                 | 258969                   | High (Q4)            | 22.9          | 3.4                | High (Q4)          | 45.6          | 7.4                |
| Jagannathpur                | 261626                   | Very High (Q5)       | 28.9          | 4.0                | Moderate (Q3)      | 37.9          | 5.9                |
| Jamalganj                   | 185134                   | Very High (Q5)       | 30.2          | 4.4                | Moderate (Q3)      | 39.6          | 4.3                |
| Madhyanagar                 | 95248                    | High (Q4)            | 25.5          | 9.5                | High (Q4)          | 42.4          | 6.2                |
| Shalla                      | 116907                   | Very High (Q5)       | 34.8          | 4.9                | High (Q4)          | 41.4          | 5.8                |
| Shantiganj                  | 203664                   | High (Q4)            | 28.2          | 11.7               | High (Q4)          | 41.2          | 8.1                |
| Sunamganj Sadar             | 313964                   | Moderate (Q3)        | 20.0          | 3.9                | Low (Q2)           | 29.3          | 4.8                |
| Tahirpur                    | 223551                   | High (Q4)            | 22.7          | 4.6                | Moderate (Q3)      | 39.2          | 5.1                |
| <b>Sylhet District</b>      | <b>3751330</b>           | <b>Moderate (Q3)</b> | <b>16.0</b>   | <b>1.0</b>         | <b>Low</b>         | <b>30.6</b>   | <b>1.7</b>         |
| Airport                     | 87535                    | Very Low (Q1)        | 9.2           | 2.7                | Very Low (Q1)      | 15.3          | 3.8                |
| Balaganj                    | 122741                   | Moderate (Q3)        | 17.1          | 7.8                | Low (Q2)           | 25.9          | 4.3                |
| Beanibazar                  | 254846                   | Moderate (Q3)        | 20.0          | 2.7                | Low (Q2)           | 23.0          | 3.4                |
| Bishwanath                  | 234310                   | Moderate (Q3)        | 19.8          | 3.5                | Low (Q2)           | 25.6          | 5.5                |

ANNEX 1: DIVISION, DISTRICT AND UPAZILA LEVEL POVERTY RATES OF 2022 AND 2010 (Continued)

| Name          | Population <sup>20</sup> | 2022          |               |                    | 2010 <sup>21</sup> |               |                    |
|---------------|--------------------------|---------------|---------------|--------------------|--------------------|---------------|--------------------|
|               |                          | Quintile      | HCR Upper (%) | Standard Error (%) | Quintile           | HCR Upper (%) | Standard Error (%) |
| Companiganj   | 191183                   | Moderate (Q3) | 19.5          | 3.5                | Very Low (Q1)      | 42.9          | 7.6                |
| Dakshin Surma | 294637                   | Very Low (Q1) | 9.1           | 2.4                | Low (Q2)           | 22.0          | 4.9                |
| Fenchuganj    | 112362                   | Moderate (Q3) | 16.9          | 3.2                | Low (Q2)           | 27.0          | 6.2                |
| Golapganj     | 327314                   | High (Q4)     | 22.2          | 2.3                | Low (Q2)           | 29.3          | 4.3                |
| Gowainghat    | 353502                   | Moderate (Q3) | 19.1          | 3.6                | High (Q4)          | 45.0          | 5.5                |
| Jalalabad     | 30081                    | Very Low (Q1) | 7.9           | 2.6                | Very Low (Q1)      | 17.2          | 3.7                |
| Jaintapur     | 197738                   | Low (Q2)      | 12.3          | 4.0                | Low (Q2)           | 28.8          | 6.0                |
| Kotwali       | 238680                   | Very Low (Q1) | 9.3           | 1.6                | Very Low (Q1)      | 16.2          | 2.5                |
| Moglabazar    | 19921                    | Moderate (Q3) | 15.9          | 6.8                | Very Low (Q1)      | 18.1          | 4.0                |
| Kanaighat     | 315777                   | Low (Q2)      | 9.9           | 2.9                | High (Q4)          | 46.4          | 5.0                |
| Osmaninagar   | 212394                   | Moderate (Q3) | 20.2          | 3.1                | Low (Q2)           | 27.2          | 7.5                |
| Sylhet Sadar  | 418670                   | Moderate (Q3) | 20.1          | 2.0                | Low (Q2)           | 25.5          | 4.1                |
| Shahparan     | 76022                    | Very Low (Q1) | 8.3           | 1.9                | Very Low (Q1)      | 11.5          | 2.5                |
| Zakiganj      | 263617                   | Low (Q2)      | 13.5          | 3.5                | Very High (Q5)     | 53.0          | 5.4                |

**ANNEX 2****DIVISION, DISTRICT AND UPAZILA LEVEL EXTREME POVERTY OF 2022**

[Low: HCR &lt; 2.15%, Moderate: 2.16% &lt; HCR &lt; 5.52%, High: HCR &gt; 5.53%]

| Division, District, and Upazila | Legend <sup>22</sup> |
|---------------------------------|----------------------|
| <b>Barishal Division</b>        | <b>High</b>          |
| <b>Barguna District</b>         | <b>High</b>          |
| Amtali                          | Moderate             |
| Bamna                           | High                 |
| Barguna Sadar                   | Moderate             |
| Betagi                          | High                 |
| Patharghata                     | High                 |
| Taltali                         | High                 |
| <b>Barishal District</b>        | <b>High</b>          |
| Agailjhara                      | High                 |
| Babuganj                        | Moderate             |
| Bakerganj                       | High                 |
| Banaripara                      | High                 |
| Barishal Sadar (Kotwali)        | Moderate             |
| Gaurnadi                        | High                 |
| Hijla                           | High                 |
| Mehendiganj                     | High                 |
| Muladi                          | High                 |
| Ujirpur                         | High                 |
| <b>Bhola District</b>           | <b>High</b>          |
| Bhola Sadar                     | High                 |
| Borhanuddin                     | High                 |
| Charfasson                      | High                 |
| Daulatkhan                      | High                 |
| Lalmohan                        | High                 |
| Monpura                         | High                 |
| Tazumuddin                      | High                 |
| <b>Jhalokati District</b>       | <b>High</b>          |
| Jhalokathi Sadar                | High                 |
| Kanthalia                       | High                 |
| Nalchhity                       | High                 |
| Rajapur                         | High                 |
| <b>Patuakhali District</b>      | <b>High</b>          |
| Bauphal                         | High                 |

| Division, District, and Upazila | Legend <sup>22</sup> |
|---------------------------------|----------------------|
| Dashmina                        | High                 |
| Dumki                           | High                 |
| Galachipa                       | High                 |
| Kalapara                        | Low                  |
| Mirzaganj                       | Moderate             |
| Patuakhali Sadar                | Moderate             |
| Rangabali                       | Moderate             |
| <b>Pirojpur District</b>        | <b>High</b>          |
| Bhandaria                       | High                 |
| Indurkani                       | High                 |
| Kawkhali                        | High                 |
| Mathbaria                       | High                 |
| Nazirpur                        | High                 |
| Nesarabad (Swarupkathi)         | High                 |
| Pirojpur Sadar                  | High                 |
| <b>Chattogram Division</b>      | <b>Moderate</b>      |
| <b>Bandarban District</b>       | <b>High</b>          |
| Alikadam                        | High                 |
| Bandarban Sadar                 | Moderate             |
| Lama                            | High                 |
| Naikkhongchhari                 | High                 |
| Rowangchhari                    | High                 |
| Ruma                            | High                 |
| Thanchi                         | High                 |
| <b>Brahmanbaria District</b>    | <b>High</b>          |
| Akhaura                         | Moderate             |
| Ashuganj                        | Moderate             |
| Banchharampur                   | Low                  |
| Bijoynagar                      | Moderate             |
| Brahmanbaria Sadar              | Moderate             |
| Kasba                           | Moderate             |
| Nabinagar                       | High                 |
| Nasirnagar                      | High                 |
| Sarail                          | High                 |

<sup>22</sup> Low: Extreme Poverty <2.15%, Moderate: 2.16%< Extreme Poverty <5.52%, and High: Extreme Poverty>5.53%

| Division, District, and Upazila | Legend <sup>22</sup> |
|---------------------------------|----------------------|
| <b>Chandpur District</b>        | <b>High</b>          |
| Chandpur Sadar                  | High                 |
| Faridganj                       | Moderate             |
| Haimchar                        | High                 |
| Hajiganj                        | High                 |
| Kachua                          | Low                  |
| Matlab Dakkhin                  | High                 |
| Matlab Uttar                    | High                 |
| Shahrasti                       | High                 |
| <b>Chattogram District</b>      | <b>Moderate</b>      |
| Akbarshah                       | Low                  |
| Anwara                          | High                 |
| Bakalia                         | Low                  |
| Banshkhali                      | High                 |
| Bayejid Bostami                 | Low                  |
| Boalkhali                       | Moderate             |
| Chalk Bazar                     | Low                  |
| Chandanaish                     | Moderate             |
| Chandgaon                       | Low                  |
| Chattogram Port                 | Low                  |
| Double Mooring                  | Low                  |
| EPZ                             | Low                  |
| Fatikchhari                     | Moderate             |
| Halishahar                      | Low                  |
| Hathazari                       | Moderate             |
| Karnaphuli                      | Moderate             |
| Khulshi                         | Low                  |
| Kotwali                         | Low                  |
| Lohagara                        | Moderate             |
| Mirsarai                        | High                 |
| Pahartali                       | Low                  |
| Panchlaish                      | Low                  |
| Patenga                         | Low                  |
| Patiya                          | Moderate             |
| Rangunia                        | Low                  |
| Raozan                          | Moderate             |
| Sadarghat                       | Low                  |
| Sandwip                         | Moderate             |
| Satkania                        | Moderate             |
| Sitakunda                       | Low                  |

| Division, District, and Upazila | Legend <sup>22</sup> |
|---------------------------------|----------------------|
| <b>Cox's Bazar District</b>     | <b>High</b>          |
| Chakaria                        | High                 |
| Coxs Bazar Sadar                | Low                  |
| Eidgaon                         | Low                  |
| Kutubdia                        | High                 |
| Maheshkhali                     | High                 |
| Pekua                           | Moderate             |
| Ramu                            | High                 |
| Teknaf                          | Moderate             |
| Ukhia                           | High                 |
| <b>Cumilla District</b>         | <b>Moderate</b>      |
| Adarsha Sadar                   | Low                  |
| Barura                          | High                 |
| Brahmanpara                     | Moderate             |
| Burichang                       | Moderate             |
| Chandina                        | Moderate             |
| Chauddagram                     | Moderate             |
| Daudkandi                       | Moderate             |
| Debidwar                        | Low                  |
| Homna                           | Moderate             |
| Laksam                          | Moderate             |
| Lalmai                          | Low                  |
| Manoharganj                     | Moderate             |
| Meghna                          | Moderate             |
| Muradnagar                      | Low                  |
| Nangalkot                       | Low                  |
| Sadar Dakkhin                   | Low                  |
| Titas                           | Moderate             |
| <b>Feni District</b>            | <b>Moderate</b>      |
| Chhagalnaiya                    | Low                  |
| Daganbhuiyan                    | Moderate             |
| Feni Sadar                      | Low                  |
| Fulgazi                         | Low                  |
| Parashuram                      | Moderate             |
| Sonagazi                        | Moderate             |
| <b>Khagrachhari District</b>    | <b>Moderate</b>      |
| Dighinala                       | High                 |
| Guimara                         | Moderate             |
| Khagrachhari Sadar              | Moderate             |
| Lakkhichhari                    | High                 |

ANNEX 2: DIVISION, DISTRICT AND UPAZILA LEVEL EXTREME POVERTY OF 2022 (Continued)

| Division, District, and Upazila | Legend <sup>22</sup> |
|---------------------------------|----------------------|
| Mahalchhari                     | Moderate             |
| Manikchhari                     | Moderate             |
| Matiranga                       | High                 |
| Panchhari                       | Moderate             |
| Ramgarh                         | Moderate             |
| <b>Lakshmipur District</b>      | <b>Moderate</b>      |
| Kamalnagar                      | High                 |
| Lakshmipur Sadar                | Low                  |
| Raipur                          | Moderate             |
| Ramganj                         | Moderate             |
| Ramgati                         | High                 |
| <b>Noakhali District</b>        | <b>Low</b>           |
| Begumganj                       | Low                  |
| Chatkhil                        | Low                  |
| Companiganj                     | Moderate             |
| Hatiya                          | Low                  |
| Kabirhat                        | Low                  |
| Noakhali Sadar                  | Low                  |
| Senbag                          | Low                  |
| Sonaimuri                       | Low                  |
| Subarnachar                     | Moderate             |
| <b>Rangamati District</b>       | <b>Moderate</b>      |
| Baghaichhari                    | Moderate             |
| Barkal                          | Moderate             |
| Belaichhari                     | Moderate             |
| Jurachhari                      | Moderate             |
| Kaptai                          | Moderate             |
| Kawkhali                        | Moderate             |
| Langadu                         | Moderate             |
| Naniarchar                      | Moderate             |
| Rajasthali                      | Low                  |
| Rangamati Sadar                 | Low                  |
| <b>Dhaka Division</b>           | <b>Moderate</b>      |
| <b>Dhaka District</b>           | <b>Low</b>           |
| Adabar                          | Low                  |
| Badda                           | Low                  |
| Banani                          | Low                  |
| Bangshal                        | Low                  |
| Bhasantek                       | Moderate             |

| Division, District, and Upazila | Legend <sup>22</sup> |
|---------------------------------|----------------------|
| Bhatara                         | Low                  |
| Bimanbandar                     | Low                  |
| Cantonment                      | Low                  |
| Chawkbazar                      | Low                  |
| Dakkhinkhan                     | Low                  |
| Darussalam                      | Low                  |
| Demra                           | Low                  |
| Dhamrai                         | Low                  |
| Dhanmondi                       | Low                  |
| Dohar                           | Low                  |
| Gendaria                        | Low                  |
| Gulshan                         | Low                  |
| Hatirjheel                      | Low                  |
| Hazaribag                       | Low                  |
| Jatrabari                       | Low                  |
| Kadamtali                       | Low                  |
| Kafrul                          | Low                  |
| Kalabagan                       | Low                  |
| Kamrangichar                    | Low                  |
| Keraniganj                      | Low                  |
| Khilgaon                        | Low                  |
| Khilkhet                        | Low                  |
| Kotwali                         | Low                  |
| Lalbag                          | Low                  |
| Mirpur                          | Low                  |
| Mohammadpur                     | Low                  |
| Motijheel                       | Low                  |
| Mugda                           | Low                  |
| Nawabganj                       | Low                  |
| Newmarket                       | Low                  |
| Pallabi                         | Low                  |
| Paltan                          | Low                  |
| Ramna                           | Low                  |
| Rampura                         | Low                  |
| Rupnagar                        | Low                  |
| Sabujbag                        | Low                  |
| Savar                           | Low                  |
| Shah Ali                        | Low                  |
| Shahbag                         | Low                  |
| Shahjahanpur                    | Low                  |

ANNEX 2: DIVISION, DISTRICT AND UPAZILA LEVEL EXTREME POVERTY OF 2022 (Continued)

| Division, District, and Upazila | Legend <sup>22</sup> |
|---------------------------------|----------------------|
| Shere Bangla Nagar              | Low                  |
| Shyampur                        | Low                  |
| Sutrapur                        | Low                  |
| Tejgaon                         | Low                  |
| Tejgaon Shilpa Elaka            | Low                  |
| Turag                           | Low                  |
| Uttara Purba                    | Low                  |
| Uttarkhan                       | Low                  |
| Uttara Pashchim                 | Low                  |
| Wari                            | Low                  |
| <b>Faridpur District</b>        | <b>Low</b>           |
| Alfadanga                       | Low                  |
| Bhanga                          | Low                  |
| Boalmari                        | Low                  |
| Char Bhadrasan                  | Moderate             |
| Faridpur Sadar                  | Moderate             |
| Madhukhali                      | Low                  |
| Nagarkanda                      | Low                  |
| Sadarpur                        | Low                  |
| Saltha                          | Moderate             |
| <b>Gazipur District</b>         | <b>Moderate</b>      |
| Basan                           | Moderate             |
| Gachha                          | Low                  |
| Gazipur Sadar                   | Low                  |
| Joydebpur                       | Low                  |
| Kaliakair                       | Low                  |
| Kaliganj                        | Low                  |
| Kapasia                         | Low                  |
| Kashimpur                       | Moderate             |
| Konabari                        | High                 |
| Pubail                          | Moderate             |
| Sreepur                         | Low                  |
| Tongi Pashchim                  | High                 |
| Tongi Purba                     | Moderate             |
| <b>Gopalganj District</b>       | <b>Low</b>           |
| Gopalganj Sadar                 | Low                  |
| Kashiani                        | Low                  |
| Kotalipara                      | Moderate             |
| Muksudpur                       | Low                  |
| Tungipara                       | Low                  |

| Division, District, and Upazila | Legend <sup>22</sup> |
|---------------------------------|----------------------|
| <b>Kishoreganj District</b>     | <b>Moderate</b>      |
| Austagram                       | Moderate             |
| Bajitpur                        | Moderate             |
| Bhairab                         | High                 |
| Hossainpur                      | Moderate             |
| Itna                            | Moderate             |
| Karimganj                       | Moderate             |
| Katiadi                         | Moderate             |
| Kishoreganj Sadar               | Moderate             |
| Kuliarchar                      | Moderate             |
| Mithamain                       | High                 |
| Nikli                           | High                 |
| Pakundia                        | Low                  |
| Tarail                          | Moderate             |
| <b>Madaripur District</b>       | <b>High</b>          |
| Dasar                           | High                 |
| Kalkini                         | High                 |
| Madaripur Sadar                 | High                 |
| Rajoir                          | High                 |
| Shibchar                        | High                 |
| <b>Manikganj District</b>       | <b>Low</b>           |
| Daulatpur                       | Moderate             |
| Ghior                           | Low                  |
| Harirampur                      | Low                  |
| Manikganj Sadar                 | Low                  |
| Saturia                         | Low                  |
| Shibalay                        | Low                  |
| Singair                         | Low                  |
| <b>Munshiganj District</b>      | <b>Low</b>           |
| Gazaria                         | Low                  |
| Louhajang                       | Low                  |
| Munshiganj Sadar                | Moderate             |
| Sirajdikhan                     | Low                  |
| Sreenagar                       | Low                  |
| Tongibari                       | Low                  |
| <b>Narayanganj District</b>     | <b>Low</b>           |
| Araihazar                       | Low                  |
| Bandar                          | Moderate             |
| Narayanganj Sadar               | Low                  |
| Rupganj                         | Moderate             |

ANNEX 2: DIVISION, DISTRICT AND UPAZILA LEVEL EXTREME POVERTY OF 2022 (Continued)

| Division, District, and Upazila | Legend <sup>22</sup> |
|---------------------------------|----------------------|
| Sonargaon                       | Low                  |
| <b>Narsingdi District</b>       | <b>High</b>          |
| Belabo                          | High                 |
| Manohardi                       | Moderate             |
| Narsingdi Sadar                 | High                 |
| Palash                          | Moderate             |
| Raipura                         | High                 |
| Shibpur                         | Moderate             |
| <b>Rajbari District</b>         | <b>Low</b>           |
| Baliakandi                      | Low                  |
| Goalanda                        | Low                  |
| Kalukhali                       | Low                  |
| Pangsha                         | Low                  |
| Rajbari Sadar                   | Low                  |
| <b>Shariatpur District</b>      | <b>Moderate</b>      |
| Bhedarganj                      | Moderate             |
| Damudya                         | Low                  |
| Gosairhat                       | Moderate             |
| Naria                           | Low                  |
| Shariatpur Sadar                | Moderate             |
| Zajira                          | Moderate             |
| <b>Tangail District</b>         | <b>Low</b>           |
| Basail                          | Low                  |
| Bhuanpur                        | Low                  |
| Delduar                         | Low                  |
| Dhanbari                        | Low                  |
| Ghatail                         | Low                  |
| Gopalpur                        | Low                  |
| Kalihati                        | Low                  |
| Madhupur                        | Low                  |
| Mirzapur                        | Low                  |
| Nagarpur                        | Low                  |
| Sakhipur                        | Low                  |
| Tangail Sadar                   | Low                  |
| <b>Khulna Division</b>          | <b>Moderate</b>      |
| <b>Bagerhat District</b>        | <b>Moderate</b>      |
| Bagerhat Sadar                  | Low                  |
| Chitalmari                      | Moderate             |
| Fakirhat                        | Low                  |

| Division, District, and Upazila | Legend <sup>22</sup> |
|---------------------------------|----------------------|
| Kachua                          | Moderate             |
| Mollahat                        | Moderate             |
| Mongla                          | Low                  |
| Morelganj                       | Moderate             |
| Rampal                          | Low                  |
| Sharankhola                     | High                 |
| <b>Chuadanga District</b>       | <b>Moderate</b>      |
| Alamdanga                       | Moderate             |
| Chuadanga Sadar                 | Moderate             |
| Damurhuda                       | Moderate             |
| Jibannagar                      | Moderate             |
| <b>Jashore District</b>         | <b>Moderate</b>      |
| Abhaynagar                      | Moderate             |
| Bagharpara                      | Moderate             |
| Chaugachha                      | Low                  |
| Jashore Sadar                   | Low                  |
| Jhikargachha                    | Moderate             |
| Keshabpur                       | Moderate             |
| Manirampur                      | Moderate             |
| Sharsha                         | Low                  |
| <b>Jhenaidah District</b>       | <b>Moderate</b>      |
| Harinakundu                     | Moderate             |
| Jhenaidah Sadar                 | Moderate             |
| Kaliganj                        | Moderate             |
| Kotchandpur                     | Moderate             |
| Maheshpur                       | Moderate             |
| Shailkupa                       | Moderate             |
| <b>Khulna District</b>          | <b>Low</b>           |
| Batiaghata                      | Low                  |
| Dacope                          | Moderate             |
| Daulatpur                       | Low                  |
| Dighalia                        | Low                  |
| Dumuria                         | Low                  |
| Khalishpur                      | Low                  |
| Khan Jahan Ali                  | Low                  |
| Khulna Sadar                    | Low                  |
| Koyra                           | Moderate             |
| Paikgachha                      | Moderate             |
| Phultala                        | Moderate             |
| Rupsa                           | Low                  |

| Division, District, and Upazila | Legend <sup>22</sup> |
|---------------------------------|----------------------|
| Sonadanga                       | Low                  |
| Terokhada                       | Low                  |
| <b>Kushtia District</b>         | <b>Moderate</b>      |
| Bheramara                       | Moderate             |
| Daulatpur                       | Moderate             |
| Khoksa                          | Moderate             |
| Kumarkhali                      | Moderate             |
| Kushtia Sadar                   | Moderate             |
| Mirpur                          | Moderate             |
| <b>Magura District</b>          | <b>Moderate</b>      |
| Magura Sadar                    | Moderate             |
| Mohammadpur                     | Moderate             |
| Shalikha                        | Moderate             |
| Sreepur                         | Moderate             |
| <b>Meherpur District</b>        | <b>Moderate</b>      |
| Gangni                          | Moderate             |
| Meherpur Sadar                  | Moderate             |
| Mujibnagar                      | Moderate             |
| <b>Narail District</b>          | <b>Low</b>           |
| Kalia                           | Moderate             |
| Lohagara                        | Low                  |
| Narail Sadar                    | Low                  |
| <b>Satkhira District</b>        | <b>Moderate</b>      |
| Ashashuni                       | Moderate             |
| Debhata                         | Moderate             |
| Kalaroa                         | Low                  |
| Kaliganj                        | Moderate             |
| Satkhira Sadar                  | Moderate             |
| Shyamnagar                      | Moderate             |
| Tala                            | Moderate             |
| <b>Mymensingh Division</b>      | <b>High</b>          |
| <b>Jamalpur District</b>        | <b>High</b>          |
| Bakshiganj                      | High                 |
| Dewanganj                       | High                 |
| Islampur                        | Moderate             |
| Jamalpur Sadar                  | Moderate             |
| Madarganj                       | Moderate             |
| Melandaha                       | High                 |
| Sarishabari                     | High                 |

| Division, District, and Upazila | Legend <sup>22</sup> |
|---------------------------------|----------------------|
| <b>Mymensingh District</b>      | <b>High</b>          |
| Bhaluka                         | Moderate             |
| Dhobaura                        | High                 |
| Fulbaria                        | Moderate             |
| Fulpur                          | High                 |
| Gafargaon                       | Moderate             |
| Gouripur                        | High                 |
| Haluaghat                       | High                 |
| Ishwarganj                      | High                 |
| Muktagachha                     | Low                  |
| Mymensingh Sadar                | Low                  |
| Nandail                         | High                 |
| Tarakanda                       | High                 |
| Trishal                         | High                 |
| <b>Netrakona District</b>       | <b>High</b>          |
| Atpara                          | High                 |
| Barhatta                        | High                 |
| Durgapur                        | High                 |
| Kalmakanda                      | High                 |
| Kendua                          | High                 |
| Khaliajuri                      | High                 |
| Madan                           | High                 |
| Mohanganj                       | High                 |
| Netrakona Sadar                 | High                 |
| Purbadhala                      | Moderate             |
| <b>Sherpur District</b>         | <b>High</b>          |
| Jhenaigati                      | Moderate             |
| Nakla                           | High                 |
| Nalitabari                      | High                 |
| Sherpur Sadar                   | High                 |
| Sreebardi                       | Moderate             |
| <b>Rajshahi Division</b>        | <b>High</b>          |
| <b>Bogura District</b>          | <b>Moderate</b>      |
| Adamdighi                       | Moderate             |
| Bogura Sadar                    | Low                  |
| Dhunat                          | Moderate             |
| Dupchachia                      | Low                  |
| Gab tali                        | Moderate             |
| Kahaloo                         | Moderate             |

ANNEX 2: DIVISION, DISTRICT AND UPAZILA LEVEL EXTREME POVERTY OF 2022 (Continued)

| Division, District, and Upazila | Legend <sup>22</sup> |
|---------------------------------|----------------------|
| Nandigram                       | Moderate             |
| Sariakandi                      | High                 |
| Shajahanpur                     | Low                  |
| Sherpur                         | High                 |
| Shibganj                        | Moderate             |
| Sonatala                        | Moderate             |
| <b>Chapainawabganj District</b> | <b>High</b>          |
| Bholahat                        | High                 |
| Chapainawabganj Sadar           | High                 |
| Gomastapur                      | High                 |
| Nachole                         | High                 |
| Shibganj                        | High                 |
| <b>Joypurhat District</b>       | <b>Moderate</b>      |
| Akkelpur                        | Moderate             |
| Joypurhat Sadar                 | Moderate             |
| Kalai                           | High                 |
| Khetlal                         | Moderate             |
| Panchbibi                       | Moderate             |
| <b>Naogaon District</b>         | <b>High</b>          |
| Atrai                           | High                 |
| Badalgachhi                     | High                 |
| Dhamoirhat                      | High                 |
| Mahadebpur                      | High                 |
| Manda                           | Moderate             |
| Naogaon Sadar                   | Low                  |
| Niamatpur                       | Moderate             |
| Patnitala                       | High                 |
| Porsha                          | High                 |
| Raninagar                       | High                 |
| Sapahar                         | High                 |
| <b>Natore District</b>          | <b>High</b>          |
| Bagatipara                      | High                 |
| Baraigram                       | High                 |
| Gurudaspur                      | High                 |
| Lalpur                          | High                 |
| Naldanga                        | Moderate             |
| Natore Sadar                    | High                 |
| Singra                          | High                 |
| <b>Pabna District</b>           | <b>Moderate</b>      |
| Atgharia                        | Moderate             |

| Division, District, and Upazila | Legend <sup>22</sup> |
|---------------------------------|----------------------|
| Bera                            | High                 |
| Bhangura                        | Moderate             |
| Chatmohar                       | Moderate             |
| Faridpur                        | Moderate             |
| Ishwardi                        | Moderate             |
| Pabna Sadar                     | Low                  |
| Santhia                         | Moderate             |
| Sujanagar                       | Moderate             |
| <b>Rajshahi District</b>        | <b>Moderate</b>      |
| Bagha                           | Moderate             |
| Bagmara                         | Moderate             |
| Boalia                          | Low                  |
| Chandrima                       | Low                  |
| Charghat                        | Moderate             |
| Durgapur                        | Moderate             |
| Godagari                        | High                 |
| Kashiadanga                     | Low                  |
| Matihar                         | Low                  |
| Mohanpur                        | Moderate             |
| Paba                            | Moderate             |
| Puthia                          | Moderate             |
| Rajpara                         | Low                  |
| Shah Makhdum                    | Low                  |
| Tanore                          | High                 |
| <b>Sirajganj District</b>       | <b>Moderate</b>      |
| Belkuchi                        | High                 |
| Chouhali                        | Moderate             |
| Kamarkhanda                     | Low                  |
| Kazipur                         | High                 |
| Rayganj                         | Low                  |
| Shahjadpur                      | Moderate             |
| Sirajganj Sadar                 | Low                  |
| Tarash                          | Low                  |
| Ullapara                        | Moderate             |
| <b>Rangpur Division</b>         | <b>High</b>          |
| <b>Dinajpur District</b>        | <b>High</b>          |
| Birampur                        | High                 |
| Birganj                         | High                 |
| Birol                           | High                 |

| Division, District, and Upazila | Legend <sup>22</sup> |
|---------------------------------|----------------------|
| Bochaganj                       | High                 |
| Chirirbandar                    | High                 |
| Dinajpur Sadar                  | High                 |
| Fulbari                         | High                 |
| Ghoraghat                       | High                 |
| Hakimpur                        | Moderate             |
| Kaharole                        | High                 |
| Khansama                        | High                 |
| Nababganj                       | High                 |
| Parbatipur                      | Moderate             |
| <b>Gaibandha District</b>       | <b>High</b>          |
| Fulchhari                       | High                 |
| Gaibandha Sadar                 | High                 |
| Gobindaganj                     | High                 |
| Palashbari                      | High                 |
| Sadullapur                      | High                 |
| Saghata                         | High                 |
| Sundarganj                      | High                 |
| <b>Kurigram District</b>        | <b>High</b>          |
| Bhurungamari                    | High                 |
| Chilmari                        | High                 |
| Kurigram Sadar                  | High                 |
| Nageshwari                      | High                 |
| Phulbari                        | High                 |
| Rajarhat                        | High                 |
| Rajibpur                        | High                 |
| Roumari                         | High                 |
| Ulipur                          | High                 |
| <b>Lalmonirhat District</b>     | <b>High</b>          |
| Aditmari                        | Moderate             |
| Hatibandha                      | Moderate             |
| Kaliganj                        | High                 |
| Lalmonirhat Sadar               | High                 |
| Patgram                         | High                 |
| <b>Nilphamari District</b>      | <b>High</b>          |
| Dimla                           | High                 |
| Domar                           | Moderate             |
| Jaldhaka                        | High                 |
| Kishoreganj                     | High                 |
| Nilphamari Sadar                | Moderate             |

| Division, District, and Upazila | Legend <sup>22</sup> |
|---------------------------------|----------------------|
| Saidpur                         | High                 |
| <b>Panchagarh District</b>      | <b>High</b>          |
| Atowari                         | High                 |
| Boda                            | High                 |
| Debiganj                        | High                 |
| Panchagarh Sadar                | High                 |
| Tentulia                        | High                 |
| <b>Rangpur District</b>         | <b>High</b>          |
| Badarganj                       | High                 |
| Gangachara                      | Moderate             |
| Hajirhat                        | High                 |
| Haragachh                       | High                 |
| Kaunia                          | High                 |
| Kotwali                         | Moderate             |
| Mahiganj                        | High                 |
| Mithapukur                      | High                 |
| Parshuram                       | High                 |
| Pirgachha                       | Moderate             |
| Pirganj                         | High                 |
| Rangpur Sadar                   | High                 |
| Tajhat                          | High                 |
| Taraganj                        | High                 |
| <b>Thakurgaon District</b>      | <b>High</b>          |
| Baliadangi                      | High                 |
| Haripur                         | High                 |
| Pirganj                         | High                 |
| Ranishankail                    | Moderate             |
| Thakurgaon Sadar                | High                 |
| <b>Sylhet Division</b>          | <b>Moderate</b>      |
| <b>Habiganj District</b>        | <b>Low</b>           |
| Ajmiriganj                      | Moderate             |
| Bahubal                         | High                 |
| Baniachong                      | Low                  |
| Chunarughat                     | Moderate             |
| Habiganj Sadar                  | Low                  |
| Lakhai                          | Low                  |
| Madhabpur                       | Low                  |
| Nabiganj                        | Low                  |
| Shayestaganj                    | Low                  |

ANNEX 2: DIVISION, DISTRICT AND UPAZILA LEVEL EXTREME POVERTY OF 2022 (Continued)

| Division, District, and Upazila | Legend <sup>22</sup> |
|---------------------------------|----------------------|
| <b>Moulvibazar District</b>     | <b>High</b>          |
| Baralekha                       | Moderate             |
| Juri                            | High                 |
| Kamalganj                       | High                 |
| Kulaura                         | High                 |
| Moulvibazar Sadar               | Low                  |
| Rajnagar                        | Moderate             |
| Sreemangal                      | High                 |
| <b>Sunamganj District</b>       | <b>High</b>          |
| Bishwambharpur                  | High                 |
| Chhatak                         | High                 |
| Dera                            | Moderate             |
| Dharmapasha                     | High                 |
| Dowarabazar                     | Moderate             |
| Jagannathpur                    | High                 |
| Jamalganj                       | High                 |
| Madhyanagar                     | High                 |
| Shalla                          | High                 |
| Shantiganj                      | High                 |
| Sunamganj Sadar                 | Moderate             |

| Division, District, and Upazila | Legend <sup>22</sup> |
|---------------------------------|----------------------|
| Tahirpur                        | Moderate             |
| Sylhet District                 | Moderate             |
| Airport                         | Low                  |
| Balaganj                        | Moderate             |
| Beanibazar                      | Moderate             |
| Bishwanath                      | Moderate             |
| Companiganj                     | Moderate             |
| Dakkhin Surma                   | Low                  |
| Fenchuganj                      | Moderate             |
| Golapganj                       | Moderate             |
| Gowainghat                      | Moderate             |
| Jaintapur                       | Moderate             |
| Jalalabad                       | Low                  |
| Kanaighat                       | Low                  |
| Kotwali                         | Low                  |
| Moglabazar                      | Low                  |
| Osmaninagar                     | Moderate             |
| Shahparan                       | Low                  |
| Sylhet Sadar                    | High                 |
| Zakiganj                        | Moderate             |

## ANNEX 3

### POTENTIAL VARIABLES

| Variables        | Description  |
|------------------|--|
| hh_age_avg       | Household mean age   |
| hh_avg_educ      | HH average. years of education by members                                |
| hh_cook_elc      | HH dwelling cooking fuel source: electricity                             |
| hh_cook_gas      | HH dwelling cooking fuel source: supply gas/LPG gas/Biogas               |
| hh_cook_keds     | HH dwelling cooking fuel source: kerosene/paraffin/petrol/diesel         |
| hh_cook_oth      | HH dwelling cooking fuel source: other sources                           |
| hh_cook_wdc      | HH dwelling cooking fuel source: traditional fuel (wood/coal/straw/etc.) |
| hh_dep_ratio     | HH proportion members aged 0-14 and 65+ yrs to members 15-64.            |
| hh_dw_slm        | HH dwelling type: slum = 1   |
| hh_ecn_agr       | HH premise-based economic activity: agriculture                          |
| hh_ecn_bagr      | HH premise-based economic activity: both agriculture and non-agriculture |
| hh_ecn_nagr      | HH premise-based economic activity: non-agriculture                      |
| hh_ecn_no        | HH premise-based economic activity: none                                 |
| hh_elect         | HH dwelling electricity source: grid, solar, or other sources            |
| hh_head_age      | Household head age   |
| hh_head_b        | HH head religion: Buddhist   |
| hh_head_bnk      | HH head 15+ has a bank insurance/microcredit/post office savings account |
| hh_head_c        | HH head religion: Christian  |
| hh_head_d        | HH head marital status: divorced   |
| hh_head_dis      | HH head with disabilities  |
| hh_head_educ     | HH head highest years of education                                       |
| hh_head_educ_prc | HH head with primary education complete                                  |
| hh_head_educ_pri | HH head with primary education incomplete                                |
| hh_head_educ_sec | HH head with secondary education complete                                |
| hh_head_educ_sei | HH head with secondary education incomplete                              |
| hh_head_educ_ter | HH head with tertiary education  |
| hh_head_educ0    | HH head with no education  |
| hh_head_h        | HH head religion: Hindu  |
| hh_head_int      | HH head has used the internet in the last 3 months                       |
| hh_head_ls_nlf   | HH head labor status: not in the labor force                             |
| hh_head_ls_u     | HH head labor status: unemployed   |
| hh_head_ls_wrk   | HH head labor status: employed   |
| hh_head_m        | HH head marital status: married  |
| hh_head_male     | Household head male  |
| hh_head_mbnk     | HH head 15+ has mobile banking account                                   |
| hh_head_mob      | HH head has a mobile phone   |
| hh_head_msl      | HH head religion: Muslim   |

## ANNEX 3: POTENTIAL VARIABLES (Continued)

| Variables       | Description   |
|-----------------|---|
| hh_head_nm      | HH head marital status: never married   |
| hh_head_nmsl    | HH head religion: non-Muslim  |
| hh_head_nrw     | HH head literacy: cannot read or write  |
| hh_head_r       | HH head literacy: only read   |
| hh_head_rw      | HH head literacy: can read and write  |
| hh_head_s       | HH head marital status: separated   |
| hh_head_w       | HH head marital status: widow/widower   |
| hh_head_wrk_agr | HH head labor field: working for wage/profit in agriculture                   |
| hh_head_wrk_ind | HH head labor field: working for wage/profit in industry                      |
| hh_head_wrk_s   | HH head labor type: working for wage  |
| hh_head_wrk_srv | HH head labor field: working for wage/profit in service                       |
| hh_memb_abr     | HH members living abroad  |
| hh_memb_rabr    | HH members who returned permanently from abroad in the last two 5 years       |
| hh_mx_educ      | HH max. years of education by members   |
| hh_own          | HH dwelling ownership: owned  |
| hh_rent         | HH dwelling ownership: rent   |
| hh_rmt          | HH received foreign remittances in the last 2 years                           |
| hh_roof_cmt     | HH dwelling roof: cement, concrete, brick, terracotta                         |
| hh_roof_met     | HH dwelling roof: metal tin/CI Sheet/Corrugated                               |
| hh_roof_oth     | HH dwelling roof: none/tent/other material                                    |
| hh_sex_ratio    | HH sex ratio: male to female  |
| hh_sh_age0      | HH proportion of members aged 0 years.  |
| hh_sh_age0_14   | HH proportion of members aged 0_14 years.                                     |
| hh_sh_age0_4    | HH proportion members aged 0-4 years.   |
| hh_sh_age1      | HH proportion of members aged 1 year.   |
| hh_sh_age15_64  | HH proportion of members aged 15_64 years.                                    |
| hh_sh_age2      | HH proportion of members aged 2 years.  |
| hh_sh_age3      | HH proportion of members aged 3 years.  |
| hh_sh_age4      | HH proportion of members aged 4 years.  |
| hh_sh_age65plus | HH proportion of members aged 65+ years.                                      |
| hh_sh_bnk       | HH proportion of members 15+ that have bank insurance/microcredit/post office |
| hh_sh_dis       | HH proportion of members with disabilities                                    |
| hh_sh_female    | HH proportion of female members   |
| hh_sh_int       | HH proportion of members that used the internet in last 3 months              |
| hh_sh_ls_wrk    | HH proportion employed  |
| hh_sh_male      | HH proportion of male members   |
| hh_sh_mbnk      | HH proportion of members 15+ that have a mobile banking account.              |
| hh_sh_mob       | HH proportion of members that have a mobile phone                             |
| hh_sh_nrw       | HH proportion of members 5+ that cannot read or write                         |
| hh_sh_r         | HH proportion of members 5+ that can only read                                |
| hh_sh_rw        | HH proportion of members 5+ that can read and write                           |

| Variables         | Description  |
|-------------------|--|
| hh_sh_wrk_agr     | HH proportion working in agriculture                               |
| hh_sh_wrk_ind     | HH proportion working in industry                                  |
| hh_sh_wrk_s       | HH proportion labor type: salary working                           |
| hh_sh_wrk_srv     | HH proportion working in service                                   |
| hh_sh1564_rw      | HH proportion of members 15-64 that can read and write             |
| hh_size           | Household size   |
| hh_size_age0      | HH members aged 0 years  |
| hh_size_age0_14   | HH members aged 0_14 years   |
| hh_size_age1      | HH members aged 1 years  |
| hh_size_age15_64  | HH members aged 15_64 years  |
| hh_size_age2      | HH members aged 2 years  |
| hh_size_age3      | HH members aged 3 years  |
| hh_size_age4      | HH members aged 4 years  |
| hh_size_age65plus | HH members aged 65+ years  |
| hh_size_sq        | Household size squared   |
| hh_snt_no         | HH dwelling toilet: no latrine available /open defecation          |
| hh_snt_shr        | HH dwelling toilet type: shared                                    |
| hh_snt_sl         | HH dwelling toilet: safe latrine                                   |
| hh_snt_ul         | HH dwelling toilet: unsafe latrine                                 |
| hh_sp_educ        | HH spouse's highest years of education                             |
| hh_sp_educ_prc    | HH spouse with primary education complete                          |
| hh_sp_educ_pri    | HH spouse with primary education incomplete                        |
| hh_sp_educ_sec    | HH spouse with secondary education complete                        |
| hh_sp_educ_sei    | HH spouse with secondary education incomplete                      |
| hh_sp_educ_ter    | HH spouse with tertiary education                                  |
| hh_sp_educ0       | HH spouse with no education  |
| hh_wall_cmt       | HH dwelling walls: cement, concrete, brick, terracotta             |
| hh_wall_met       | HH dwelling walls: metal tin/CI Sheet                              |
| hh_wall_oth       | HH dwelling walls: none or other material                          |
| hh_wall_wdst      | HH dwelling walls: wood/bamboo/mat/palm tree/betel tree/straw/chan |
| hh_wo_rent        | HH dwelling ownership: without rent                                |
| hh_wshr_f         | HH dwelling hand washing facility: has facility                    |
| hh_wshr_nof       | HH dwelling hand washing facility: no facility                     |
| hh_wt_opip        | HH dwelling water source: other than pipe water                    |
| hh_wt_otap        | HH dwelling water source: other than tap                           |
| hh_wt_otaptube    | HH dwelling water source: other than tap and tubewell              |
| hh_wt_otube       | HH dwelling water source: other than tubewell                      |
| hh_wt_pip         | HH dwelling water source: pipe                                     |
| hh_wt_tap         | HH dwelling water source: tap                                      |
| hh_wt_taptube     | HH dwelling water source: tap or tubewell                          |
| hh_wt_tube        | HH dwelling water source: tubewell                                 |

## ANNEX 4

### SELECTION OF ELIGIBLE VARIABLES BY DOMAIN

| Variables         | Normalized distance to HIES 95 CI by domain |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                   | 1   | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | Avg.  |
| hh_sh_age2        | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| hh_sh_age3        | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| hh_size_age2      | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| hh_size_age65plus | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| hh_sh_age0_4      | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |
| hh_elect          | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| hh_head_msl       | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 |
| hh_size_age3      | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.020 | 0.001 |
| hh_age_avg        | 0.001                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.016 | 0.000 | 0.000 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 |
| hh_wt_pip         | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.017 | 0.002 |
| hh_wt_taptube     | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.017 | 0.002 |
| hh_size_age1      | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.024 | 0.000 | 0.014 | 0.002 |
| hh_sh_rw          | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.007 | 0.002 | 0.000 | 0.008 | 0.000 | 0.007 | 0.000 | 0.000 | 0.015 | 0.002 |
| hh_head_age       | 0.000                                       | 0.000 | 0.004 | 0.000 | 0.000 | 0.018 | 0.000 | 0.012 | 0.000 | 0.010 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 |
| hh_sh_age15_64    | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.020 | 0.021 | 0.000 | 0.000 | 0.004 |
| hh_sh_nrw         | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.030 | 0.000 | 0.000 | 0.000 | 0.003 | 0.028 | 0.004 |
| hh_size_age4      | 0.000                                       | 0.000 | 0.006 | 0.000 | 0.000 | 0.000 | 0.004 | 0.060 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.004 |
| hh_sh_mob         | 0.000                                       | 0.021 | 0.000 | 0.000 | 0.004 | 0.000 | 0.000 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.037 | 0.000 | 0.000 | 0.005 |
| hh_dep_ratio      | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.064 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.026 | 0.000 | 0.000 | 0.006 |
| hh_sh_age1        | 0.000                                       | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.039 | 0.000 | 0.037 | 0.006 |
| hh_head_rw        | 0.000                                       | 0.000 | 0.000 | 0.044 | 0.000 | 0.000 | 0.039 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 | 0.000 | 0.006 |
| hh_sh1564_rw      | 0.000                                       | 0.000 | 0.001 | 0.023 | 0.000 | 0.008 | 0.016 | 0.012 | 0.000 | 0.000 | 0.017 | 0.000 | 0.000 | 0.022 | 0.000 | 0.000 | 0.006 |
| hh_sp_educ_sec    | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.007 |
| hh_memb_abr       | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.109 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.007 |
| hh_head_wrk_srv   | 0.009                                       | 0.000 | 0.000 | 0.032 | 0.000 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.067 | 0.000 | 0.000 | 0.000 | 0.000 | 0.007 |
| hh_cook_wdc       | 0.000                                       | 0.000 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.117 | 0.000 | 0.000 | 0.007 |
| hh_sh_age4        | 0.000                                       | 0.000 | 0.058 | 0.000 | 0.000 | 0.000 | 0.000 | 0.063 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.008 |

ANNEX 4: SELECTION OF ELIGIBLE VARIABLES BY DOMAIN (Continued)

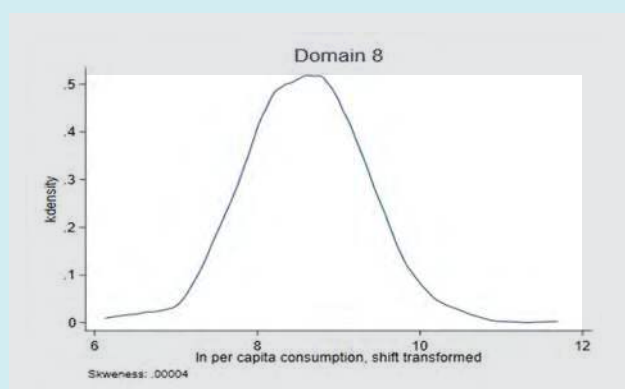
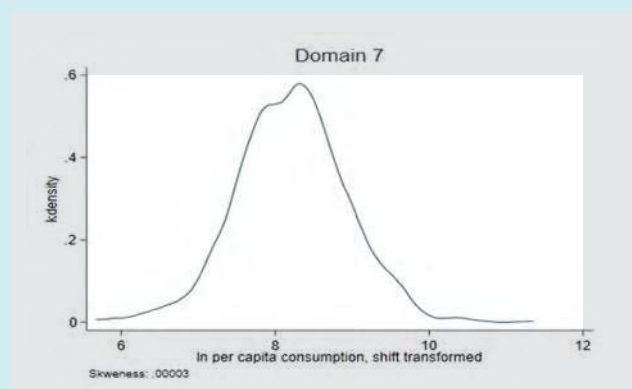
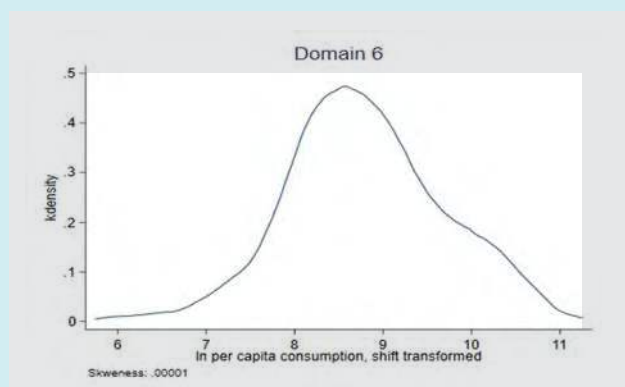
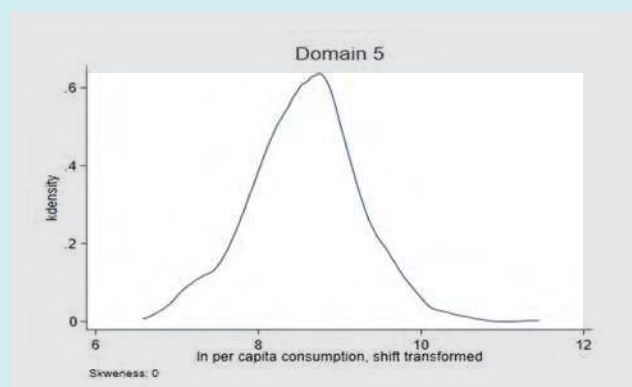
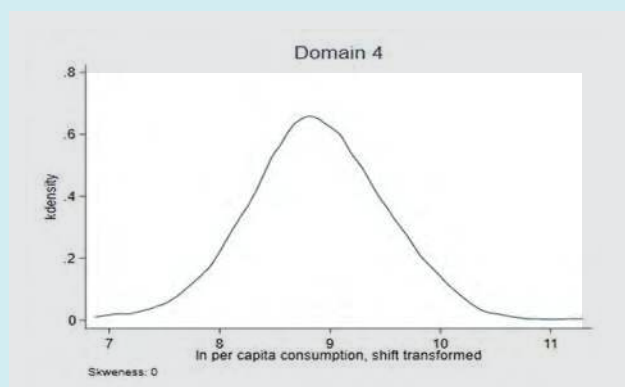
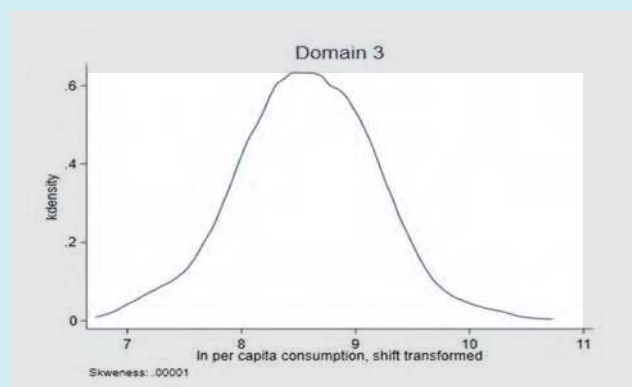
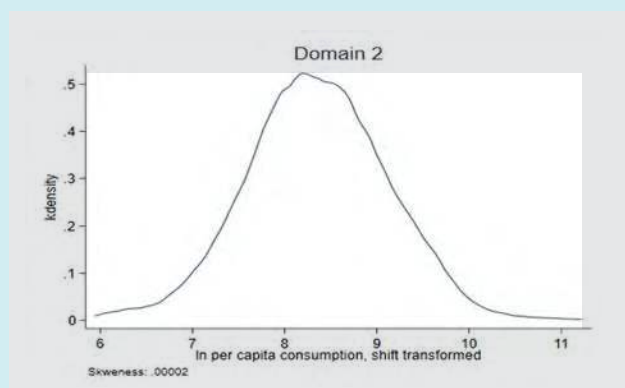
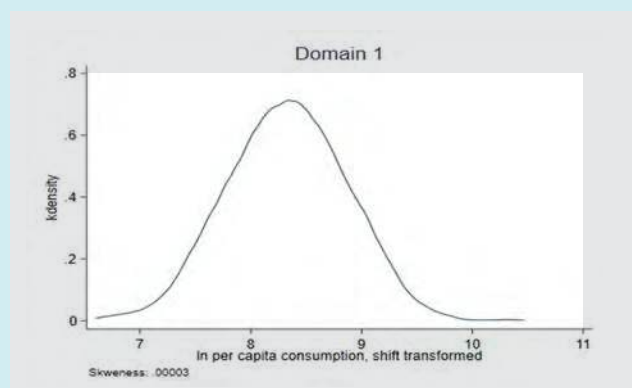
| Variables        | Normalized distance to HIES 95 CI by domain |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                  | 1   | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | Avg.  |
| hh_roof_met      | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.034 | 0.029 | 0.067 | 0.008 |
| hh_head_d        | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.130 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.008 |
| hh_head_nmsl     | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.135 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.008 |
| hh_head_m        | 0.026                                       | 0.006 | 0.000 | 0.004 | 0.030 | 0.010 | 0.002 | 0.000 | 0.000 | 0.014 | 0.009 | 0.023 | 0.003 | 0.011 | 0.000 | 0.005 | 0.009 |
| hh_head_educ_pri | 0.000                                       | 0.000 | 0.000 | 0.132 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.015 | 0.009 |
| hh_sh_age0_14    | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.080 | 0.000 | 0.000 | 0.007 | 0.027 | 0.000 | 0.033 | 0.000 | 0.000 | 0.000 | 0.000 | 0.009 |
| hh_wall_met      | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.161 | 0.000 | 0.000 | 0.010 |
| hh_own           | 0.005                                       | 0.019 | 0.025 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.026 | 0.028 | 0.033 | 0.032 | 0.000 | 0.000 | 0.011 |
| hh_sh_female     | 0.025                                       | 0.019 | 0.000 | 0.000 | 0.012 | 0.000 | 0.017 | 0.000 | 0.032 | 0.014 | 0.012 | 0.020 | 0.040 | 0.000 | 0.000 | 0.000 | 0.012 |
| hh_head_educ_ter | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.015 | 0.193 | 0.000 | 0.000 | 0.013 |
| hh_sh_male       | 0.028                                       | 0.021 | 0.000 | 0.000 | 0.013 | 0.000 | 0.018 | 0.000 | 0.036 | 0.015 | 0.013 | 0.022 | 0.044 | 0.000 | 0.000 | 0.000 | 0.013 |
| hh_head_nrw      | 0.000                                       | 0.000 | 0.000 | 0.102 | 0.000 | 0.000 | 0.037 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.089 | 0.000 | 0.000 | 0.014 |
| hh_rmt           | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.135 | 0.046 | 0.056 | 0.015 |
| hh_wall_cmt      | 0.000                                       | 0.027 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.055 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.155 | 0.000 | 0.005 | 0.015 |
| hh_sp_educ_pri   | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.029 | 0.000 | 0.000 | 0.162 | 0.000 | 0.056 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.015 |
| hh_cook_gas      | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.249 | 0.000 | 0.000 | 0.016 |
| hh_sp_educ_ter   | 0.000                                       | 0.070 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.201 | 0.000 | 0.000 | 0.017 |
| hh_head_h        | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.273 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.017 |
| hh_sp_educ0      | 0.000                                       | 0.000 | 0.000 | 0.062 | 0.000 | 0.000 | 0.000 | 0.035 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.128 | 0.017 | 0.041 | 0.018 |
| hh_head_educ     | 0.000                                       | 0.000 | 0.000 | 0.070 | 0.000 | 0.000 | 0.056 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.031 | 0.126 | 0.000 | 0.000 | 0.018 |
| hh_avg_educ      | 0.000                                       | 0.011 | 0.000 | 0.041 | 0.000 | 0.000 | 0.031 | 0.000 | 0.047 | 0.000 | 0.000 | 0.000 | 0.073 | 0.117 | 0.000 | 0.000 | 0.020 |
| hh_head_educ_sec | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.101 | 0.000 | 0.000 | 0.000 | 0.000 | 0.222 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.020 |
| hh_size_age0_14  | 0.009                                       | 0.007 | 0.000 | 0.000 | 0.000 | 0.112 | 0.004 | 0.000 | 0.067 | 0.064 | 0.000 | 0.063 | 0.000 | 0.000 | 0.000 | 0.000 | 0.020 |
| hh_head_educ_sei | 0.000                                       | 0.000 | 0.000 | 0.179 | 0.049 | 0.000 | 0.000 | 0.024 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.075 | 0.020 |
| hh_head_s        | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.041 | 0.300 | 0.000 | 0.000 | 0.000 | 0.021 |
| hh_wt_tube       | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.033 | 0.000 | 0.000 | 0.003 | 0.000 | 0.153 | 0.037 | 0.000 | 0.000 | 0.091 | 0.021 | 0.009 | 0.022 |
| hh_wt_otap       | 0.005                                       | 0.000 | 0.017 | 0.000 | 0.037 | 0.009 | 0.004 | 0.000 | 0.002 | 0.108 | 0.042 | 0.000 | 0.002 | 0.083 | 0.010 | 0.035 | 0.022 |
| hh_head_mob      | 0.020                                       | 0.048 | 0.022 | 0.022 | 0.052 | 0.018 | 0.000 | 0.000 | 0.046 | 0.020 | 0.012 | 0.000 | 0.006 | 0.029 | 0.062 | 0.068 | 0.027 |
| hh_head_dis      | 0.000                                       | 0.000 | 0.190 | 0.000 | 0.000 | 0.000 | 0.103 | 0.000 | 0.000 | 0.000 | 0.168 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.029 |
| hh_roof_cmt      | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.148 | 0.000 | 0.000 | 0.000 | 0.000 | 0.184 | 0.113 | 0.086 | 0.033 |
| hh_head_educ_prc | 0.003                                       | 0.000 | 0.070 | 0.000 | 0.098 | 0.000 | 0.071 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.021 | 0.000 | 0.203 | 0.094 | 0.035 |

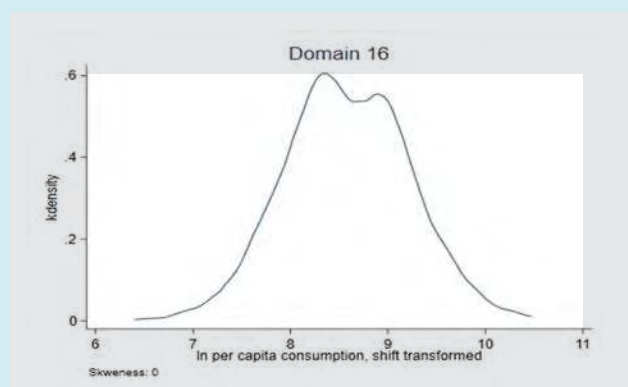
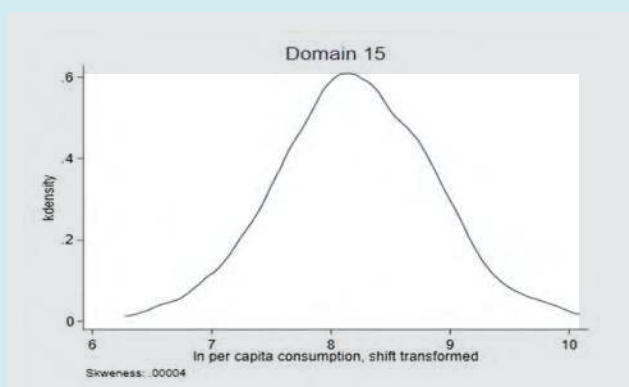
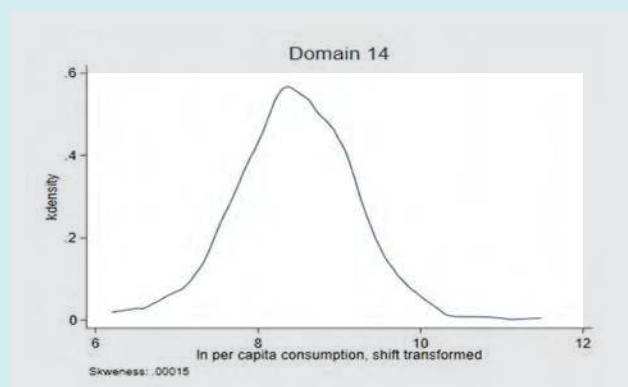
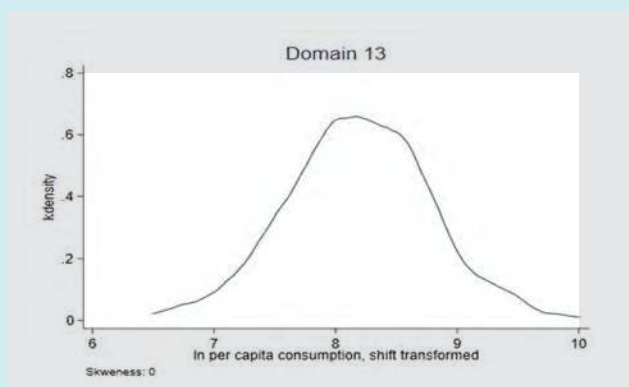
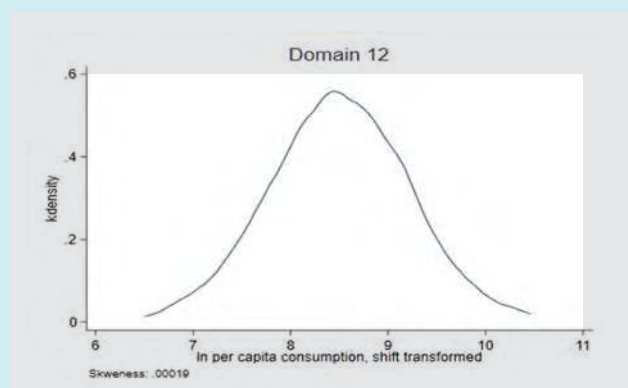
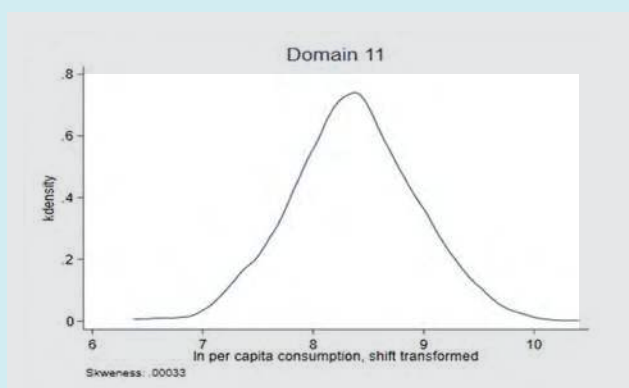
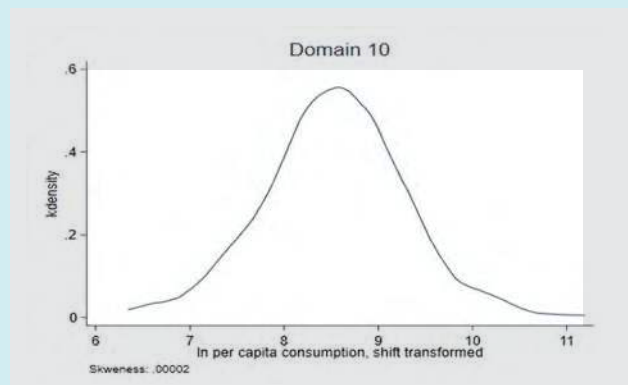
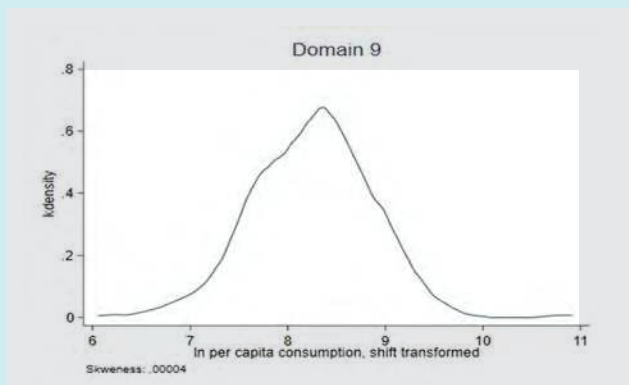
ANNEX 4: SELECTION OF ELIGIBLE VARIABLES BY DOMAIN (Continued)

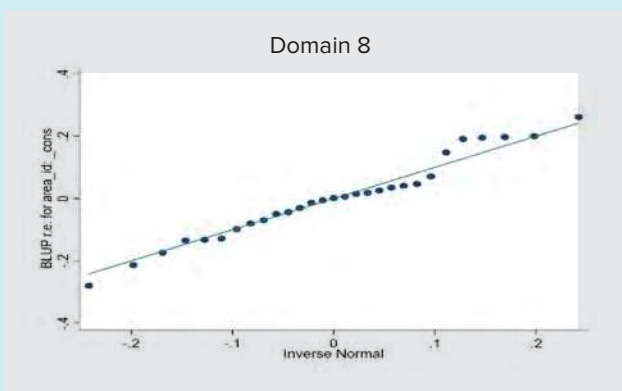
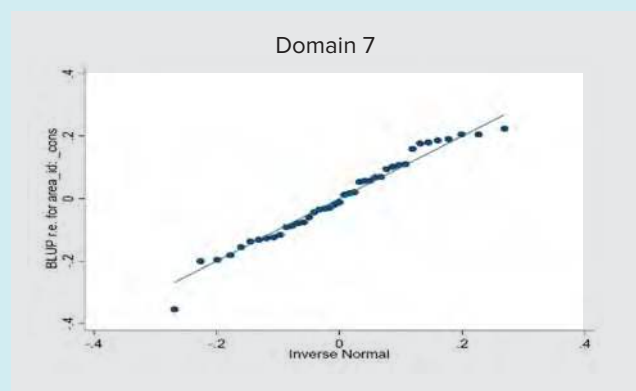
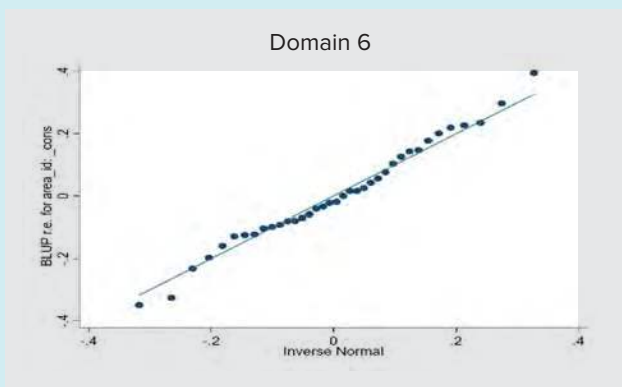
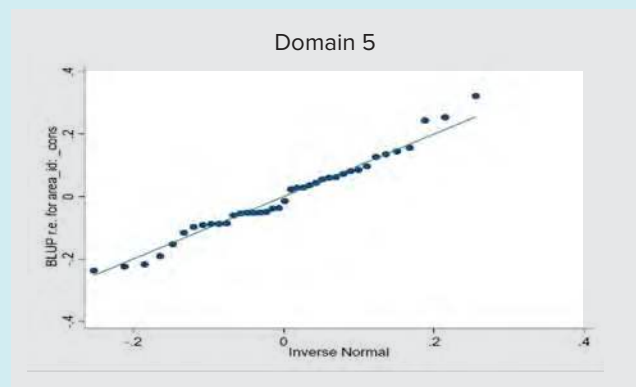
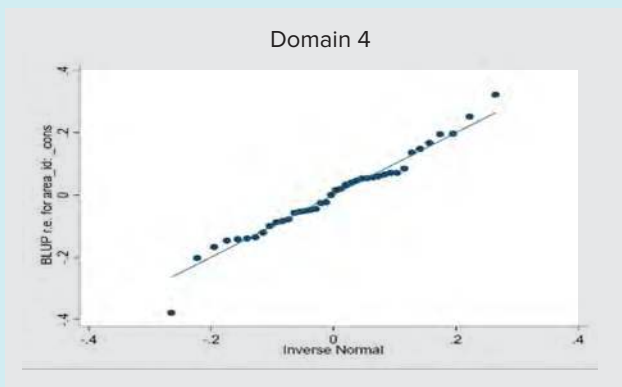
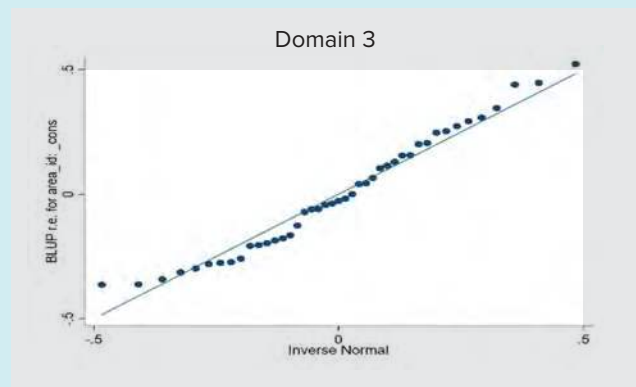
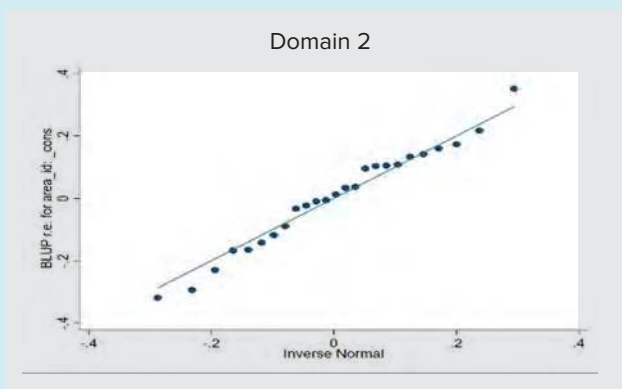
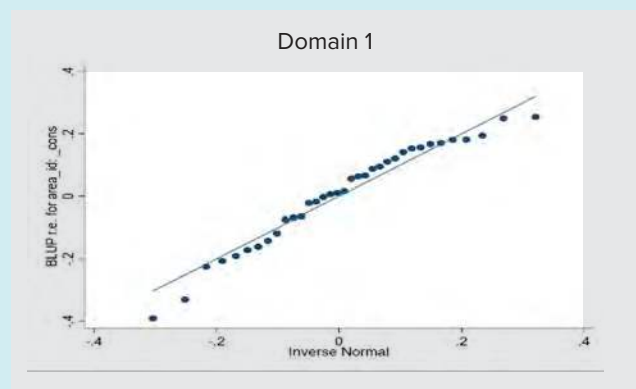
| Variables        | Normalized distance to HIES 95 CI by domain |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                  | 1   | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | Avg.  |
| hh_wshr_f        | 0.000                                       | 0.000 | 0.000 | 0.047 | 0.003 | 0.000 | 0.000 | 0.007 | 0.150 | 0.087 | 0.065 | 0.027 | 0.000 | 0.000 | 0.140 | 0.049 | 0.036 |
| hh_rent          | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.591 | 0.000 | 0.037 |
| hh_wall_oth      | 0.000                                       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.176 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.092 | 0.000 | 0.326 | 0.037 |
| hh_sex_ratio     | 0.057                                       | 0.080 | 0.000 | 0.000 | 0.060 | 0.042 | 0.039 | 0.047 | 0.070 | 0.062 | 0.022 | 0.060 | 0.083 | 0.003 | 0.000 | 0.000 | 0.039 |
| hh_sh_wrk_srv    | 0.053                                       | 0.000 | 0.000 | 0.167 | 0.091 | 0.160 | 0.000 | 0.065 | 0.000 | 0.000 | 0.000 | 0.110 | 0.000 | 0.000 | 0.000 | 0.000 | 0.040 |
| hh_mx_educ       | 0.047                                       | 0.046 | 0.014 | 0.044 | 0.022 | 0.000 | 0.043 | 0.036 | 0.108 | 0.015 | 0.017 | 0.023 | 0.098 | 0.126 | 0.032 | 0.000 | 0.042 |
| hh_sh_dis        | 0.000                                       | 0.286 | 0.000 | 0.078 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.141 | 0.000 | 0.000 | 0.000 | 0.188 | 0.000 | 0.043 |
| hh_head_male     | 0.089                                       | 0.084 | 0.069 | 0.039 | 0.026 | 0.012 | 0.028 | 0.038 | 0.059 | 0.055 | 0.038 | 0.072 | 0.045 | 0.036 | 0.002 | 0.013 | 0.044 |
| hh_snt_shr       | 0.171                                       | 0.000 | 0.267 | 0.000 | 0.075 | 0.000 | 0.000 | 0.006 | 0.074 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.115 | 0.000 | 0.044 |
| hh_head_ls_u     | 0.000                                       | 0.000 | 0.301 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.300 | 0.085 | 0.061 | 0.000 | 0.047 |
| hh_head_int      | 0.060                                       | 0.361 | 0.012 | 0.000 | 0.112 | 0.030 | 0.000 | 0.000 | 0.045 | 0.000 | 0.087 | 0.000 | 0.000 | 0.048 | 0.021 | 0.000 | 0.048 |
| hh_size          | 0.057                                       | 0.067 | 0.042 | 0.026 | 0.033 | 0.088 | 0.044 | 0.056 | 0.103 | 0.075 | 0.050 | 0.074 | 0.045 | 0.034 | 0.035 | 0.000 | 0.052 |
| hh_head_wrk_s    | 0.000                                       | 0.076 | 0.093 | 0.069 | 0.000 | 0.000 | 0.000 | 0.000 | 0.068 | 0.085 | 0.027 | 0.090 | 0.102 | 0.107 | 0.000 | 0.124 | 0.053 |
| hh_head_educ0    | 0.000                                       | 0.065 | 0.018 | 0.174 | 0.064 | 0.088 | 0.105 | 0.000 | 0.004 | 0.014 | 0.000 | 0.000 | 0.040 | 0.205 | 0.052 | 0.065 | 0.056 |
| hh_sh_wrk_s      | 0.022                                       | 0.061 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.175 | 0.039 | 0.156 | 0.058 | 0.216 | 0.145 | 0.000 | 0.049 | 0.058 |
| hh_size_sq       | 0.063                                       | 0.090 | 0.029 | 0.000 | 0.017 | 0.116 | 0.066 | 0.062 | 0.152 | 0.093 | 0.067 | 0.101 | 0.038 | 0.021 | 0.020 | 0.000 | 0.058 |
| hh_size_age15_64 | 0.076                                       | 0.071 | 0.049 | 0.042 | 0.053 | 0.059 | 0.045 | 0.072 | 0.117 | 0.076 | 0.065 | 0.065 | 0.079 | 0.075 | 0.020 | 0.000 | 0.060 |
| hh_wall_wdst     | 0.000                                       | 0.200 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.098 | 0.000 | 0.570 | 0.168 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.065 |
| hh_sp_educ_prc   | 0.179                                       | 0.000 | 0.027 | 0.061 | 0.108 | 0.053 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.557 | 0.104 | 0.068 |
| hh_sp_educ       | 0.112                                       | 0.157 | 0.037 | 0.134 | 0.098 | 0.030 | 0.096 | 0.061 | 0.060 | 0.034 | 0.000 | 0.046 | 0.056 | 0.173 | 0.062 | 0.040 | 0.075 |
| hh_sh_bnk        | 0.073                                       | 0.244 | 0.000 | 0.010 | 0.089 | 0.000 | 0.167 | 0.095 | 0.235 | 0.244 | 0.000 | 0.000 | 0.100 | 0.000 | 0.031 | 0.000 | 0.081 |
| hh_sp_educ_sei   | 0.044                                       | 0.245 | 0.016 | 0.163 | 0.152 | 0.055 | 0.079 | 0.136 | 0.014 | 0.107 | 0.000 | 0.067 | 0.077 | 0.044 | 0.000 | 0.122 | 0.082 |
| hh_sh_age0       | 0.140                                       | 0.000 | 0.217 | 0.000 | 0.097 | 0.299 | 0.000 | 0.129 | 0.000 | 0.101 | 0.000 | 0.000 | 0.148 | 0.000 | 0.207 | 0.000 | 0.084 |
| hh_sh_age65plus  | 0.124                                       | 0.019 | 0.000 | 0.000 | 0.028 | 0.000 | 0.112 | 0.124 | 0.228 | 0.118 | 0.167 | 0.034 | 0.188 | 0.194 | 0.000 | 0.029 | 0.085 |
| hh_ecn_agr       | 0.000                                       | 0.379 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.058 | 0.090 | 0.160 | 0.000 | 0.000 | 0.000 | 0.350 | 0.038 | 0.390 | 0.092 |
| hh_sh_int        | 0.220                                       | 0.421 | 0.000 | 0.000 | 0.213 | 0.209 | 0.000 | 0.031 | 0.085 | 0.048 | 0.000 | 0.000 | 0.000 | 0.099 | 0.133 | 0.017 | 0.092 |
| hh_head_nm       | 0.000                                       | 0.185 | 0.000 | 0.000 | 0.000 | 0.514 | 0.000 | 0.000 | 0.000 | 0.176 | 0.015 | 0.279 | 0.241 | 0.108 | 0.000 | 0.000 | 0.095 |
| hh_head_bnk      | 0.000                                       | 0.186 | 0.000 | 0.102 | 0.132 | 0.094 | 0.136 | 0.123 | 0.277 | 0.168 | 0.051 | 0.000 | 0.040 | 0.000 | 0.095 | 0.132 | 0.096 |
| hh_head_w        | 0.329                                       | 0.048 | 0.000 | 0.156 | 0.322 | 0.000 | 0.139 | 0.000 | 0.064 | 0.027 | 0.057 | 0.107 | 0.158 | 0.037 | 0.046 | 0.076 | 0.098 |
| hh_sh_mbnk       | 0.178                                       | 0.175 | 0.000 | 0.037 | 0.234 | 0.150 | 0.011 | 0.000 | 0.127 | 0.077 | 0.070 | 0.071 | 0.044 | 0.067 | 0.193 | 0.138 | 0.098 |
| hh_sh_ls_wrk     | 0.104                                       | 0.110 | 0.110 | 0.000 | 0.003 | 0.000 | 0.114 | 0.006 | 0.179 | 0.034 | 0.296 | 0.106 | 0.307 | 0.150 | 0.082 | 0.067 | 0.104 |

ANNEX 4: SELECTION OF ELIGIBLE VARIABLES BY DOMAIN (Continued)

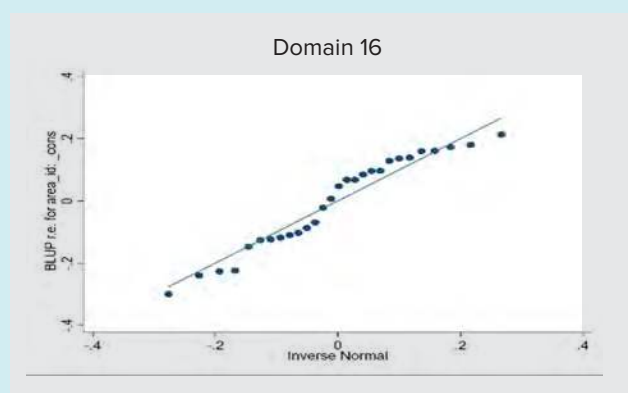
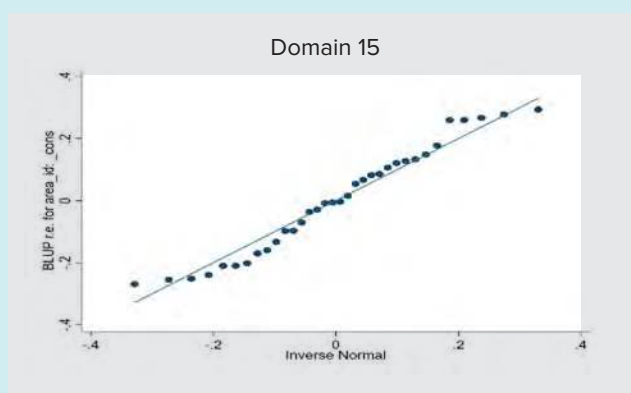
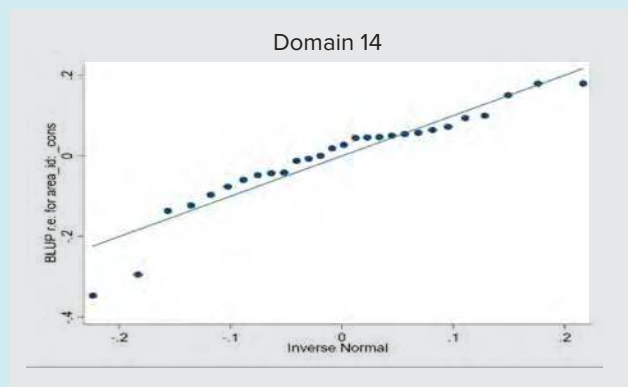
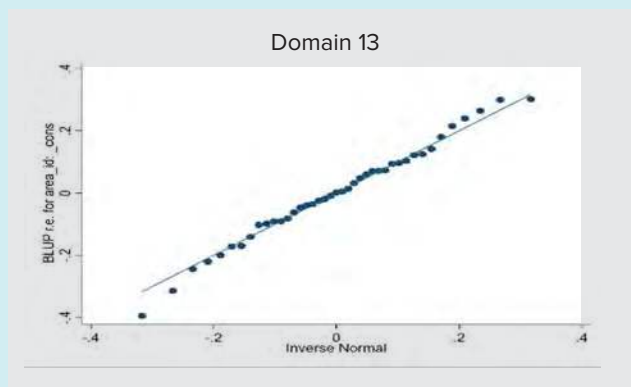
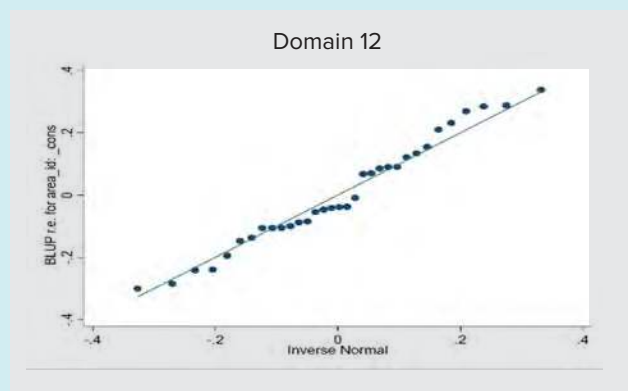
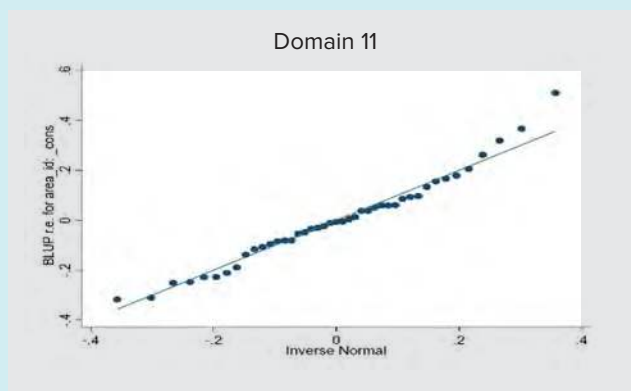
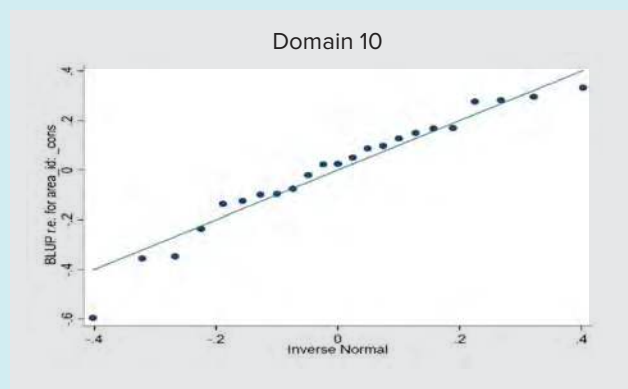
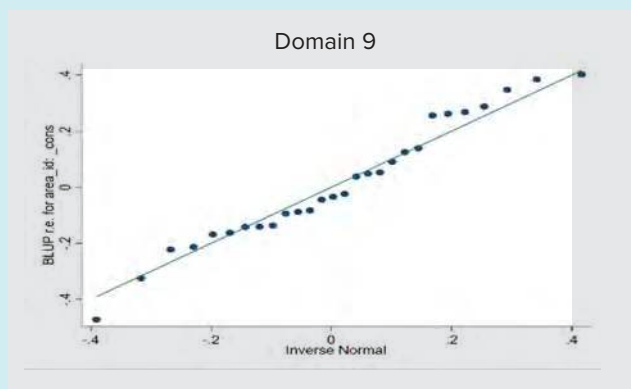
| Variables       | Normalized distance to HIES 95 CI by domain |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-----------------|---|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                 | 1   | 2     | 3      | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | Avg.  |
| hh_roof_oth     | 0.000                                       | 0.000 | 0.000  | 0.514 | 0.000 | 0.000 | 0.000 | 0.154 | 0.067 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.311 | 0.719 | 0.110 |
| hh_sh_r         | 0.000                                       | 0.000 | 0.377  | 0.169 | 0.008 | 0.202 | 0.436 | 0.138 | 0.000 | 0.000 | 0.000 | 0.000 | 0.171 | 0.274 | 0.000 | 0.000 | 0.111 |
| hh_head_ls_wrk  | 0.125                                       | 0.114 | 0.135  | 0.014 | 0.107 | 0.020 | 0.088 | 0.050 | 0.204 | 0.073 | 0.231 | 0.097 | 0.211 | 0.093 | 0.119 | 0.142 | 0.114 |
| hh_size_age0    | 0.194                                       | 0.000 | 0.305  | 0.000 | 0.088 | 0.403 | 0.000 | 0.261 | 0.036 | 0.232 | 0.000 | 0.000 | 0.138 | 0.000 | 0.343 | 0.000 | 0.125 |
| hh_head_mbnk    | 0.210                                       | 0.221 | 0.077  | 0.115 | 0.263 | 0.207 | 0.040 | 0.000 | 0.233 | 0.099 | 0.051 | 0.043 | 0.015 | 0.038 | 0.287 | 0.299 | 0.137 |
| hh_head_r       | 0.000                                       | 0.215 | 0.000  | 0.084 | 0.000 | 0.826 | 0.318 | 0.648 | 0.000 | 0.000 | 0.000 | 0.000 | 0.112 | 0.000 | 0.000 | 0.000 | 0.138 |
| hh_ecn_nagr     | 0.000                                       | 0.482 | 0.000  | 0.000 | 0.079 | 0.251 | 0.449 | 0.308 | 0.054 | 0.000 | 0.270 | 0.129 | 0.097 | 0.075 | 0.029 | 0.060 | 0.143 |
| hh_snt_sl       | 0.177                                       | 0.196 | 0.113  | 0.104 | 0.147 | 0.034 | 0.227 | 0.151 | 0.179 | 0.196 | 0.212 | 0.114 | 0.089 | 0.071 | 0.374 | 0.120 | 0.156 |
| hh_head_wrk_agr | 0.487                                       | 0.000 | 0.359  | 0.069 | 0.164 | 0.000 | 0.010 | 0.000 | 0.252 | 0.000 | 0.282 | 0.000 | 0.310 | 0.069 | 0.506 | 0.000 | 0.157 |
| hh_dw_slm       | 0.000                                       | 0.000 | 0.000  | 0.000 | 0.000 | 0.000 | 0.000 | 0.508 | 0.000 | 0.000 | 1.000 | 0.694 | 0.000 | 0.000 | 0.000 | 0.565 | 0.173 |
| hh_ecn_bagr     | 0.089                                       | 0.106 | 0.449  | 0.148 | 0.000 | 0.273 | 0.000 | 0.209 | 0.248 | 0.321 | 0.207 | 0.000 | 0.000 | 0.121 | 0.174 | 0.424 | 0.173 |
| hh_sh_wrk_agr   | 0.449                                       | 0.000 | 0.308  | 0.000 | 0.117 | 0.000 | 0.003 | 0.000 | 0.143 | 0.000 | 0.805 | 0.356 | 0.382 | 0.000 | 0.604 | 0.000 | 0.198 |
| hh_wshr_nof     | 0.000                                       | 0.000 | 0.000  | 0.525 | 0.033 | 0.000 | 0.000 | 0.078 | 0.601 | 0.517 | 0.432 | 0.342 | 0.000 | 0.000 | 0.664 | 0.395 | 0.224 |
| hh_head_ls_nlf  | 0.184                                       | 0.265 | 0.144  | 0.046 | 0.213 | 0.107 | 0.319 | 0.225 | 0.336 | 0.212 | 0.482 | 0.296 | 0.383 | 0.253 | 0.148 | 0.296 | 0.244 |
| hh_wt_opip      | 0.000                                       | 0.000 | 0.000  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 3.594 | 0.000 | 0.000 | 0.000 | 0.000 | 0.129 | 0.754 | 0.280 |
| hh_wt_otaptube  | 0.000                                       | 0.000 | 0.000  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 3.594 | 0.000 | 0.000 | 0.000 | 0.000 | 0.129 | 0.754 | 0.280 |
| hh_cook_keds    | 0.000                                       | 1.262 | 0.000  | 0.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 1.000 | 0.000 | 0.000 | 1.000 | 0.000 | 0.000 | 0.329 |
| hh_wo_rent      | 0.000                                       | 0.000 | 1.190  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1.389 | 1.494 | 2.011 | 0.231 | 0.000 | 0.000 | 0.395 |
| hh_wt_otube     | 0.000                                       | 0.000 | 0.000  | 0.000 | 0.853 | 0.000 | 0.000 | 0.011 | 0.000 | 2.334 | 0.828 | 0.000 | 0.000 | 2.356 | 0.240 | 0.029 | 0.416 |
| hh_cook_oth     | 1.000                                       | 1.000 | 1.000  | 1.000 | 0.000 | 1.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1.000 | 1.000 | 0.000 | 0.000 | 0.438 |
| hh_snt_no       | 0.000                                       | 1.000 | 0.000  | 1.000 | 1.000 | 1.000 | 0.000 | 0.000 | 0.677 | 0.364 | 0.515 | 1.000 | 0.000 | 0.328 | 0.091 | 0.286 | 0.454 |
| hh_ecn_no       | 0.627                                       | 0.118 | 0.526  | 0.000 | 0.266 | 0.000 | 0.617 | 0.000 | 1.790 | 0.297 | 0.563 | 0.005 | 1.387 | 0.424 | 0.752 | 0.176 | 0.472 |
| hh_snt_ul       | 0.681                                       | 0.921 | 0.395  | 0.502 | 0.604 | 0.253 | 0.824 | 0.899 | 0.266 | 0.552 | 0.664 | 0.648 | 0.237 | 0.220 | 0.517 | 0.321 | 0.532 |
| hh_memb_rabr    | 0.491                                       | 0.378 | 0.649  | 0.647 | 0.507 | 0.448 | 0.461 | 0.812 | 0.416 | 0.481 | 0.507 | 0.698 | 0.000 | 0.476 | 0.832 | 0.861 | 0.541 |
| hh_head_c       | 1.000                                       | 1.000 | 0.884  | 1.000 | 1.000 | 0.000 | 0.000 | 0.000 | 1.000 | 0.000 | 1.000 | 0.000 | 0.000 | 1.000 | 0.000 | 1.000 | 0.555 |
| hh_cook_elc     | 0.000                                       | 0.771 | 0.7497 | 0.605 | 0.000 | 0.000 | 0.000 | 0.000 | 1.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.248 | 0.000 | 1.624 | 0.734 |
| hh_head_b       | 1.000                                       | 1.000 | 0.000  | 0.000 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.750 |
| hh_wt_tap       | 1.000                                       | 0.000 | 1.000  | 0.000 | 1.000 | 0.009 | 1.000 | 0.000 | 1.000 | 1.709 | 1.000 | 0.000 | 1.000 | 2.183 | 1.000 | 0.124 | 0.752 |
| hh_sh_wrk_ind   | 1.105                                       | 1.530 | 0.561  | 0.070 | 0.000 | 0.000 | 1.049 | 1.205 | 0.844 | 0.581 | 1.314 | 1.371 | 1.322 | 1.482 | 0.415 | 1.298 | 0.884 |
| hh_head_wrk_ind | 1.204                                       | 1.624 | 0.872  | 0.540 | 0.231 | 0.207 | 0.829 | 1.364 | 0.812 | 0.848 | 1.045 | 1.199 | 1.188 | 1.484 | 0.661 | 1.532 | 0.977 |

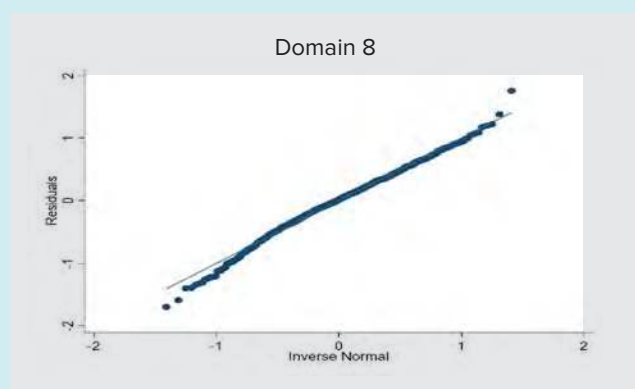
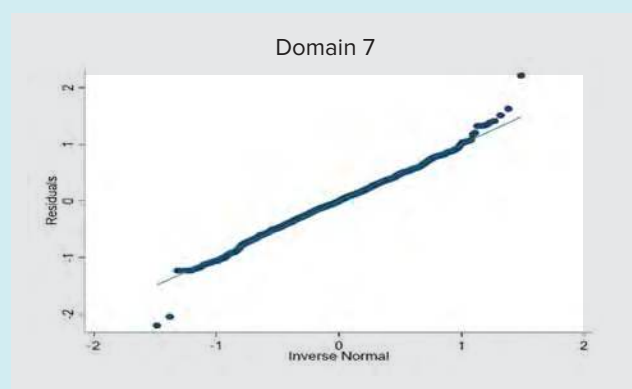
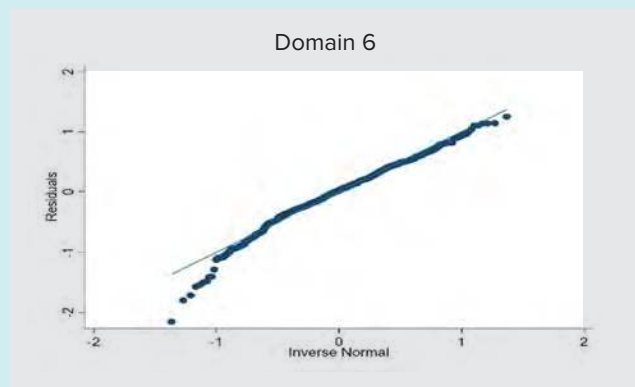
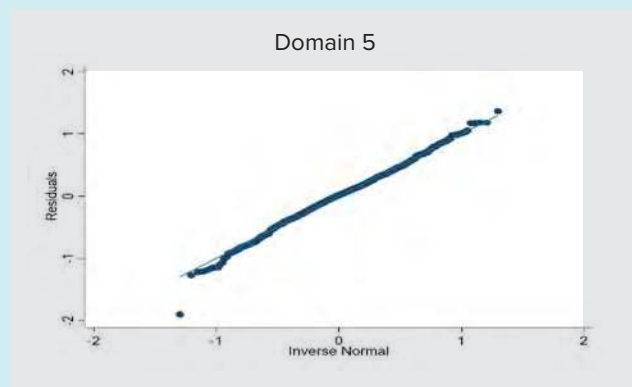
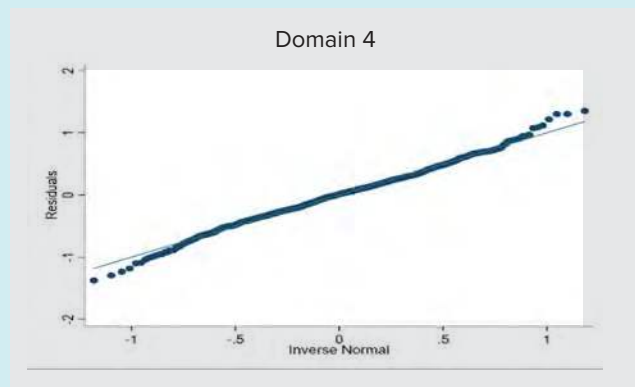
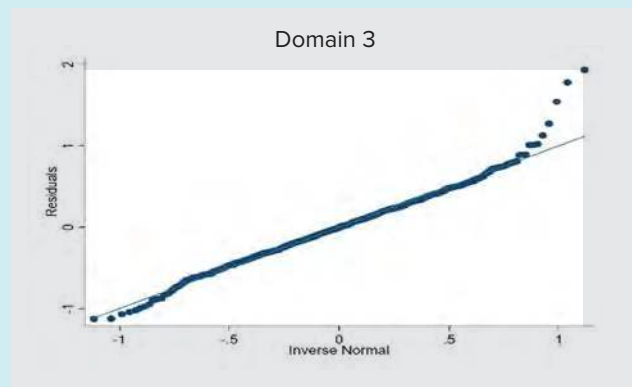
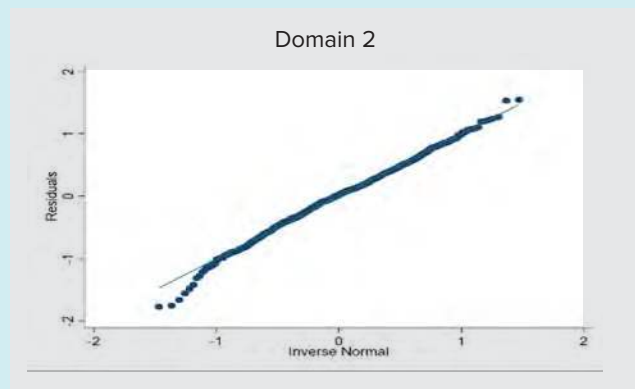
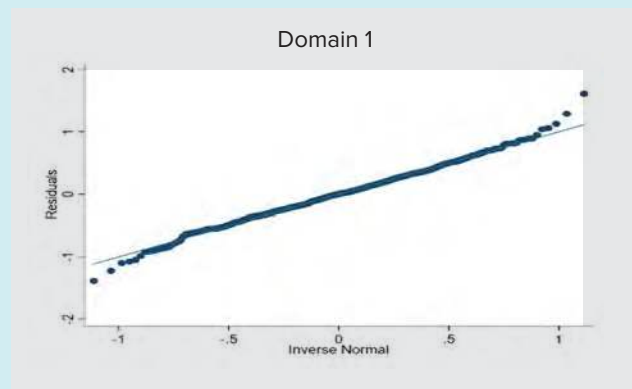
**ANNEX 5****NORMALITY OF TRANSFORMED DEPENDENT VARIABLE FOR MODELING**



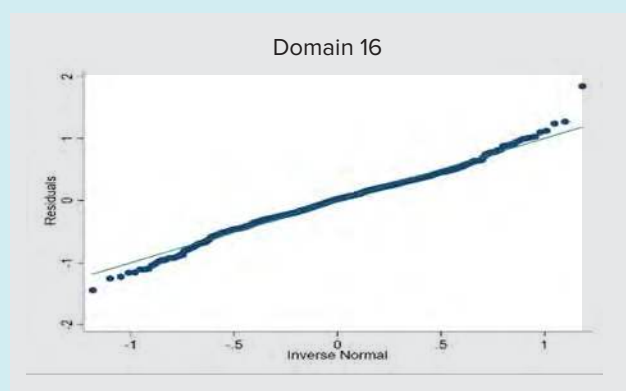
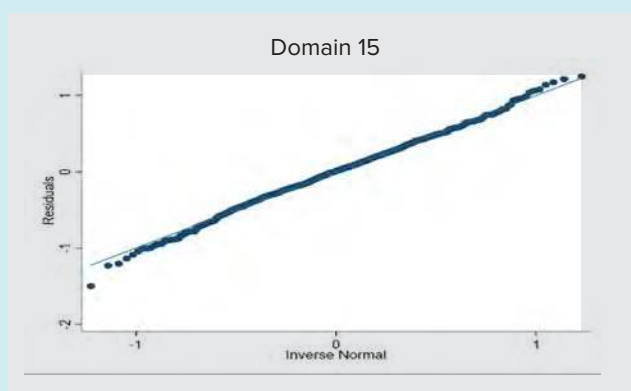
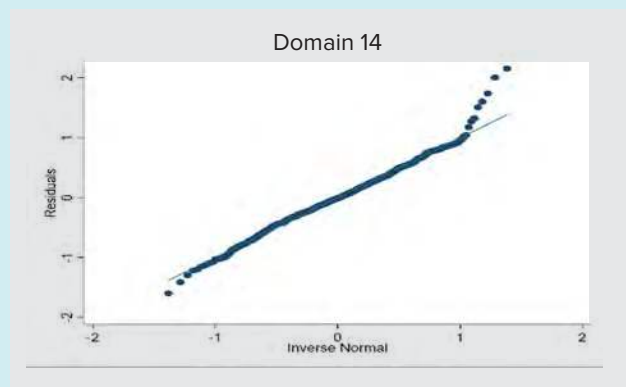
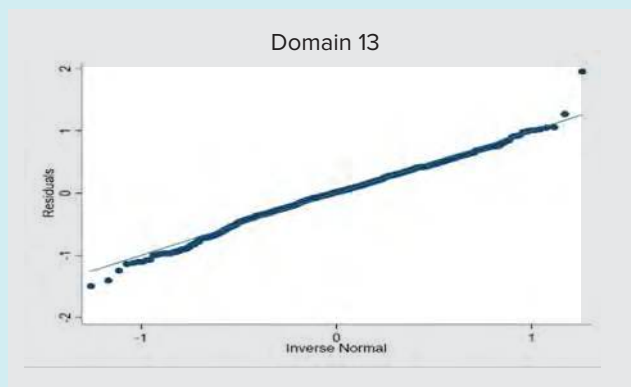
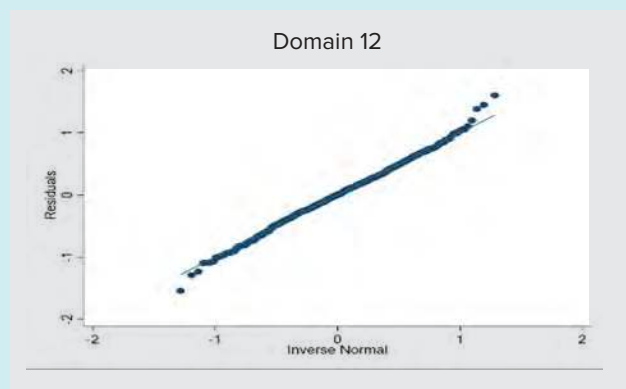
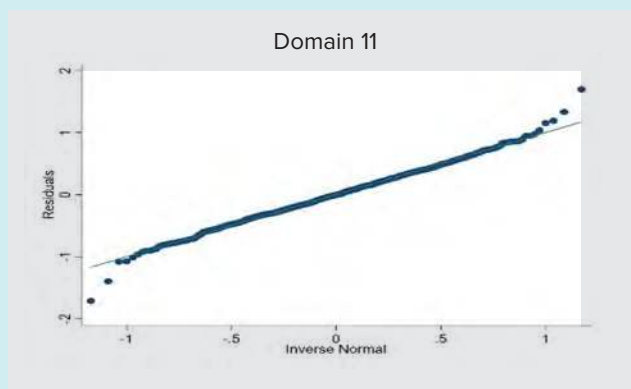
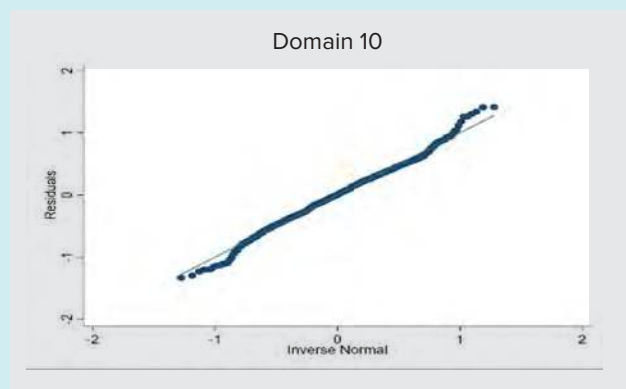
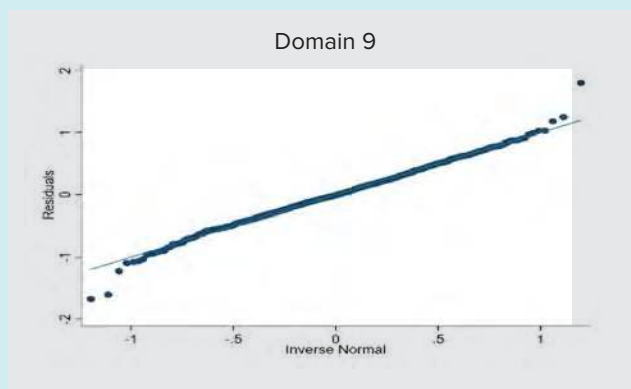
**ANNEX 6****SAMPLE QUANTILES OF PREDICTED RANDOM EFFECTS VS. THEORETICAL NORMAL DISTRIBUTION, NORMAL Q-Q**

ANNEX 6: SAMPLE QUANTILES OF PREDICTED RANDOM EFFECTS VS. THEORETICAL NORMAL DISTRIBUTION, NORMAL Q-Q (Continued)



**ANNEX 7****SAMPLE QUANTILES OF RESIDUALS AGAINST THEORETICAL QUANTILES OF A NORMAL DISTRIBUTION, NORMAL Q-Q**

ANNEX 7: SAMPLE QUANTILES OF RESIDUALS AGAINST THEORETICAL QUANTILES OF A NORMAL DISTRIBUTION, NORMAL Q-Q  
(Continued)



**ANNEX 8****OFFICIALS ENGAGED IN POVERTY MAP OF BANGLADESH 2022****1. POVERTY AND LIVELIHOOD STATISTICS (PLS) CELL TEAM, BBS**

| Core Team Members |  |
|-------------------|--|
| 1.                | Mr. Mohiuddin Ahmed <i>MPH</i> , Deputy Director, BBS and Focal Point Officer, PLS Cell, BBS |
| 2.                | Mrs. Farhana Sultana, Deputy Director, BBS   |
| 3.                | Mr. Ashadur Alam Prodhan, Statistical Officer, BBS   |
| 4.                | Mr. S M Anwar Husain, Assistant Statistical Officer, BBS                                     |

**2. THE WORLD BANK (WB) TEAM**

(Not According to Seniority)

|    |  |
|----|--|
| 1. | Ms. Ximena Del Carpio, Practice Manager, Poverty and Equity Global Practice, South Asia Region |
| 2. | Mr. Sergio Olivieri, Senior Economist, Statistician  |
| 3. | Mr. Ayago Esmubancha Wambile, Senior Economist   |
| 4. | Ms. Nethra Palaniswamy, Senior Economist   |
| 5. | Mr. Jaime Estuardo Fernandez Romero, Data Scientist  |
| 6. | Mr. FNU Jonaed, Research Analyst   |
| 7. | Mr. Virgilio Galdo, Consultant   |
| 8. | Mr. Faizuddin Ahmed, Consultant  |

**3. THE WORLD FOOD PROGRAMME (WFP) TEAM**

(Not According to Seniority)

|    |   |
|----|---|
| 1. | Mr. Takahiro Utsumi, Head of Research, Assessment and Monitoring (RAM), WFP               |
| 2. | Ms. Din Ara Wahid, VAM Officer, RAM, WFP  |
| 3. | Mr. Mohammad Mahabubul Alam, Programme Policy Officer, RAM, WFP                           |
| 4. | Ms. Arifeen Akter, Programme Policy Officer, RAM, WFP                                     |
| 5. | Ms. Sanjida Showkat, Programme Policy Officer - Geospatial Analysis and Mapping, RAM, WFP |
| 6. | Ms. Kaniz Fatema, Senior Programme Associate, RAM, WFP                                    |

## ANNEX 9

### VARIOUS COMMITTEE/TEAM: POVERTY MAP OF BANGLADESH 2022

#### 1. STEERING COMMITTEE

(Not According to Seniority)

| Committee Members |  |                  |
|-------------------|--|------------------|
| 1.                | Senior Secretary/Secretary, Statistics and Informatics Division (SID)  | Chairperson      |
| 2.                | Director General, Bangladesh Bureau of Statistics (BBS)                | Member           |
| 3.                | Additional Secretary (Dev.), Statistics and Informatics Division (SID) | Member           |
| 4.                | Representative, Finance Division                                       | Member           |
| 5.                | Representative, IMED, Planning Commission                              | Member           |
| 6.                | Representative, SEI Div., Planning Commission                          | Member           |
| 7.                | Representative, Programming Div., Planning Commission                  | Member           |
| 8.                | Representative, GED, Planning Commission                               | Member           |
| 9.                | Representative, NEC-ECNEC, Planning Commission                         | Member           |
| 10.               | Joint Secretary (Dev), Statistics and Informatics Division (SID)       | Member           |
| 11.               | Director, National Accounting Wing, BBS                                | Member           |
| 12.               | Focal Point Officer, Poverty and Livelihood Statistics (PLS) Cell, BBS | Member           |
| 13.               | Deputy Secretary (Dev-1), Statistics and Informatics Division (SID)    | Member Secretary |

#### 2. TECHNICAL COMMITTEE

(Not According to Seniority)

| Committee Members |   |             |
|-------------------|---|-------------|
| 1.                | Director General, Bangladesh Bureau of Statistics (BBS)             | Chairperson |
| 2.                | Joint Secretary (Dev), Statistics and Informatics Division (SID)    | Member      |
| 3.                | Deputy Director General, Bangladesh Bureau of Statistics (BBS)      | Member      |
| 4.                | Representative, SEI Div., Planning Commission                       | Member      |
| 5.                | Representative, GED, Planning Commission                            | Member      |
| 6.                | Representative, Macroeconomic Wing, Finance Division                | Member      |
| 7.                | Representative, Ministry of Social Welfare                          | Member      |
| 8.                | Deputy Secretary (Dev-1), Statistics and Informatics Division (SID) | Member      |
| 9.                | Director, NAW/Demography and Health/Census/Computer Wing, BBS       | Member      |
| 10.               | Dr. Syed Shahadat Hossain, Professor, ISRT, DU                      | Member      |
| 11.               | Joint Director, NAW, BBS  | Member      |

*Technical Committee (Continued.)*

| Committee Members |  |                  |
|-------------------|--|------------------|
| 12.               | Representative, BIDS   | Member           |
| 13.               | Project Director, PHC 2021 Project, BBS                                | Member           |
| 14.               | Deputy Director/Statistical Officer, PLS Cell, BBS                     | Member           |
| 15.               | Representative, The World Bank, Dhaka Office                           | Member           |
| 16.               | Representative, WFP, Dhaka Office                                      | Member           |
| 17.               | Focal Point Officer, Poverty and Livelihood Statistics (PLS) Cell, BBS | Member Secretary |

**3. REPORT REVIEW TEAM**

(Not According to Seniority)

| Team Members |  |  |
|--------------|--|--|
| 1.           | Dr. Dipankar Roy, Joint Secretary, Statistics and Informatics Division (SID) |  |
| 2.           | Dr. Syed Shahadat Hossain, Professor, ISRT, DU                               |  |
| 3.           | Dr. Mohammad Yunus, Research Director, BIDS                                  |  |

**4. EDITORS FORUM, BBS**

(Not According to Seniority)

| Team Members |  |                  |
|--------------|--|------------------|
| 1.           | Deputy Director General, Bangladesh Bureau of Statistics (BBS)   | Chairperson      |
| 2.           | Director, Agriculture/Census/Computer/Demography and Health/Industry and Labour/FA&MIS/National Accounting Wing, BBS | Member           |
| 3.           | Project Director, PHC 2021 Project, BBS  | Member           |
| 4.           | Focal Point Officer, SVRS in digital platform, BBS   | Member           |
| 5.           | Focal Point Officer, Poverty and Livelihood Statistics (PLS) Cell, BBS   | Member           |
| 6.           | Deputy Director/Statistical Officer, PLS Cell, BBS   | Member           |
| 7.           | Director, SSTI Wing, BBS   | Member Secretary |

**5. REPORT SCRUTINY COMMITTEE OF STATISTICS AND INFORMATICS DIVISION (SID)**

(Not According to Seniority)

| Committee Members |   |             |
|-------------------|---|-------------|
| 1.                | Additional Secretary (Informatics), Statistics and Informatics Division                               | Chairperson |
| 2.                | Joint Secretary (Budget, Financial Management and Audit and ICT), Statistics and Informatics Division | Member      |
| 3.                | Joint Secretary (Informatics), Statistics and Informatics Division                                    | Member      |

| Committee Members |   |                  |
|-------------------|---|------------------|
| 4.                | Deputy Secretary, Developmen-2, Statistics and Informatics Division                     | Member           |
| 5.                | Deputy Secretary, Informatics-1, Statistics and Informatics Division                    | Member           |
| 6.                | Deputy Secretary (Coordination and Reform Section), Statistics and Informatics Division | Member           |
| 7.                | Focal Point Officer, Poverty and Livelihood Statistics Cell, BBS                        | Member           |
| 8.                | Deputy Director, Publication Section, FA & MIS Wing, BBS                                | Member           |
| 9.                | Deputy Secretary, Informatics-2, Statistics and Informatics Division                    | Member Secretary |

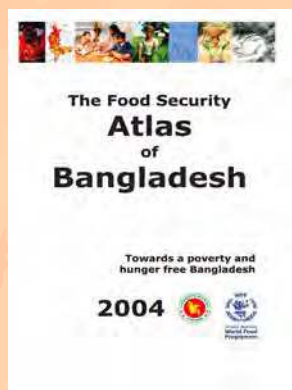
## 6. WORKING COMMITTEE

(Not According to Seniority)

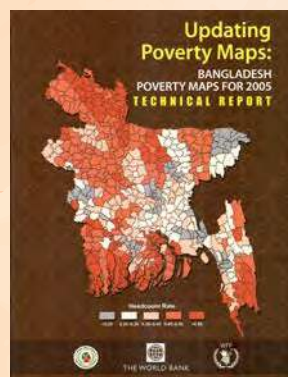
| A. Team Members |  |                  |
|-----------------|--|------------------|
| 1.              | Mr. Mohiuddin Ahmed, MPH, Focal Point Officer, Poverty and Livelihood Statistics (PLS) Cell, BBS | Chairperson      |
| 2.              | Mr. Mohammad Saddam Hossain Khan, Deputy Director, National Accounting Wing, BBS                 | Member           |
| 3.              | Mr. Mohammad Shafiqul Islam, Deputy Director, National Accounting Wing, BBS                      | Member           |
| 4.              | Mr. Md. Alamgir Hossen, Deputy Director, Demography and Health Wing, BBS                         | Member           |
| 5.              | Mr. Muhammad Mizanoor Rahman Howlader, Deputy Director, National Accounting Wing, BBS            | Member           |
| 6.              | Ms. Aziza Rahman, Deputy Director, Industry and Labour Wing, BBS                                 | Member           |
| 7.              | Mr. Abdul Alim Bhuiyan, Deputy Director, Industry and Labour Wing, BBS                           | Member           |
| 8.              | Mr. Tufail Ahmed, Deputy Director, National Accounting Wing, BBS                                 | Member           |
| 9.              | Mr. Md Arif Hossain, Deputy Director, Census Wing, BBS   | Member           |
| 10.             | Mr. Mohammad Ariful Islam, Deputy Director, National Accounting Wing, BBS                        | Member           |
| 11.             | Ms. Asma Akhtar, Deputy Director, Demography and Health Wing, BBS                                | Member           |
| 12.             | Deputy Director/Statistical Officer/Asst Statistical Officer (All), PLS Cell, BBS                | Member           |
| 13.             | Ms. Ismat Zerin, Statistical Officer, Census Wing, BBS   | Member           |
| 14.             | Representative, The World Bank, Dhaka Office   | Member           |
| 15.             | Representative, WFP, Dhaka Office  | Member           |
| 16.             | Mr. Mohammad Rafiqul Islam, Deputy Director, Agriculture Wing, BBS                               | Member           |
| 17.             | Md. Ashadur Alam Prodhan, Statistical Officer, PLS Cell, BBS                                     | Member Secretary |

## ANNEX 10

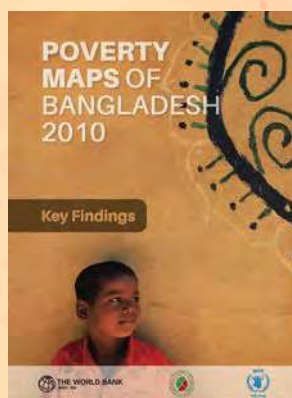
### POVERTY MAP OF BANGLADESH REPORTS BY BBS, WFP AND WB



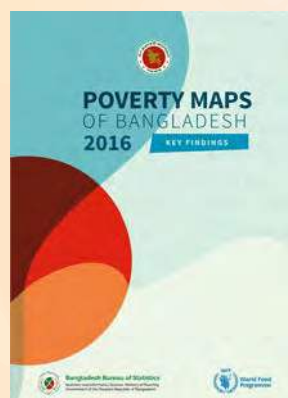
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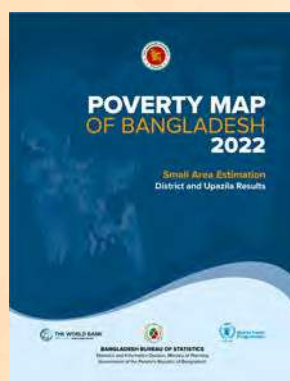
2005



2010



2016



2022







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Programme**

**BANGLADESH BUREAU OF STATISTICS**

Statistics and Informatics Division, Ministry of Planning  
Government of the People's Republic of Bangladesh