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ADB Economics Working Paper Series



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Dalisay S. Maligalig, Sining Cuevas, and Aleli Rosario

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Abstract

The paper developed a methodology for classifying workers into formal and informal employment using the 2005 Bangladesh Labor Force Survey (LFS). Although the 2005 LFS was not designed to collect data for this purpose, it included questions that can be used to determine whether workers are engaged in formal or informal employment. However, the process of identifying the combination of questions that could distinguish between formal and informal workers was hampered by data inconsistencies that were probably brought about by limitations in data processing and validation. Because 3 years have already passed since data processing was done, the most workable approach was to determine which workers are under formal employment, and to assume that the remaining workers are engaged informally.

Results show that 87.71% of the workers in Bangladesh are under informal employment. The highest concentration of informal workers is found in the rural areas (92%). Workers engaged in informal employment are mostly in agriculture; hunting and forestry; wholesale and retail trade; manufacturing; and transport, storage, and communications sectors. On the other hand, formal workers are primarily employed by the government. Women (91.3%) are most likely to be engaged in informal employment than men (86.6%); and women are generally unpaid family workers and in the private household sector. Workers under formal employment are paid better than those under informal arrangements. For each sector, wage differentials between formal and informal workers are significant. Informal workers are found to have significantly less benefits than those with formal employment, except for free meals and free lodging. In particular, self-employed and unpaid workers comprise a little over 20 million of informal workers, although less than 2 million of them enjoy benefits.

I. Introduction

Even though there has been significant poverty reduction in Asia, the 2008 International Labour Organization (ILO) Employment Trends indirectly estimated, using modeling techniques and available survey data from countries, some 487 million workers, 300 million of whom live in Asia, who do not earn enough to lift themselves and their families above the US\$1/day poverty line (ILO 2008). This ILO report also determined that five out of 10 people in the world are in vulnerable employment, being either contributing family workers or own-account workers with a higher risk of being unprotected. These statistics presented a compelling reason for the inclusion of another target in the Millennium Development Goals just 7 years before the target year—achieving full and productive employment and decent work for all, including women and young people. To achieve this target, countries have to consider a shift to a worker-centered approach to poverty reduction and economic development.

Employment is still considered the most reliable vehicle to take the poor out of poverty. However, the very little available evidence from surveys across the world suggests that most of the working poor are engaged in informal employment, which does not usually offer adequate wages, good working conditions, and social protection. Available evidence suggests that only the informal employers who hire others can rise above the poverty threshold (Chen 2006). It is therefore necessary that efforts to alleviate poverty must be focused on the needs and constraints faced by the poor who are engaged in informal employment.

How can governments and the development community help the working poor in the informal sector to move out of poverty? Decent work for the working poor should be promoted as a mechanism to reduce poverty. More and better employment opportunities must be created and efforts to influence the informal enterprises to register and extend benefits to their workers must be amplified.

Such reorientation of economic policies may not be possible, however, unless data on those engaged in the informal sector and in informal employment outside the informal sector are available for economic analysis. More information on wage differentials,

working conditions, social protection, and other issues are needed by policymakers and the development community to make well-informed decisions.

At present, very few countries in Asia regularly collect data on informal employment and the informal sector, which ironically is perceived to be prevalent in many developing countries in Asia. In Bangladesh, for example, the informal sector is roughly estimated to contribute about 64% of total gross domestic product (GDP). This rough approximation was arrived at by applying many assumptions on the composition of various national accounts sectors on existing survey data. The surveys that were used, however, were not really conducted for purposes of studying the informal sector, hence the difficulty of making the standard definitions of informal sector and informal employment operational.

This analyzes informal employment in Bangladesh by utilizing the most recent Labor Force Survey (LFS) that was conducted in 2005. Although this survey was not designed to collect data on informal employment, it included questions that can be used to determine whether workers are engaged in formal or informal employment. However, for those own-account workers and self-employed that can be considered household unincorporated enterprises with at least some market production (HUEMs), there are no questions in LFS that would provide more insights on the HUEM's expenditure, production, capital, and other infrastructure characteristics. Hence, the study was limited only to the comparative analysis of wages, working conditions, and benefits between workers engaged in formal and informal employment. In so doing, the study also explored possible ways in which the LFS questionnaire can be improved and expanded for future survey rounds so that it could be effectively utilized in analyzing the links between employment and poverty and also in the construction of a sampling frame for HUEM surveys.¹

II. Analytical Framework

In studying informal employment, it is important to understand the official international standard definition first. In 1993, the International Conference of Labour Statisticians (ICLS) adopted an international statistical definition of the “informal sector” to refer to employment and production that takes place in small and/or unregistered enterprises. In 2003, the 17th ICLS broadened the definition to include certain types of informal wage employment, employment outside informal enterprises. This larger concept is referred to as informal employment. According to the 17th ICLS, “employees are considered to have informal jobs if their employment relationship is, in law or in practice, not subject to labour legislation, income taxation, social protection or entitlement to certain employment

¹ This is the most cost effective approach for collecting data on the informal sector since it does not require a more comprehensive listing operation of all informal sector production units, which are very difficult to identify in the field and hence, also very costly to construct.

benefits (advance notice of dismissal, severances of pay, paid annual or sick leave, etc.)”.

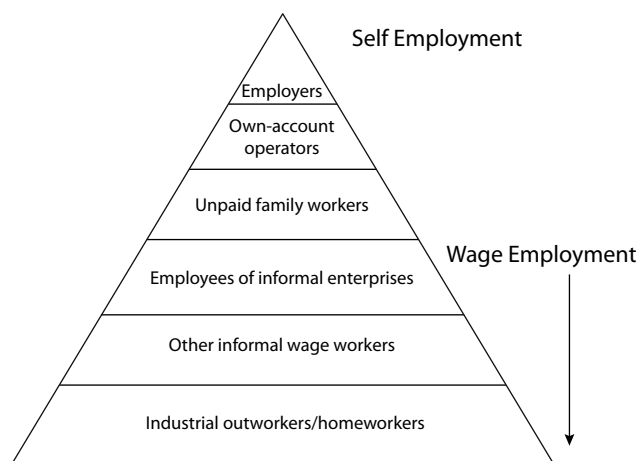
Note that this definition is made on the job level and not at the individual level because a person can simultaneously have two or more jobs.

Informal employment can be classified into two: informal self employment and informal wage employment. Under informal self employment are employers in informal enterprises; own-account workers in informal enterprises; unpaid family workers, and members of informal producers’ cooperatives (Chen 2006). Informal wage employment includes employees without formal contracts, worker benefits, or social protection and are employed either in formal or informal enterprises.²

The dichotomy discussed above suggests that informal employment cuts across all employment status categories: employers, employees, own-account workers, unpaid family workers, and members of producers’ cooperatives (Husmanns 2004). Employment status is critical in understanding the link between informality and poverty. The United Nations Development Fund for Women (UNIFEM) and the global network Women in Informal Economy: Globalizing and Organizing (WIEGO) came up with measurement techniques for measuring the risk of poverty among employed persons in different employment statuses. These studies found that informal agricultural workers have the highest risk of poverty while informal employers are the least susceptible to poverty among nonagricultural workers. These results suggest that the link between informal employment and poverty is discernible only when informal workers are classified by employment status and industry/trade (or national accounts) sectors.

The country studies discussed above also support the segmentation of informal employment, as shown in Figure 1. The segmented “iceberg” in Figure 1 (Chen 2004) represents the hierarchy of the classes of workers in informal employment according to their relative visibility. The employers, who are the most visible among workers in the informal sector, are at the tip and those home workers who are usually neglected in policy making and monitoring are at the bottom. A modification of this iceberg will be introduced in the succeeding section such that the iceberg will also represent the hierarchy of average earnings across the different segments with the height of the segment representing the mean wage or earnings. The employers at the top of the visibility iceberg also have the highest earnings. On the other hand, the home workers at the base of the pyramid have the lowest average wages. Self-employed or own-account workers and other types of workers are placed in between.

² Informal enterprises are household enterprises engaged in the production of goods or services with the primary objective of generating employment and incomes to the persons concerned; which typically operate at a low level of organization, with little or no division between labor and capital as factors of production, and on a small scale. Labor relations—where they exist—are based mostly on casual employment, kinship, or personal and social relations rather than contractual arrangements with formal guarantees.

Figure 1: Segmentation of the Informal Economy

Source: Chen (2004).

Because the 2005 LFS does not have sufficient questions for determining poverty status, the approach of the country studies of the UNIFEM and WIEGO described above cannot be replicated for Bangladesh. However, the average wages across employment status and by industry/trade could be analyzed to explore the links of informality and poverty. Other studies also suggest that there are more women workers in the informal sector who are poor (ILO 2002). There is also a significant gap in wages between men and women as reflected in prior research. This result can be verified by comparing the wage differentials of men and women across national accounts sector and employment status.

Workers, whether those in the formal or informal sector, encounter the same family/personal issues that often undermine their well-being and livelihood: illness, property loss, disability, old age, and death. But because of the very nature of informal employment, informal workers do not enjoy the same social protection mechanisms that come with formal employment. Also, in general, informal workers do not have job security and received very little benefits from employers. To validate these perceptions, comparative analysis of wages, benefits, and working conditions between formal/informal workers by employment status can be undertaken. These results will be informative on the risks faced by informal workers and could also become the basis for designing appropriate social and legal protections for the informal workforce.

The analysis described above is performed on Bangladesh's 2005 LFS, although the questionnaire itself (see Appendix 1) and sample questionnaire were not designed to capture informal employment or informal sector data. In particular, the set of questions as recommended by the United Nations Interregional Cooperation on the Measurement

of Informal Sector and Informal Employment³ (see Appendix 2) to screen for informal employment or any other equivalent set was not applied. However, there are some questions that were not specifically formulated for this purpose but could be used for identifying informal workers. Hence, the internationally accepted concepts of informal employment and employment status are applied despite these limitations. This process will identify the pitfalls in the current questionnaire design that should be minimized in the next LFS round. The pitfalls are documented and resolution of which are formulated as inputs to the questionnaire design for the next LFS. Moreover, as an additional output of the data analysis, the issues that were encountered in analyzing the data, such as out of category responses and other data validation issues, are identified and utilized.

III. Methodology

The first step in the implementing the analytical framework described above on the 2005 LFS was to identify the employed and unemployed population by applying the ILO definition. The questions from the LFS questionnaire that could be used to apply the ILO concept of employment were used to filter the appropriate respondents and properly classify them. It is critical to correctly distinguish those included and not included in the labor force, since the survey included all adult respondents in the sample household. Moreover, these estimates will be the basis of further examination of the dataset, thus, should coincide with the estimates published by the Bangladesh Bureau of Statistics (BBS).

The queries used to determine the labor force are the ones pertaining to having work/job and those concerned about the actions taken to look for a job, specifically, Questions (Q) 4.1, 4.2, 8.2, 8.3, and 8.5 (see Appendix 1). The decision matrix in classifying whether one is employed or unemployed is presented in Table 1.

³ The Interregional Cooperation on the Measurement of Informal Sector and Informal Employment is a multiyear and multilateral development account project of the United Nations, with the Economic and Social Commission for the Asia and Pacific as the lead agency, whose main objectives are to increase the availability of data on the informal sector and informal employment, and to improve the calculation of the contribution of informal sector to employment and to gross domestic product.

Table 1: Decision Matrix for Identifying the Employed and Unemployed Persons

| Employment Status | Combination of Answers to Identify Employed and Unemployed Persons | | | | |
|-------------------|--|--|--|---|--|
| | Q4.1 Any economic activity during the last week? | Q4.2 Any economic activity? (If Q4.1 = no) | Q8.2 Tried to find a job during the last week? | Q8.3 Step taken to get a job | Q8.5 Reasons for not looking for a job |
| Employed | 1- yes | | | | |
| | 2 - no | & 1 - yes | | | |
| Unemployed | 2 - no | & 2 - no | & 2 - no | & contact with (1) government recruiting centers (2) NGO recruiting centers (3) Employers (5) Friends/relatives (4) Search in working unit/place Applied (6) based on newspaper advertisement, (7) by internet (8) Others | |
| | 2 - no | & 2 - no | & 2 - no | | & waiting (1) for reappointment (2) to join after appointment |

NGO = nongovernment organization.

Applying the conditions presented in the matrix resulted in the following estimates that fit the official numbers of Bangladesh.

Table 2: Labor Force Estimates, 2005–2006

| Variable | Estimate | | |
|-------------|------------|------------|------------|
| | Total | Men | Women |
| Employed | 47,356,591 | 36,079,828 | 11,276,763 |
| Unemployed | 2,137,672 | 909,144 | 1,228,528 |
| Labor Force | 49,494,263 | 36,988,972 | 12,505,291 |

For those employed, workers are then classified into having either formal or informal employment. Using the 15th and 17th ICLS definitions of the informal sector and informal employment, respectively, as the standard concepts, the 2005 LFS questionnaire was examined to identify the questions that may be used for determining informal employment inside and outside the informal sector. The questions that were identified are presented in Table 3.

Table 3. Screening Questions for Formal/Informal Employment

| |
|---|
| 4.6 What was the main task in which you were engaged most of the time during the last week? Main activity Code _____ |
| 4.12 What was your status in employment where you worked most of the time during the last week? 1– Regular paid employee (household work/irregular laboratory/apprentice) 6– Day labour (Agriculture) 2– Employer 7– Day labour (Non-agriculture) 3– Self-employed 8– Domestic worker (Maid servant) 4– Unpaid-family worker 9– Paid/Unpaid apprentices 5– Irregular paid worker 10– Others |
| 4.13 In which sector did you work during the last week? 1– Government 2– Private formal sector 3– Personal Household 4– Personal Establishment 5– Others |
| 4.14 What was your place of work during the last week? 1– At home/ house compound 6– Factory/Business Institution/Godown (10 and above member) 2– Agriculture land/Farm 7– Government Office 3– Factory/Business Institution/Godown (1-9 member) 8– NGO/other nongovernment organization 4– Restaurant/ Tea stall 9– Others 5– Road/Market /Construction place |
| 4.15 Did you work on full-time or part-time basis during the last week? 1– Full time 2– Part-time |
| 4.16 Did you get any employment or contract letter from the employment where you worked or temporarily absent during the last week? 1– Written contract/Appointment letter 2– Verbal contract 3– Non-contract 4– Unknown |
| 4.17 How do you get the salary/wages? 1– Daily 2– Weekly 3– Monthly 4– Piece rate/work rate 5– Others |
| 4.21 Does the working establishment or industry unit has got any recommendation from the formal authority or from any other formal institution? 1– Yes 2– No |
| 4.22 Does the working unit or establishment keep written accounts for their transaction? 1– Yes 2– No |

HH = household.

Note: All questions were lifted verbatim from the Bangladesh Labor Force Survey 2005–06 Questionnaire.

Cross tabulations of the responses of these questions were carefully examined to validate the responses and to develop a decision matrix similar to Table 1 for determining informal/formal employment. Table 4 presents the combination of questions for which cross tabulations were generated.

Table 4: Combination of Questions from the 2005–06 Bangladesh Labor Force Survey Questionnaire Used for the Cross Tabulation Analysis

| Question | Description | | Question | Description |
|----------|-------------------|--------|----------|-----------------------------|
| Q4.6 | Main Task | versus | Q 4.12 | Employment Status |
| Q4.6 | Main Task | versus | Q 4.13 | Sector of Work |
| Q4.12 | Employment Status | versus | Q 4.13 | Sector of Work |
| Q4.12 | Employment Status | versus | Q 4.14 | Place of Work |
| Q4.12 | Employment Status | versus | Q 4.15 | Period of Employment |
| Q4.12 | Employment Status | versus | Q 4.16 | Type of Contract |
| Q4.12 | Employment Status | versus | Q 4.17 | Mode of Payment |
| Q4.12 | Employment Status | versus | Q 4.21 | Registration/Recommendation |
| Q4.12 | Employment Status | versus | Q 4.22 | Written Accounts |

To interpret the codes in Q4.6 the occupational lists provided by the BBS was used. However, the codes in the survey data file are available as 4-digit codes while the occupational list codes in the data dictionary have either one digit (10 categories), two digits (28 categories), or three digits (117 categories). To resolve this incompatibility, the first two or three digits of the code in the data file were interpreted using the codes in the data dictionary. Using this methodology, cross tabulations of Q4.6 against Q4.12 and Q4.13 were performed. The results, however, revealed mixed generalizations, some acceptable, others questionable.

To illustrate, the respondents classified as legislators and senior officials (using the 3-digit codes are identified as legislators, senior government officials, traditional chiefs and heads of villages, senior officials of special interest) only answered government, private formal sector, and others, as their sectors of employments. There were no respondents from the personal household and personal establishments sectors. Moreover, among the 10 selections of employment status, only two were chosen by these respondents, namely, regular paid employee and self-employed. These outcomes are reasonable, thus verifying the notion that the process implemented was acceptable. Still, further analysis resulted to some debatable conclusions such as:

- (i) Physical and engineering science associate, Life science and health associate professionals, Teaching associate professionals, and the like, classified as unpaid family worker and domestic worker (maid servant)
- (ii) Teaching professionals and Office clerks falling under the day labor (agriculture) employment status

- (iii) Subsistence agricultural and fishery workers and Agricultural, fishery, and related laborers identified as working in the government sector.

The risk of incorrectly classifying the respondents by main task consequently led to the decision of dropping Q4.6 from the questions considered. Table 5 summarizes the remaining inconsistencies that were identified in the examination of cross tabulations described in Table 4.

Table 5: Inconsistencies/Irregularities Identified from Cross Tabulations Described in Table 4

| Cross-tabulated Questions | Examples of Observed Inconsistencies/Irregularities |
|--|--|
| Q 4.12 vs Q 4.13 Employment Status vs. Sector of Work | Employers, self-employed workers, unpaid family workers, and domestic worker (maid servant) who answered government as the sector of work. |
| Q 4.12 vs Q 4.14 Employment Status vs. Place of Work | Unpaid family worker, day labor (agriculture and nonagriculture) who answered government and nongovernment organization as the place of work. |
| Q 4.12 vs Q 4.15 Employment Status vs. Period of Employment | Based on the skipping pattern, Q4.15 should have been administered to paid/salary-based workers, which comprise all employment status except the employers, self-employed, and unpaid family workers. However, a total of 2,008 respondents (unweighted) identified as employers (55), self-employed (1,605), and unpaid family workers (348) provided answers. |
| Q 4.12 vs Q 4.16 Employment Status vs. Type of Contract | Based on the skipping pattern, Q4.16 should have been administered to paid/salary-based workers, which comprise all employment status except the employers, self-employed, and unpaid family workers. However, a total of 1,711 respondents (unweighted) identified as employers (52), self-employed (1,354), and unpaid family workers (305) provided answers. Unpaid family worker, day labour (agriculture and nonagriculture) and domestic worker (maid servant) who answered that they have written contracts of their employment. |
| Q 4.12 vs Q 4.17 Employment Status vs. Mode of Payment | Based on the skipping pattern, Q4.17 should have been administered to paid/salary-based workers, which comprise all employment status except the employers, self-employed, and unpaid family workers. However, a total of 1,896 respondents (unweighted) identified as employers (55), self-employed (1,578), and unpaid family workers (263) provided answers. Regular paid employees and domestic workers (maid servant) who were paid by piece rate/work rate. Day labor (agriculture) and day labor (nonagriculture) who fall under the category weekly and monthly modes of payments. |
| Q 4.12 vs Q 4.21 Employment Status vs. Registration of Establishment | Based on the skipping pattern, Q4.21 should have been administered only to the employers, self-employed, and unpaid family workers. However, a total of 1,243 respondents (unweighted), other than the three intended, provided answers. |
| Q 4.12 vs Q 4.22 Employment Status vs Written Accounts of Establishment | Based on the skipping pattern, Q4.22 should have been administered only to the employers, self-employed, and unpaid family workers. However, a total of 1, 278 respondents (unweighted), other than the three intended, provided answers. Domestic workers who answered “yes” to the question if the establishment they are working in keep written accounts of their transactions. |

These inconsistencies could have stemmed from the questionnaire design, or from the enumeration process. The former could arise because questions and response choices may not have been properly formulated on the basis of standard definitions/concepts. For example, in Q4.12 (Status of Employment), there is a choice item that corresponds to “paid/unpaid apprentices”, a compound choice that is difficult to decompose. It is difficult to assess this type of worker since it can be interpreted as a paid (by wage) assistant, unpaid on the job training assistant without allowance, or unpaid intern with allowance. Basically, the “paid” and “unpaid” workers are deemed to belong in different categories, and should not be classified together. However, it is also possible that the “paid” and “unpaid” terms refer to “allowances” and not to wage payment, thus, this particular grouping. This ambiguity, with a more than one possible interpretation for the particular option, can confuse the respondent and introduce uncertainty in the analysis.

Another example would be choice number “2” in Q 4.13 (Sector of Work) corresponding to private formal sector. It is unclear how the private formal sector is defined, since when cross tabulated with Q4.21 (Registration/Recommendation) and Q4.22 (Written Accounts), the outcomes are contradictory. From the term “formal” sector in the choice title, it is expected that the responses of those who identified themselves working in this sector would be “yes” in both questions. However, of the number⁴ who answered, 41% (based on unweighted number of respondents), replied “no” to Q4.21, while 44% (based on unweighted number of respondents) said that the establishment they work for do not keep written accounts of its transactions. Therefore, either the private formal sector does not coincide with the ILO description of the formal sector, meaning, it is defined differently in the Bangladesh LFS, or the term “formal” in this case was inappropriately applied to choice 2.

On the other hand, there could also be inconsistencies arising from the enumeration process, when skipping patterns were not properly observed. As described in Table 5, even though Q4.15 to Q4.20 (six items) were identified in the questionnaire to be queries for Paid/Salary Based workers only, there were still some employers, self-employed, and unpaid family workers who answered one or more of the six questions. Similarly, while Q4.21 and Q4.22 were exclusive to self-employed, employers, and unpaid family members, there were regular paid workers, irregular paid workers, day laborers (agriculture and nonagriculture), domestic workers, and paid/unpaid apprentices who replied to the queries. Moreover, a number of unpaid family workers provided information on the amount of wage they received (Q4.18 and Q4.19) and the manner (Q4.17) by which they were paid. These results are also indicative of a survey preparation training and data validation system that still have a large room for improvement.

⁴ The nonresponse is not considered.

In light of these inconsistencies and data limitations, identifying the informal workers became a difficult procedure. For example, there were respondents that said they are unpaid family workers or domestic workers but then they also either work in the government, or are paid monthly/weekly, or are working in establishments with written accounts and are registered with the proper authorities (see Table 5). Also, with the existence of the vague choice selections, a substantial number of missing data was recorded in the dataset. This situation resulted to inconclusive classification of workers, since respondents would fall under neither the formal nor informal categories because some conditions were not satisfied. Most of these respondents were regular paid employees who provided no answers on the mode of payment and those employers and/or self-employed who neither answered “yes” nor “no” to the questions on availability of written accounts of business and/or registration of establishments. These respondents are distributed across all sectors of employment. Lastly, because of the option “others” in Q4.12 and Q4.13, two of the key questions used to determine the type of employment, a clear-cut description of some workers became impossible. Hence, with the available LFS dataset and through a series of analysis, the process of setting criteria for identifying formal employment was deemed more practical than determining informal employment based on the informal employment definition and criteria. A mix of enterprise and employment-based criteria were used. Results of the cross tabulations on the listed (eight) queries showed that the items significant or useful for identifying formal sector employment using the 2005 LFS are the following:

- (i) employment status (Q4.12)
- (ii) sector of work (Q4.13)
- (iii) mode of payment (Q4.17)
- (iv) registration of business (Q4.21)
- (v) availability of written accounts of business (Q4.22)

The conditions set in identifying formal employment are presented in Table 6.

Table 6: Decision Matrix for Identifying Formal Sector Employment

| Criteria | Q4.12 Employment Status | Q4.13 Sector of Employment | Q4.17 Mode of Payment | Q4.22 Written Accounts | Q4.21 Registration |
|-------------------|---------------------------|---|-------------------------------|------------------------|--------------------|
| Formal Employment | 1 - Regular paid employee | & 1 - Government & 2 - Private formal sector | & 2 - Weekly & 3 - Monthly | | |
| | 2 - Employer | & 1 - Government & 2 - Private formal sector | | & 1 - yes | |
| | 3 - Self-employed | & 1 - Government & 2 - Private formal sector | | & 1 - yes | |
| | 10 - Other | & 1 - Government & 2 - Private formal sector | | & 1 - yes | |
| | 2 - Employer | & 4 - Personal establishment & 5 - Other | | & 1 - yes | & 1 - yes |
| | 3 - Self-employed | & 4 - Personal establishment & 5 - Other | | & 1 - yes | & 1 - yes |
| | 10 - Other | & 4 - Personal establishment & 5 - Other | | & 1 - yes | & 1 - yes |

In this matrix, the chief factors considered in defining formal workers are:

- (i) For regular paid employees: Their sector of employment and the mode of payment by which wages are received.
- (ii) For employers and self employed workers, as well as those that fall under the “others” category, working in either the government or private formal sector: The existence of written accounts of their businesses and/or whether the business is registered with the proper authorities.
- (iii) For employers and self employed workers, as well as those that fall under the “others” category, working in either private establishments or “other” sector: The existence of written accounts of their businesses and/or whether the business is registered with the proper authorities.

The respondents who were not able to satisfy these conditions were classified as informal workers. With this approach, the informal workers were surmised to be:

- (i) All those who identified themselves to be unpaid family workers, irregular paid workers, day laborers in agriculture, day laborers in nonagriculture, domestic workers, and paid/unpaid apprentices
- (ii) All workers employed in the personal household sector
- (iii) Paid employees working in the government or private formal sector and are NOT paid weekly or monthly

- (iv) Paid employees working in personal establishments and “others” sectors
- (v) Employers, self employed workers, and “other” workers employed in businesses with NO written accounts and/or are NOT registered with the proper authorities

Using this classification, estimates of formal and informal employment in Bangladesh based on the 2005 LFS are summarized in Table 7 below.

Table 7: Formal and Informal Employment Estimates, 2005–2006

| Variable | Estimate |
|---------------------|------------|
| Formal Employment | 5,818,582 |
| Informal Employment | 41,538,009 |
| Total Employment | 47,356,591 |

As defined in Section II, there are five categories of employment status, namely: (i) own-account workers; (ii) employers; (iii) unpaid family workers; (iv) employees; and (v) members of producers’ cooperatives (Husmanns 2004). Meanwhile Chen et al. (2006) have noted that there are both formal and informal employees as well as informal wage workers. Informal employees and wage workers do not have formal contracts, worker benefits, or social protection and may be employed by formal or informal enterprises/employers or by households. With the data limitations described above, these categories were applied to the 2005 LFS with the following resulting employment classes:

- (i) Employees: composed of regular paid employees
- (ii) Employers: composed of employers
- (iii) Own-account workers: composed of self-employed
- (iv) Unpaid workers: composed of unpaid family workers
- (v) Wage workers: composed of irregular paid workers, day laborers in agriculture, day laborers in nonagriculture, domestic workers, and paid/unpaid apprentices

Hence, in addition to the analysis of Bangladesh’s employed population by sector in the national accounts, the study also investigated the formal and informal employment by this revised employment status classification. These classifications and analysis approach is then used to examine the wage differentials between the formal and informal workers.

In computing for the wage differentials, Q4.18 and Q4.19 of the 2005–06 LFS questionnaire were considered, i.e., by combining the responses in the two questions, the total wage per respondent was estimated. Meanwhile, analysis of wage differentials was

conducted by computing for the mean wage of formal and informal workers by class of worker and by industry as classified in the national accounts.

However, it must be mentioned that Q4.18 and Q4.19 are applied only to those respondents who identified themselves to be paid or salary workers or, by class of worker, those categorized as employees and wage workers. But, as in other cases, the skipping pattern for this set of questions was also not followed; employers and own account workers also provided answers. Working on this type of dataset, one needs to make adjustments in data analysis and maximize the use of information available. Thus, though the earnings data of the employers and own account workers may just be products of nonimplementation of (or wrong) skipping patterns, these were still utilized for the wage analysis as no other questions pertaining to income were inquired from the workers who are not paid/salary based.

However, before this decision was reached, various hypotheses on the reasons behind these wage results were presented and discussed. To reiterate, the primary assumption is that the skipping pattern was not followed. Another notion is that the questions themselves were placed in the wrong section and they were intended for all types of workers, hence, they were answered by all possible respondents. Justification for this assumption is the use of the term “earn” in the questions, instead of “wage” or “salary”, which may be applicable to all types of workers. Moreover, of the total employer respondents, 40% or 57 out of the total 184 (unweighted), answered the question. On the other hand, a lower 5.5% (1,576 unweighted) of the total self-employed respondents provided responses on their earnings, which still produced usable data. With the lack of information, however, no definite conclusion may be reached; and due to the significant need for wage/earnings analysis, the total earnings of the employers and own account workers were also gathered from Q4.18 and Q4.19.

In connection to the preceding discussion and in line with the irregularities observed in the dataset, the unpaid family workers also provided answers to questions pertaining to wage/earnings. Aside from the fact that no monetary payments should be received by this class by virtue of its definition as unpaid, respondents answered Q4.18 and Q4.19 which, as mentioned before, are questions intended for the paid/salary workers. The noticeable number of these respondents—185,826 (weighted) and 253 (unweighted) or 1.8% of total unpaid workers—warranted more investigation of the wage data and the associated errors. A possible justification for this case is that estimates were computed from the total monetary value of the “in kind” payment. This idea, however, did not hold much ground since only one respondent, in each of the questions, provided answers for the “in kind” answer choice. In effect, the data shows that all respondents supplied answers to the “in cash” item. On the other hand, the notion cannot be completely excluded because given the data inconsistencies, it is plausible that misinterpretation of answer choices might have also occurred. Unfortunately, we are only confined to make speculations because of our limited ability to confirm or validate most of the assumptions.

Results like these imply problems from data gathering to validation until data processing. However, due to lack of data and because of the conspicuous number of respondents answering questions, it is difficult to ignore these results. Therefore, some of these wage information, though dubiously collected, were still incorporated in the analysis.

It should also be noted that the 2005 LFS utilized a two-stage stratified cluster sampling design called the Integrated Multi Purpose Sample (IMPS) in selecting the sample households and individuals. Clusters of about 200 households each were formed as enumeration blocks for each *zila* (municipality) on the basis of the 2001 Census of Population. These enumeration blocks served as the primary sampling units (PSUs) in IMPS and were classified as urban, rural, and statistical metropolitan areas (SMA). Further geographical stratification was also introduced by classifying the *zila* according to six divisions: Barisabal, Chittagong, Dhaka, Khulna, Rajshahi, and Sylhet. In all, there were 129 strata formed: 64 strata corresponding to 64 rural *zila*; 61 strata classified under urban with the other three, Gazipur, Narayanganj, and Khulna taken together to form one stratum under SMA; and three other SMA strata formed from urban areas with very large population, namely Dhaka, Chittagong, and Rajshahi.

The correct survey weights are critical in getting unbiased estimates from the probability sample survey. However, Maligalig and Barcenas (2008) found that the survey weights in this LFS round was derived as the ratio of total households in the strata (updated as of April 2006) to the sample households instead of the product of the base weight (the inverse of the selection probability) and the adjustments for nonresponse and noncoverage. Because measure of sizes and selection probabilities that were used when the sample households were selected are not available anymore, the comparative analyses performed and reported in the next section were based on the survey weights specified in IMPS. As shown in Maligalig and Barcenas, the use of these incorrect weights would usually lead to biased estimates. However, since the correct survey weights could not be constructed anymore, the only available recourse had to be taken.

In addition to incorrect survey weights, Maligalig and Barcenas (2008) also identified the following issues that were critical to the successful implementation of the LFS survey design:

- (i) The domain was not specified in IMPS and as a consequence, the sample size was not determined following the standard practice. The results, therefore, of the 2005 LFS were limited to the national level and big groups of the population.
- (ii) The number of PSUs and the number of households to be sampled within a PSU were determined subjectively without the benefit of analysis. Selecting 40 households from a PSU with an average size of 200 is not usually practiced since households in a cluster are likely to have similar socioeconomic characteristics.

- (iii) Sample allocation across strata was subjectively implemented causing inequitable allocation. Stratification measures and sample allocation across strata have to be reviewed to improve the efficiency of estimates.

To make the comparative analysis of wages received by the formal and informal workers more critical and informative, the mean wages of workers were examined in the following manner:

- (i) by formal and informal categories (all employed workers) to establish the general idea of the wage discrepancy between the two sectors
- (ii) by class⁵ of workers to identify which class receives the lowest and the highest average wages, and to measure the wage gap between the formal and informal workers
- (iii) by national accounts industry classification to determine which sector provides the lowest and highest mean wages, as well as to identify which industry posts the widest formal–informal wage differential

It was mentioned earlier that workers in informal employment have very limited assurance of regular work while receiving very few benefits. To verify this notion, the estimated formal and informal workers, by class of workers, were cross tabulated with Q4.20, “What benefits are provided other than wages and salaries by employer?” This item provides 12 choices namely: (1) paid holdings or paid leave (including wages and salaries); (2) paid sick leave; (3) bonus; (4) working dress (free of cost); (5) free meals; (6) subsidized meals; (7) free transport; (8) telephone facilities; (9) free lodging; (10) subsidized lodging; (11) others; and (12) no facility is given. The respondents were allowed more than one answer, up to a maximum of six.

Like in the preceding cases of ambiguity in choice selection (i.e., choice 9 in Q4.12) option 12 in this item seems to provide variety of interpretations. One may assume that it means that the worker receives no benefits, or that no particular facility related to work such as telephones, lodging, or transportation is provided, but not necessarily no benefits at all. To clarify this issue, additional procedures were performed, particularly verifying if the first understanding is valid. Thus, the investigation centered on identifying whether the respondents who chose “12 = no facility given” no longer provided other answers to the item. Results showed that of the total 12,280 respondents who answered “12 = no facility given” to Q4.20, only 54 respondents supplied additional responses. Provided that almost all, 99.6%, gave a single answer, it was therefore concluded that the 54 cases were products of error in data processing and that choice “12” signifies “no benefits provided”.

⁵ Class of workers refers to the devised grouping, a combination of Hussmann (2004) and Chen’s (2006) employment classifications presented in the Section II. Class of worker is comprised of the following: employees, employers, own-account workers, unpaid workers, and wage workers.

Thus, working on this assumption, the frequency distribution of formal and informal workers with benefits was computed, together with their corresponding ratios per type of benefit. This analysis showed the discrepancy in the amount of benefits received by formal and informal workers, as well as identified the kinds of benefits usually provided to each kind.

IV. Informal Employment Profile

Based on the 2005 LFS, the unemployment rate in Bangladesh is about 4%. The employed workforce is composed of 47.36 million workers who are predominantly self-employed (42%): while just about as many are either wage or unpaid workers, each comprising 21% of the total. Employees comprise only 13.3% of the employed workforce. By sex, the employed population is primarily comprised of men, at 76.2%, while the unemployed, by women, at 57.5%. Men also have a larger number in all class of workers, except for the unpaid family worker class where 66.0% are women and only 44.0% are men. Table 8 is also indicative of the possibility of substantial informal employment among those employed workers.

Table 8: Labor Force Characteristics in Bangladesh, 2005–2006

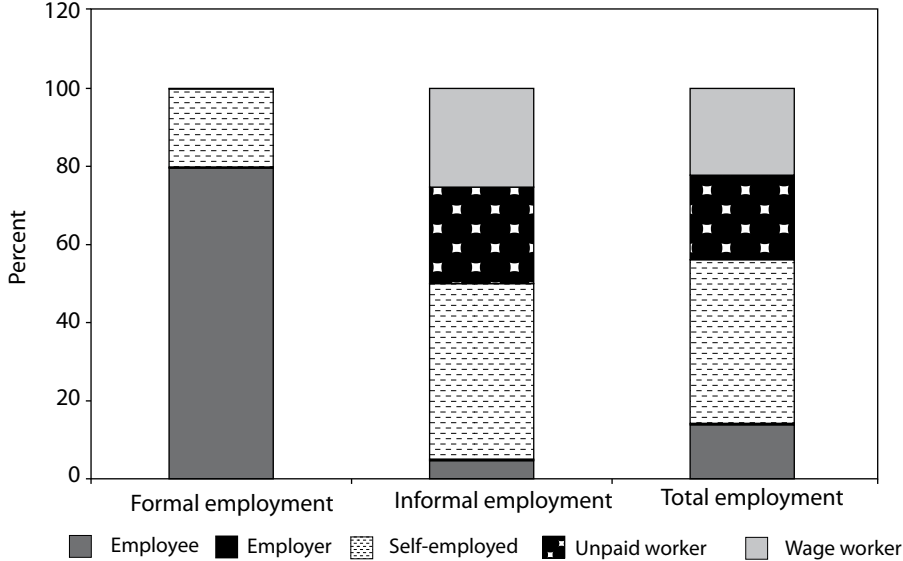
| Labor Force Characteristic | Frequency | | | Percentage* |
|----------------------------|------------|------------|------------|-------------|
| | Men | Women | Total | |
| Employed | 36,079,828 | 11,276,763 | 47,356,591 | 95.7 |
| Employee | 5,248,649 | 1,317,765 | 6,566,414 | 13.3 |
| Employer | 117,178 | 12,916 | 130,095 | 0.3 |
| Self-employed | 18,055,845 | 1,788,717 | 19,844,562 | 40.1 |
| Unpaid Worker | 3,487,707 | 6,779,789 | 10,267,496 | 20.7 |
| Wage Worker | 9,170,448 | 1,377,576 | 10,548,024 | 21.3 |
| Unemployed | 909,144 | 1,228,528 | 2,137,672 | 4.3 |
| Total Labor Force | 36,988,972 | 12,505,291 | 49,494,263 | 100.0 |

* Percent to total labor force.

As Figure 2 shows the employed workforce is predominantly informal. The figure further emphasizes the differences between the formal and informal employment structures: employees chiefly compose the formal (79.5%), while self-employed workers dominate the informal structure (45.0%). Moreover, the formal employment can generally be divided into two classes, the employees and the self-employed. On the other hand, informal employment has at least four distinct groupings.

Among the employees, 70.5% are formally employed while only 29.5% are informal. Conversely, among employers, only 9.3% are engaged in formal employment and 90.7% in informal; among self-employed, 5.9%, formal and 94.1% informal; and among wage workers, only 0.1% are employed formally and 99.9% are working informally.

Figure 2: Employment Sector Composition, by Class of Worker and Nature of Employment



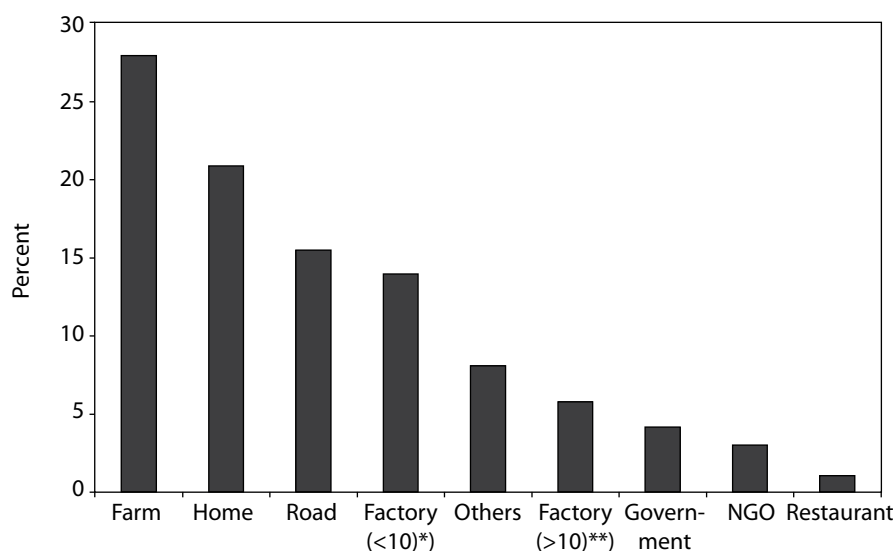
It must be noted, however, that these results are taken from a survey that is not well validated as the previous section has shown. For instance, (refer to Table 5) some respondents identified themselves to be either self-employed or unpaid family workers in Q4.12 (status of employment), but also replied to be working in the government in Q4.13 (sector of employment) when the two questions were cross-tabulated. This is questionable since the logical answer for the same respondent should have been personal household, personal establishment, or others. Inconsistencies of this sort are discussed in full in the preceding section. It is mentioned here for emphasis.

Of the 47.36 million employed, 41.54 million are informal workers (87.71%), while only 5.82 million are engaged in formal employment. With these numbers, it is not surprising that half of the employed population works in the personal household sector, and almost a quarter, in the personal establishment. These two are the sectors that employ 78.5% of the workers.

Table 9: Employment Distribution, by Sector of Work

| Sector of Work | Frequency | Percent |
|------------------------|------------|---------|
| Government | 2,127,198 | 4.5 |
| Private Formal Sector | 4,459,862 | 9.4 |
| Personal Household | 26,405,491 | 55.8 |
| Personal Establishment | 10,742,983 | 22.7 |
| Others | 3,618,972 | 7.6 |
| Total | 47,354,507 | 100.0 |

As shown in Figure 3, of the employed, 27.9% work in farms, 20.8% at home, and 15.4%, in road/market/construction. As these places are typically associated with informal employment, the estimates support the earlier analysis that the employed workforce is chiefly engaged in informal employment. This also suggests that place of work can also be used as an indicator to validate the type of employment.

Figure 3: Employment Distribution, by Place of Work

NGO = nongovernment organization.

* Factory with less than 10 workers.

** Factory with more than 10 workers.

Note: Farm also refers to agricultural land; restaurant includes tea stalls; road includes market and construction place.

Informal workers are largely concentrated in Dhaka, Chittagong, and Rajshahi as shown in Table 10. Rajshahi, however, is 93% informal while Dhaka, with the biggest metropolitan area, has the lowest concentration of informal workers at 83.1%. At the SMA⁶ level, only 67.2% of the workers are informal while in the rural areas in which the agriculture sector dominates, 92% of the workers are informal.

⁶ SMA stands for statistical metropolitan areas, one of the three basic strata by locality (together with urban and rural) in the Bangladesh 2005–06 LFS Integrated Multi-Purpose Sample Design (IMPS). Three *zila*, Gazipur, Narayanganj, and Khulna, were taken together to form one stratum under SMA. In addition other three SMA strata were formed from urban areas with very large population, namely Dhaka, Chittagong, and Rajshahi.

Table 10: Frequency Distribution of Workers in Bangladesh, by Nature of Employment, Division, and Locality

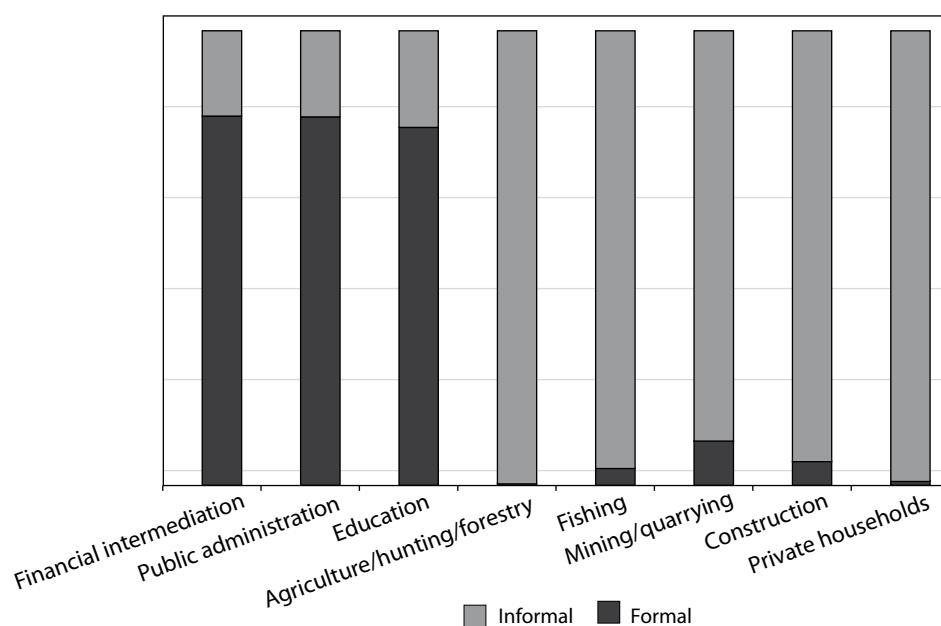
| Area | Nature of Employment | | Total |
|-----------------|----------------------|------------|------------|
| | Formal | Informal | |
| Division | | | |
| Chittagong | 1,415,581 | 7,782,386 | 9,197,967 |
| Dhaka | 2,483,181 | 12,211,304 | 14,694,485 |
| Khuha | 488,485 | 5,069,714 | 5,558,199 |
| Rajshahi | 763,399 | 10,202,852 | 10,966,251 |
| Barisal | 355,552 | 3,029,563 | 3,385,115 |
| Sylhet | 312,383 | 3,242,190 | 3,554,574 |
| Total | 5,818,582 | 41,538,009 | 47,356,591 |
| Locality | | | |
| Rural | 2,899,327 | 33,232,904 | 36,132,231 |
| Urban | 931,116 | 4,223,014 | 5,154,130 |
| SMA | 1,988,139 | 4,082,092 | 6,070,230 |
| Total | 5,818,582 | 41,538,009 | 47,356,591 |

Table 11 indicates that workers with informal employment are mostly in the agriculture, hunting and forestry (52%); wholesale and retail trade (15%); manufacturing (9%); and transport, storage, and communications (9%) sectors. On the other hand, workers with formal employment are mostly in the manufacturing (27%), education (18%), wholesale and retail trade (13%), and public administration and defense (13%) sectors. The Government of Bangladesh employs the largest number of formal workers, a combined 31%, from the education and public administration and defense sectors. Meanwhile, workers with formal employment are least found in the sectors on mining and quarrying; private households; fishing; and electricity, gas, and water (EGW).

Figure 4 shows the distribution of formal and informal workers in selected industries. Only selected industries are represented in the figure and these were chosen on the basis of their overwhelming disparity in the number of workers on a per sector basis. For instance, the ratio of formal sector workers to informal sector workers in the sectors of financial intermediation, public administration and education ranges is at least 80:20. Or, it may be stated that for every five workers in any of the three sectors mentioned earlier, four would have formal employment and only one would have informal employment. In contrast, almost every worker in the agriculture, fishing, mining, construction, and private household sector would have informal employment.

Table 11: Distribution of Type of Workers by Industry

| Industry | Type of Worker | | | |
|--|----------------|------------|------------|------------|
| | Formal | | Informal | |
| | Frequency | Percentage | Frequency | Percentage |
| Agriculture, Hunting, and Forestry | 86,076 | 1.48 | 21,585,741 | 51.97 |
| Fishing | 41,368 | 0.71 | 1,053,834 | 2.54 |
| Mining and Quarrying | 5,002 | 0.09 | 46,046 | 0.11 |
| Manufacturing | 1,554,892 | 26.72 | 3,669,243 | 8.83 |
| Electricity, Gas, and Water Supply | 45,516 | 0.78 | 30,967 | 0.07 |
| Construction | 80,665 | 1.39 | 1,443,677 | 3.48 |
| Wholesale and Retail Trade, Repairs, etc. | 770,471 | 13.24 | 6,337,639 | 15.26 |
| Hotels and Restaurants | 100,163 | 1.72 | 612,070 | 1.47 |
| Transport, Storage, and Communications | 433,156 | 7.44 | 3,542,741 | 8.53 |
| Financial Intermediation | 411,954 | 7.08 | 95,082 | 0.23 |
| Real Estate, Renting, and Business Activities | 66,708 | 1.15 | 171,896 | 0.41 |
| Public Administration and Defense, Social Security | 714,916 | 12.29 | 166,818 | 0.40 |
| Education | 1,028,854 | 17.68 | 277,361 | 0.67 |
| Health and Social Work | 218,841 | 3.76 | 143,268 | 0.34 |
| Other Community, Social and Personal Services | 248,313 | 4.27 | 1,599,045 | 3.85 |
| Private Households with Employed Persons | 7,254 | 0.12 | 761,527 | 1.83 |
| Others | 4,434 | 0.08 | 1,054 | 0.00 |
| Total | 5,818,582 | 100.00 | 41,538,009 | 100.00 |

Figure 4: Percentage Distribution of Workers in Selected Industries in Bangladesh, by Nature of Employment


If employment size were to be used as a gauge for contribution to GDP, then the findings here support the estimates done by the Bangladesh Country Team during their presentation of the Bangladesh Country Paper on Informal Sector and its Measurement during the inception workshop of RETA 6430: Measuring the Informal Sector.⁷ The country team estimated that the wholesale and retail trade, which is largely an informal sector, contributes 12.4% to GDP. This is followed closely by the agriculture, hunting, and forestry sector, which contributes 11.8% to GDP. Together, these two sectors account for 67% of informal sector workers. On the formal sector side, they estimated the manufacturing sector with the biggest share to GDP at 12.5%, followed by education and public administration and defense sectors with a combined share in GDP of 4.8%. These three sectors account for 58% of the workers in the formal sector. Estimates by industry are shown in Table 12.

Table 12: A Rough Estimate of the Size of Informal Sector as a Percent of GDP

| ISIC Sector | Total Share to GDP (%) | Share to GDP (%) | |
|---|------------------------|------------------|----------|
| | | Formal | Informal |
| 1. Agriculture | 16.6 | 1.0 | 15.7 |
| 2. Fishing | 4.7 | 0.7 | 4.0 |
| 3. Mining and Quarrying | 1.2 | 0.8 | 0.4 |
| 4. Manufacturing | 17.6 | 12.6 | 5.0 |
| 5. Electricity, Gas, and Water Supply | 1.6 | 1.6 | 0.0 |
| 6. Construction | 9.2 | 2.8 | 6.4 |
| 7. Wholesale and Retail Trade | 14.2 | 1.4 | 12.4 |
| 8. Hotel and Restaurants | 0.7 | 0.5 | 0.2 |
| 9. Transport, Storage, and Communication | 9.9 | 7.4 | 2.5 |
| 10. Financial Intermediation | 1.7 | 1.7 | 0.0 |
| 11. Real Estate, Renting, and Business Activities | 7.6 | 0.5 | 7.2 |
| 12. Public Administration and Defense | 2.8 | 2.8 | 0.0 |
| 13. Education | 2.5 | 2.1 | 0.5 |
| 14. Health and Social Works | 2.3 | 2.0 | 0.3 |
| 15. Community, Social, and Personal Services | 7.1 | 0.7 | 6.4 |
| Total | 100.0 | 36.9 | 63.6 |

* Reprinted from the Bangladesh Country Paper on Informal Sector and Its Measurement.

V. Comparative Analysis

According to studies in other countries, there is a segment of the informal sector that benefits more by staying informal but there are also vulnerable segments of the informal sector. Employers in the informal sector earn more by staying informal because they do

⁷ On 20–23 May 2008, ADB hosted an inception and planning workshop for its technical assistance project on “Measuring the Informal Sector”. The Bangladesh Country Team was headed by Director K.M. Kabir Ahmed.

not pay taxes nor observe minimum wage laws and consequently, wage workers, unpaid workers, and others receive far less benefits and wages. In general, being employed in the formal sector is more desirable because of better wages, working conditions, and benefits. While analysis between the informal and formal sector is not possible in this paper due to data limitations, the succeeding analysis investigates if these results also apply to informal workers. It looks into the differences of wages and benefits of those under informal and formal employment and whether there is reason to support the notion that women are more vulnerable than men in terms of wages and benefits and type of employment (informal/formal).

A. Wage Differentials

Across industries, Table 13 shows that workers in formal employment are paid better than workers in informal employment. In terms of average weekly wage, the industry groups with the widest wage gaps in absolute number of workers are construction (6,336 taka [Tk]); EGW (Tk5,995); health and social work (Tk4,950); and mining and quarrying (Tk4,599). Conversely, the smallest wage discrepancies are recorded in private households (with employed persons) at Tk1,137; followed by fishing, Tk1,645; and education, Tk2,055.

Meanwhile, formal workers in the Others category received 10 times more wages than the informal workers in the same industry. Other industries with high formal–informal wage ratios are construction, with a ratio of 8:1; mining and quarrying, 5:1; and TSC and agriculture, hunting, and forestry, which both registered 4:1 ratios. The lowest formal–informal wage ratio, on the other hand, was recorded by the education industry, at 1.5: 1. The following industries posted a 2:1 ratio each: (i) financial intermediation; (ii) public administration, defense, and social security; (iii) real estate, renting, and other business activities; (iv) other community, social, and personal services; and (v) health and social work.

The difference in average weekly wages between the informal and formal workers was also tested for statistical significance. These results supported the conclusion of other studies cited in the analytical framework, that workers engaged in formal employment receive better wages on the average. Wage differential testing was also done across industries, the results of which are presented in Table 13. In all industry sectors, workers in formal employment receive significantly better wages than those in informal employment.

Table 13: Mean Weekly Wages of Workers in Bangladesh, by Nature of Employment and Industry Classification (Taka)

| Industry Classification ^a | Mean Weekly Wages | | Difference [^] | p-value ¹ |
|--|-------------------|----------|-------------------------|----------------------|
| | Formal | Informal | | |
| Agriculture, Hunting, and Forestry | 2,737.6 | 652.9 | 2,084.7 | 0.0240 |
| Fishing | 2,535.3 | 890.7 | 1,644.6 | 0.0220 |
| Mining and Quarrying | 5,635.8 | 1,038.1 | 4,597.8 | 0.0000 |
| Manufacturing | 3,881.6 | 1,419.4 | 2,462.3 | 0.0000 |
| Electricity, Gas, and Water Supply | 8,467.9 | 2,472.8 | 5,995.1 | 0.0000 |
| Construction | 7,278.5 | 942.3 | 6,336.2 | 0.0000 |
| Wholesale and Retail Trade, Repairs, etc. | 5,505.4 | 2,077.6 | 3,427.8 | 0.0000 |
| Hotels and Restaurants | 4,601.6 | 1,702.4 | 2,899.2 | 0.0220 |
| Transport, Storage, and Communications | 6,026.7 | 1,622.1 | 4,404.6 | 0.0000 |
| Financial Intermediation | 9,693.3 | 6,047.4 | 3,645.9 | 0.0230 |
| Real Estate, Renting, and Business Activities | 5,732.5 | 2,892.0 | 2,840.6 | 0.0000 |
| Public Administration and Defense, Social Security | 6,882.0 | 3,997.2 | 2,884.9 | 0.0000 |
| Education | 6,251.2 | 4,196.0 | 2,055.1 | 0.0090 |
| Health and Social Work | 8,303.0 | 3,353.0 | 4,950.0 | 0.0000 |
| Other Community, Social and Personal Services | 5,292.7 | 1,683.4 | 3,609.3 | 0.0000 |
| Private Households with Employed Persons | 2,109.2 | 971.9 | 1,137.2 | 0.0110 |
| Others | 6,297.8 | 600.0 | 5,697.8 | 0.0490 |
| Average | 5,880.2 | 1,189.1 | 4,691.1 | |

^a Based on the International Standard Industrial Classification (ISIC) for all Economic Activities Revision 3.1

[^] Mean wages (ormal) - Mean wages (informal)

¹ The p-value of the test is the probability of getting the test statistic (result) or more extreme statistic value from the population(s) being tested assuming that the null hypothesis is true. A p-value of .05, for example, indicates that there is only a 5% chance of getting the same or more extreme test statistic if the null hypothesis is true; hence we say that the test statistic is less likely to have come from the population(s) in which the null hypothesis—which in this case is that there are no differences between the mean wages of formal and informal workers—is true, and therefore, we have to reject the null hypothesis. In statistical parlance, the result is highly significant if the p-value of the test is < 0.01, and significant if the p-value is <0.05. If the p-value is more than 0.05, the null hypothesis is usually accepted and the appropriate conclusion is that there are no significant differences of the mean wages in this case. However, in the social sciences, where measurement issues abound regarding the data, these thresholds are usually lower.

Workers in informal employment receive the highest mean weekly wages in financial intermediation (Tk6047.35), education (Tk4196.04), and public administration (Tk3997.15). These industries, however, have marginal informal employment, with only 1.3% informal workers or just a little over 500,000 out of 41.5 million workers. Apart from “Others”, informal workers earned the least in agriculture (Tk652.93), fishing (Tk890.68), and construction (Tk942.31), which comprise 24.1 million informal workers.

For those with formal employment, the top three highest mean weekly wages are given in the sectors on financial intermediation (Tk9693.27); EGW (Tk8,467.92); and health and social work (Tk8302.99). Note however, that these three industries account only for a mere 11.6% of formal workers. The bottom three sectors with the lowest mean weekly wages are private households with employed persons (Tk2109.16); fishing (Tk2535.27); and agriculture, hunting, and forestry (Tk2737.64); accounting for only 2.3% of formal workers.

The minimum monthly wage for garment workers was adjusted to Tk1,662 in 2006, from Tk950 since 1994 (The Associated Press 2006). Compared with the mean weekly wages for the manufacturing sector, Tk3,882 (formal) and Tk1,419 (informal), the cited minimum monthly wage translating to a weekly wage of Tk416 is really low, considering as well that data for wages were taken in 2005–2006. It should be noted, however, that data for manufacturing showed a range of wages as little as Tk20 to as high as Tk42,000 a week. One possible explanation for the discrepancy is the diverse composition of the respondents in manufacturing in terms of job positions, such that managers, supervisors, and other executive level workers comprised the high wage levels, while less skilled or specialized workers supplied the data on low salary rates. Another possible reason is the variation in subsectors of manufacturing itself; those working in steel, fuel and oil, or cement production, are perceived to receive more than the garment workers. Other possible explanations are the seasonality of informal sector work in the garments industry or possible errors in coding or enumeration. On the former, the survey may have been conducted when the garment industry was not very active. On the latter, since the published minimum monthly wage is way below the computed mean wage data from LFS, there is a strong possibility that responses to wages were provided in terms of monthly, rather than weekly, rates that have been specified in the questionnaire. This conjecture could have been validated in the data processing stage if data ranges were specified in consistency checking. Suspect data could have been verified in the field. However, this type of verification is not possible anymore since the 2005 LFS has long been completed.

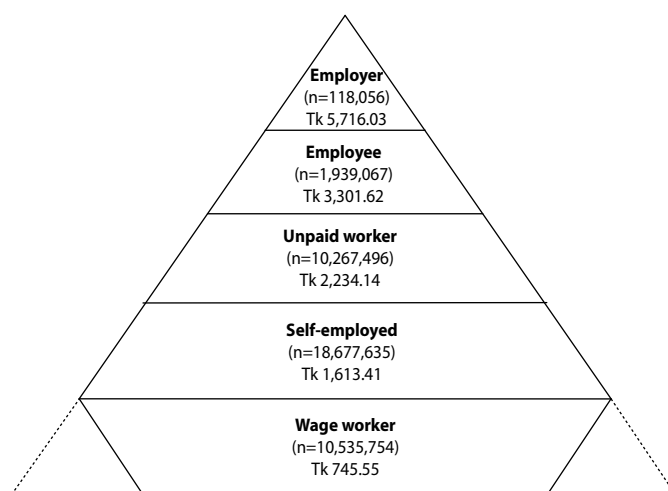
For the following, the wage/earnings of the unpaid family workers were included. Discussion on this set of data was presented in the earlier sections, including the rationalization for using the results for analysis.

An attempt to apply the model of Chen (2004), as presented in Figure 1 in the section on the analytical framework where the segmentation of the informal economy is represented by an iceberg, is shown in Figure 5. However, the model has been modified to show the relative sizes of the different segments, in addition to their relative visibility and earnings. From top to bottom, Chen's model holds true in terms of the mean wage. The most visible or the best known segment, the employers, is at the top of the iceberg, and at the base lies the least visible segment, the wage workers. The diagram also shows similar findings as Chen et al. (2006), that in the informal economy, the self-employed earn less than employees but more than casual wage workers.

But since this modified version also includes representation of relative sizes of the segments instead of a solid triangle base, the diagram illustrates broken lines at the bottom layer of the iceberg. The broken lines represent the relative size of the wage workers as compared to the other segments. If the broken lines were followed, the model would take on the shape of a one-dimensional diamond cut instead of a triangle or an iceberg. Interpreting the modified model in the case of Bangladesh: (i) the higher the visibility of the segment, the higher is its relative wage/earnings; and (ii) in general,

the higher the relative wage/earnings, the lesser is the relative size of the segment. It would be interesting to see if the “cut” (broken lines) in segments would also appear in other informal economies, and at which segment the cut would apply. The second finding may be expounded and tested if the following interpretation will hold merit—that in the formal economy, as a segment becomes more visible, the greater is the requirement for specialization, which also translates to a fewer number or size of the segment and higher wages received.

Figure 5: Segmentation of the Informal Economy of Bangladesh



B. Gender

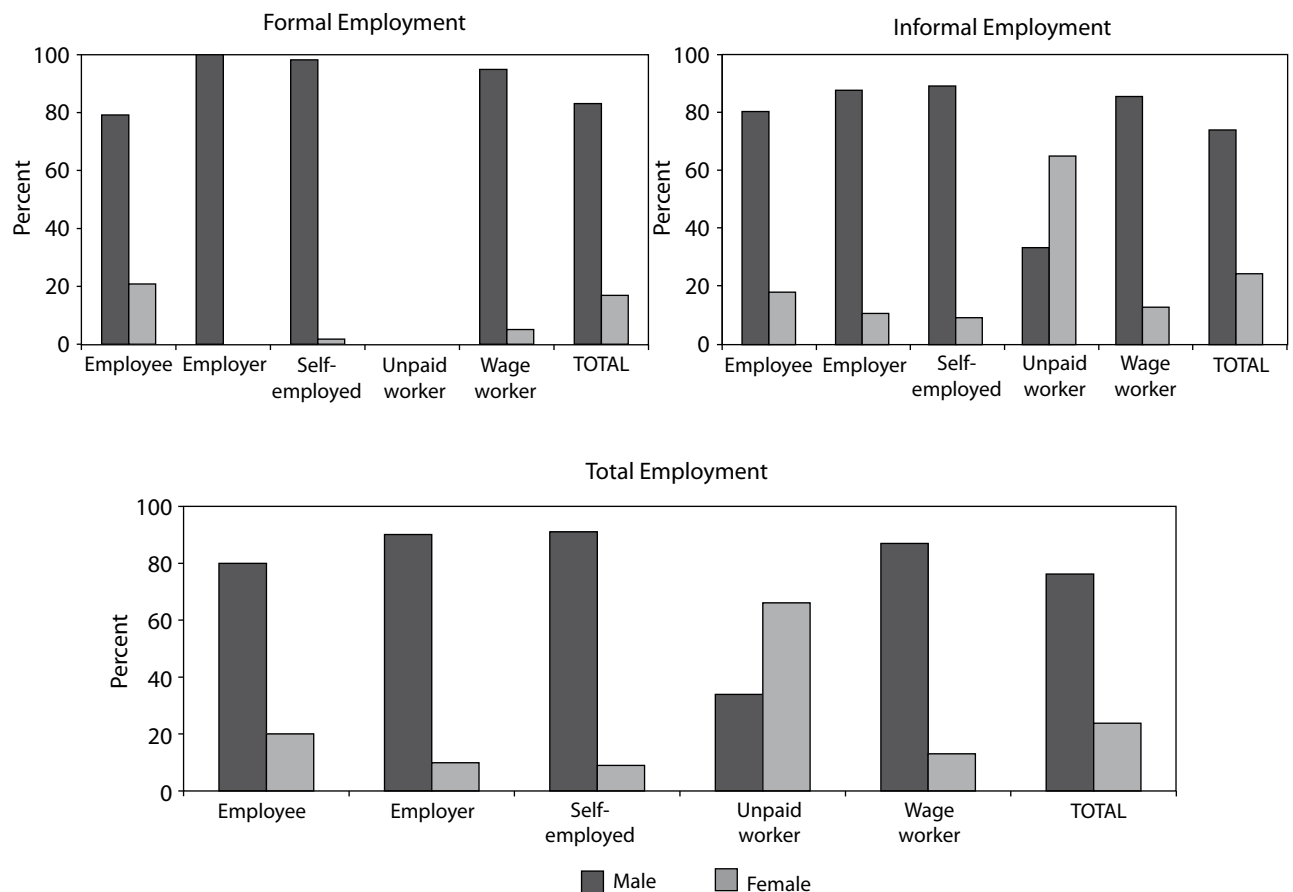
Table 14: Employment by Sex

| Sex | Total Employed | Percent Employed in | |
|--------|----------------|---------------------|----------|
| | | Formal | Informal |
| Male | 36,079,828 | 13.40 | 86.60 |
| Female | 11,276,763 | 8.71 | 91.29 |
| Total | 47,356,591 | 12.29 | 87.71 |

Men outnumber women in the total employed population on a 3:1 ratio. They also dominate over all classes of workers, except in the unpaid worker category, where women are almost double the number of men. Meanwhile, for every male worker in the formal sector there are corresponding six male workers in the informal sector. For females, there are lesser opportunities for formal employment such that for every 11 female workers, 10 would be engaged in informal employment compared to one in the formal.

To further illustrate this point, Figure 6 shows the differences with regard to the participation of women in formal and informal employment. First, women are more visible in informal than formal employment; second, women are represented in all worker classes in informal employment. However, this is not true in formal employment; in fact, employers in this category are almost all men, while at least 11% of informal employers are composed of women. Second, not including the unpaid worker classification, which is completely comprised of informal workers, there is generally a higher percentage of women in every worker class in the informal category than in comparable classes in the formal category. As an example, 9.5% of the self-employed in the informal economy are women, compared to 1.8% of the formal self-employed; and there are 13.1% wage workers who are females in the informal, compared to 5.1% in the formal economy. Lastly, a total of 24.8% of informal workers are women, 7.9 percentage points higher than their share in the formal workforce, at 16.9%.

Figure 6: Percentage of Men and Women in the Employment Sector, by Class of Worker



Focusing on informal employment, Table 15 shows that male informal workers outnumber the females by a ratio of 3:1. The men are mostly self-employed (54%) or wage workers (29%). On the other hand, the women are mostly unpaid workers (66%), outnumbering the men by a ratio of 2:1. Female workers earn less than their male counterparts regardless of their class. On the average, mean weekly wages of male informal workers are higher than those for female informal workers by 31%.

Table 15: Frequency, Percent Distribution, and Mean Weekly Earnings of Informal Workers in Bangladesh, By Gender and Class of Workers

| Class of Worker | Number of Workers | | | | Mean Weekly Earnings (Taka) | |
|-----------------|-------------------|---------|------------|---------|-----------------------------|---------|
| | Male | | Female | | Male | Female |
| | Frequency | Percent | Frequency | Percent | | |
| Employee | 1,582,118 | 5.1 | 356,949 | 3.5 | 3,537.3 | 2,229.9 |
| Employer | 105,139 | 0.3 | 12,916 | 0.1 | 5,832.9 | 4,765.4 |
| Self-employed | 16,909,706 | 54.1 | 1,767,930 | 17.2 | 1,631.6 | 1,390.1 |
| Unpaid Worker | 3,487,707 | 11.2 | 6,779,789 | 65.9 | 2,287.1 | 1,857.5 |
| Wage Worker | 9,158,798 | 29.3 | 1,376,956 | 13.4 | 771.2 | 569.8 |
| Total | 31,243,469 | 100.0 | 10,294,540 | 100.0 | 1,226.5 | 939.7 |

Gender inequality is also prevalent across industries; the males dominate in all industry types, except in the private household classification where 80.5% are females. Meanwhile, at least a quarter (25%) of the workers in the following industries is composed of women: agriculture, manufacturing, education, health, private households, and others (Table 16).

Disparity between sexes is widest in transportation, storage, and communication (TCS), at 96.7 percentage points; followed by EGW, 91.4; real estate, 90.4; WRT, 88.6; and hotel industry, 85.6 percentage points. Conversely, the gap is narrowest in the others classification, at 4.7 percentage points; next is agriculture, 30.8; and health, 32.9 percentage points.

Table 16: Frequency and Percent Distribution of Employed Workers, by Industry

| Industry | Male | | Female | |
|---|-------------------|-------------|-------------------|-------------|
| | Frequency | Percent | Frequency | Percent |
| Agriculture | 14,167,886 | 65.4 | 7,503,931 | 34.6 |
| Fishing | 916,212 | 83.7 | 178,989 | 16.3 |
| Mining and Quarrying | 43,953 | 86.1 | 7,095 | 13.9 |
| Manufacturing | 3,926,292 | 75.2 | 1,297,844 | 24.8 |
| Electricity, Gas, and Water Supply | 73,195 | 95.7 | 3,287 | 4.3 |
| Construction | 1,420,736 | 93.2 | 103,606 | 6.8 |
| Wholesale and Retail Trade, Repairs, etc. | 6,704,797 | 94.3 | 403,314 | 5.7 |
| Hotels | 661,103 | 92.8 | 51,130 | 7.2 |
| Transport, Storage, and Communications | 3,910,042 | 98.3 | 65,854 | 1.7 |
| Financial Intermediation | 392,277 | 77.4 | 114,759 | 22.6 |
| Real Estate | 227,202 | 95.2 | 11,401 | 4.8 |
| Public Administration | 778,058 | 88.2 | 103,675 | 11.8 |
| Education | 963,633 | 73.8 | 342,582 | 26.2 |
| Health | 240,563 | 66.4 | 121,545 | 33.6 |
| Other Community | 1,500,690 | 81.2 | 346,668 | 18.8 |
| Private Household | 150,316 | 19.6 | 618,465 | 80.5 |
| Others | 2,872 | 52.3 | 2,616 | 47.7 |
| Total | 36,079,828 | 76.2 | 11,276,763 | 23.8 |

By industry, women engaged in informal employment still have more participation than those working in formal employment. This is true in most industry types, except in manufacturing, EGW, TSC, and health. Concentrating the analysis on the informal classification, Table 17 shows that there are twice as many male informal workers than females in the agriculture sector. Males likewise outnumber females by more than a million workers in the manufacturing, wholesale, and retail trade, and in the transport and communication sectors. Females outnumber males only in the private households with employed persons sector and others.

In terms of mean weekly wages, men's wages are higher than female wages in 14 out of 17 sectors. Mean wages of female workers are higher than those for male workers only in the mining and quarrying; electricity, gas, and water; and others. Wages are highest for males in the financial intermediation sector (Tk6,753) and for females in the EGW sector (Tk5,600).

Table 17: Percent Distribution and Mean Weekly Wage of Informal Workers by Industry Classification, by Nature of Employment and by Sex

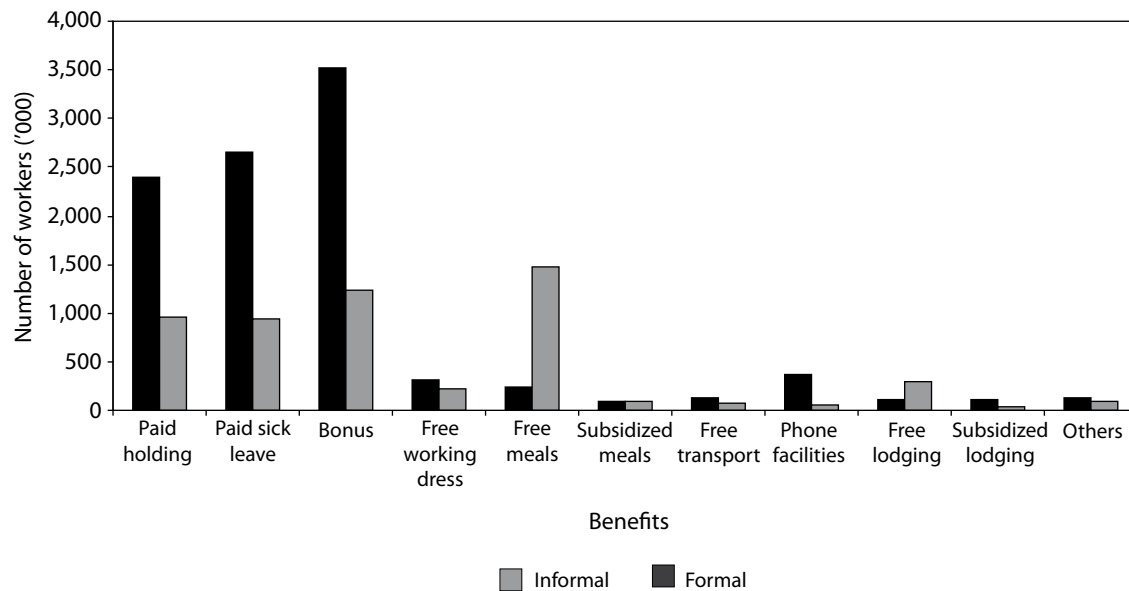
| Industry | Frequency | | Mean Weekly Wage (Taka) | |
|--|------------|------------|-------------------------|--------|
| | Male | Female | Male | Female |
| Agriculture | 14,101,835 | 7,483,906 | 662 | 497 |
| Fishing | 875,830 | 178,004 | 943 | 318 |
| Mining and Quarrying | 38,951 | 7,095 | 977 | 1,315 |
| Manufacturing | 2,760,618 | 908,625 | 1,568 | 907 |
| Electricity, Gas, and Water | 30,487 | 480 | 2,442 | 5,600 |
| Construction | 1,345,488 | 98,189 | 965 | 527 |
| Wholesale and Retail Trade | 5,947,200 | 390,439 | 2,137 | 674 |
| Hotels | 564,101 | 47,969 | 1,813 | 887 |
| Transport, Storage, and Communications | 3,496,282 | 46,459 | 1,624 | 1,485 |
| Financial Intermediation | 72,281 | 22,801 | 6,753 | 3,669 |
| Real Estate | 163,512 | 8,383 | 2,944 | 1,905 |
| Public Administration | 144,594 | 22,224 | 4,426 | 1,746 |
| Education | 184,419 | 92,942 | 4,746 | 3,244 |
| Health and Social Work | 102,190 | 41,077 | 3,639 | 3,143 |
| Other Community | 1,270,202 | 328,843 | 1,741 | 1,021 |
| Private Household | 145,478 | 616,049 | 2,016 | 768 |
| Others | 0 | 1,054 | 0 | 600 |
| Total | 31,243,469 | 10,294,540 | 1226.48 | 939.70 |

C. Benefits

As expected, more workers with formal employment have paid leaves and bonuses. The only benefit that more informal sector workers enjoy than workers in formal employment are free meals and free lodging. Not shown in the figure below are the workers who do not receive any form of benefit, numbering close to 9 million, 95% of which have informal employment. Indeed, this figure illustrates that workers in informal employment have lesser benefits than those in formal employment.

Table 18 shows the employment benefits received by class of worker under formal and informal employment. The bonuses, paid sick leave, and paid holdings are the top types of benefits enjoyed by both formal and informal employees. In fact, there are narrow percentage differences between the formal and informal employees who answered these choices. On the other hand, there is a steep discrepancy between formal, at 4.4%, and informal employees, at 19.1%, who did not receive any benefits.

Among formal own-account workers, the most common benefits received are bonuses, free lodging, and paid sick leaves, while the informal own-account workers' top choice answers are bonuses, paid holdings, and paid sick leaves. Like in the case of employees, there is also a wide percentage difference among formal and informal own-account workers who did not receive any benefits, at 17.0% and 51.1%, respectively.

Figure 7: Comparative Analysis of Benefits Received by Workers: Formal versus Informal


Most of the wage workers under formal employment, at 51.1%, identified “others” as one of the benefits received; followed by free working dresses, at 15.1%; and paid sick leave, at 2.4%. Meanwhile, 12.4% of informal wage workers received free meals, 2.5% have paid sick leaves, and another 2.5% enjoy bonuses.

Unpaid family workers usually receive bonuses (20.6%), free meals (19.0%), paid sick leave (8.8%), and paid holdings (7.8%). It can also be observed that the percentage of unpaid family workers with no benefits received, at 27.7%, is relatively lower than the own-account workers and wage workers. Connecting this section to the wage data for the unpaid family workers, it is possible that the respondents interpreted Q4.18 and Q4.19 as the monetary equivalent of the benefits received. Still this assumption would need further investigation to be verified.

Among worker classes in formal employment, wage workers are most likely not to enjoy any benefit (31.4%), followed by own-account workers (17.0%) and employees (4.4%). Excluding unpaid family workers, the same trend is observed among the worker classes in informal employment. Lastly, subsidized meals and lodging are the least likely benefits given to workers engaged in either formal or informal employment.

Table 18: Benefits Received by Class of Worker and Nature of Employment (percent)

| Type of Benefits | Employee | | Own Account Worker | | Wage Worker | | Unpaid Worker |
|--------------------|----------|----------|--------------------|----------|-------------|----------|---------------|
| | Formal | Informal | Formal | Informal | Formal | Informal | Informal |
| Paid Holding | 22.9 | 22.6 | 3.4 | 11.4 | 0.0 | 1.8 | 7.8 |
| Paid Sick Leave | 25.3 | 19.2 | 10.4 | 10.1 | 2.4 | 2.5 | 8.8 |
| Bonus | 33.3 | 27.6 | 34.4 | 14.7 | 0.0 | 2.5 | 20.6 |
| Free Working Dress | 3.1 | 1.0 | 0.3 | 1.5 | 15.1 | 1.7 | 0.7 |
| Free Meals | 2.2 | 5.4 | 7.3 | 6.4 | 0.0 | 12.4 | 19.0 |
| Subsidized Meals | 0.9 | 0.8 | 1.6 | 0.6 | 0.0 | 0.6 | 2.3 |
| Free Transport | 1.2 | 1.0 | 3.0 | 1.3 | 0.0 | 0.3 | 3.2 |
| Phone Facilities | 3.5 | 1.1 | 6.5 | 0.7 | 0.0 | 0.1 | 3.1 |
| Free Lodging | 1.0 | 1.7 | 16.2 | 0.6 | 0.0 | 2.2 | 5.8 |
| Subsidized Lodging | 1.0 | 0.2 | 0.0 | 0.5 | 0.0 | 0.3 | 0.0 |
| Others | 1.2 | 0.4 | 0.0 | 1.1 | 51.1 | 0.6 | 1.1 |
| No Benefits | 4.4 | 19.1 | 17.0 | 51.1 | 31.4 | 75.0 | 27.7 |

* All unpaid workers are under informal employment.

** No employer under formal employment provided answers, thus, this class of worker was not included in the analysis.

Note: Percent computed using the total number of respondents who answered in all 12 choices per class of worker and nature of employment. Since a respondent may answer more than once to this question, Q4.20, a respondent is likely to be counted more than once in the computation of the total. However, a respondent is limited by its class of worker and nature of employment, thus analysis by these set of conditions is possible.

It is assumed that those respondents who answered "no benefits" are counted only once.

VI. Conclusions and Recommendations

This study was able to develop a methodology for classifying workers under formal or informal employment, making measurement and analysis of informal employment possible using a questionnaire that was not designed for such purpose, and given the many unresolved problems in data processing and validation. The application of the internationally accepted definition of informal employment on the 2005 LFS proved to be difficult because of issues that could not be tackled after the 2005 LFS was conducted and processed. Hence, for analysis to be performed, the formal employment was first identified with the assumption that its complement is all informal employment. With this workable definition, it was found that informal employment dominates Bangladesh's labor market, with 87.71% of the total employed working under informal circumstances. The biggest concentration of informal workers is in the rural areas, with 92%, and the least dense at the SMA level, where 67.2% of the workers are informal.

Workers in informal employment are mostly in the agriculture, hunting and forestry, wholesale and retail trade; manufacturing; and transport, storage and communications sectors. The Government of Bangladesh employs most of the workers under formal employment. As expected, workers with formal employment are consistently better paid than those with informal employment. The mean wages for informal and formal

employees are significantly different by each sector but they are markedly different in construction; in EGW; in mining; and in transport, storage and communication. Agriculture informal workers are paid the least while those under financial intermediation receive the highest wages among informal workers.

In the informal economy, employers have the highest earnings and wage workers, the lowest but those self-employed constitute the biggest segment. Most women are informal workers and they are paid less than men of similar class and industry, except for in the mining and quarrying; EGW; and others. Male informal workers dominate all industries except for personal households.

Informal workers are found to have significantly less benefits than those with formal employment, except for free meals and free lodging. In particular, self-employed and unpaid workers comprise a little over 20 million of informal workers, but less than 2 million of them enjoy benefits.

These results were derived from survey data that are beset with consistency issues and design problems (Maligalig and Barcenas 2008) that cannot be resolved because of the almost 3 years that had elapsed from the conduct and processing of the survey. If this survey had just been processed and the inconsistencies properly identified then supervisors and enumerators could have gone back to respondents to verify suspect data. It is rather unfortunate, however, that this process of verification cannot be done anymore. Moreover, correct selection probabilities cannot be specified because the selection processes were not properly documented. Because of these, the results of this survey will be continuously questioned, discounting the value of the results that were obtained from the survey.

To ensure that surveys, which are usually very expensive to conduct, are utilized to their fullest, surveys should be designed, conducted, and processed following standards that have been tested and accepted. In this case, if analysis of informal employment is one of the objectives of the survey, the questions that have been tested to screen for informal employment should be incorporated. Examples of such questions are in Appendix 2. In general, the questionnaire should be designed to fulfill the objectives of the survey. Questions and response choices should be formulated within the analytical framework of the study. These questions and choices should add clarity and not confuse data users. Skipping patterns can be properly introduced to reduce the response time. To ensure that the questionnaire has comprehensive coverage of the objectives of the survey, this should be tested in the field, and the results should also be processed. This pretest can also be a time and motion study that will give survey managers an indication of how much time an enumerator needs to administer a questionnaire and what steps should be done by supervisors to ensure the proper administration of the survey questionnaire.

Manuals for enumerators and supervisors should be developed to anticipate and address issues that may occur in the field such as clarification of concepts and terminology, refusal to provide answers, incomplete answers, etc. The manuals should include clear definitions of all concepts and terminologies that are used in the questionnaire, probing questions that have tested to elicit responses, procedures for replacing sample households that cannot be located, among others. These manuals are necessary survey instruments for reducing data issues such as those identified in the methodology section and consequently, for controlling nonsampling errors that occur in the field.

Another measure that can reduce suspect data is a good training program for enumerators and supervisors in which all facets of the questionnaire and procedures for manual edits and completeness checks are clearly explained.

If some errors are not identified in the field, they can also be screened during the data validation stage, when usually data have been entered into an electronic file that can automatically be reviewed against preset business rules. In this stage, various types of data checks are applied. For questions with a clear set of choice answers, then checks can be applied on acceptable answer codes. Otherwise, acceptable data range (for weekly wage for example) can also be set. Known relationships of questions/responses can also be reviewed. For example, unpaid workers should not have wages. This business rule can easily be built into the data validation stage. Those responses that are suspect can be checked against the questionnaires and if needed, enumerators can return to the respondents for verification.

Care must be given to the survey sampling design and estimation procedures. The former, if done correctly, guarantees that conclusions drawn from the survey will also apply to the whole population. Sampling errors of major characteristics or indicators must be derived to give an indication of the reliability of the survey. Correct survey weights must be used to ensure unbiased estimates.

Appendix 1: Annual Labor Force Survey, 2005–06 Questionnaire

Team: Govt. of the People's Republic of Bangladesh Confidential
 Bangladesh Bureau of Statistics (Personally given data will not be disclosed)
 Quarter: Industry and Labour Wing
 Parisankhyan Bhaban
 Round: E-27/A, Agargaon, Dhaka-1207. DPC No.
 (For office use only)

Annual Labour Force Survey, 2005–06

| Section-1: Identification of the Sample Area | | |
|--|------|---|
| Sample Area Particulars | Name | Code No. |
| Region | | <input type="text"/> <input type="text"/> |
| Zila | | <input type="text"/> <input type="text"/> |
| Upzila/Thana | | <input type="text"/> <input type="text"/> |
| Union/Ward | | <input type="text"/> <input type="text"/> |
| Mouza/Mohalla | | <input type="text"/> <input type="text"/> <input type="text"/> |
| Area (Rural-1, Urban-2) | | <input type="text"/> |
| PSU No. | | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> |
| Sample Household No. | | <input type="text"/> <input type="text"/> <input type="text"/> |
| Head of the Household | | |

Description of the Visiting

| Visit | Date | Progress of the Collected Data (Quote the Tick Mark) | | |
|-----------|------|--|---------------|------------|
| 1st visit | | 1- Complete | 2- Incomplete | 3- Refused |
| 2nd visit | | 1- Complete | 2- Incomplete | 3- Refused |

| Investigator & Editor/Coder | I. Name | Signature | Date | Code | |
|---------------------------------|---------|-----------|------|------|--|
| Name of the Interviewer | | | | | |
| Name of the Supervising Officer | | | | | |
| Name of the Editor/Coder | | | | | |

| Section-2: Household/Dwelling Particulars | | | |
|--|--|---|--|
| 2.1 | Ownership of house | | 2.7 Sources of fuel for cooking ? 1- Fire wood 2- Dung/Straw/Leaf 3- Electricity 4- Natural gas (pipe line supply) 5- Cylinder gas 6- Kerosene oil 7- Others (Specify) _____ A. B. |
| | 1- Owned | | |
| | 2- Rent free | | |
| | 3- Rented | | |
| | 4- Less rent/Rent subsidies | | |
| | 5- Others (Specify) _____ | | |
| 2.2 | Type of dwelling household? | | 2.8 C. Toilet facilities 1- Flushed comod toilet 2- Pucca sanitary latrine 3- Ring slab 4- Pucca toilet (non-flushed) 5- Kutcha toilet (permanent/temporary) 6- Other services |
| | 1- Kutcha | | |
| 2- Semi-pacca | | 2.9 Does the household own any of the following ? (Tick one or for consumption more than one of use sametime) 1- Radio/Tape Recorder 2- TV 3- Freeze 4- Telephone 5- Mobile phone 6- Sewing machine 7- Motor cycle 8- Bicycle 9- Others (Specify) _____ 10- None of he above | |
| 3- Pucca | | | |
| 4- Others (specify) _____ | | | |
| 2.3 | Number of living rooms in dwelling ? | | |
| 1- Total number of rooms <input type="checkbox"/> | | | |
| 2- Total number of rooms used <input type="checkbox"/> | | | |
| 2.4 | Source of lighting ? | | |
| 1- Electricity | | | |
| 2- Kerosene oil | | | |
| 3- Others (Specify) _____ | | | |
| 2.5 | Source of drinking water ? | | |
| 1- Tubewell/Pump machine | | | |
| 2- Canal/Rever/Pond | | | |
| 3- Supply water/Tape water | | | |
| 4- Others (Specify) _____ | | | |
| 2.6 | Facility of kitchen room ? | | |
| 1- Inside house | | | |
| 2- Separate/outside the house | | | |
| 3- Others (Specify) _____ | | | |
| 2.10 | II. Household's own land (Land of all members including homestead) | <input type="text"/> <input type="text"/> Acres Decimal | 2.13 III. Main source of income of your household ? 1- Self-employed (agriculture) 2- Self-employed (non-agriculture) 3- Regular employment 4- Day labourer (agriculture/non-agriculture) 5- Pension, dividends, interest, house rent, property income 6- Other sources of income (write properly) _____ |
| 2.11 | IV. Does the household own any on the following activity ? 1- Animal husbandry 2- household basis poultry production 3- Dairy farm 4- Fishing farm 5- Horticulture (nursing) 6- None of the above VII. | | V. |
| 2.12 | VIII. Type of activity household primarily engaged ? 1- Agriculture 2- Manufacturing (small & cottage) 3- Trade 4- Service (government/private sector) 5- Construction/Repairing work 6- Other services (Specify) _____ XI. | | 2.14 VI. The average monthly income of household ? a) Self-employed <input type="checkbox"/> Tk. b) Regular paid employee <input type="checkbox"/> Tk. IX. |
| | | | 2.15 X. The average expenditure of household? <input type="checkbox"/> Tk. |

| Section-3 : Composition of Household | | | | | | | | | | |
|---|--|---|---|---|--|---|---|---|---|--|
| For all Household Members | | | | | | 10 Years and Above | Members for 5 Years and Above | | | |
| Q. → | 3.1 Name of all household members Residing in this household and taking their meals altogether, include the member those who are temporarily absent but to all return within 6 months. Exclude Visitors and strangers. | 3.2 Relation-ship to head of the family/ household | 3.3 Gender 1- Male 2- Female | 3.4 Age (Incompleted years, if less than one year write 00) | 3.5 Religion 1- Islam 2- Hindu 3- Buddhist 4- Christ 5- Others | 3.6 Marital status 1- Unmarried 2- Married 3- Widow/ Widower 4- Divorced 5- Seperated (seperate living) | 3.7 Can you write a letter ? 1- Yes 2- No. | 3.8 What class you have passed (Write education code) | 3.9 Are you recently attending in any education institute? 1- Yes 2- No. | 3.10 Have you received any training? (write training code) |
| Line No. ↓ | | | | | | | | | | |
| 01 | | | | | | | | | | |
| 02 | | | | | | | | | | |
| 03 | | | | | | | | | | |
| 04 | | | | | | | | | | |
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| 07 | | | | | | | | | | |
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| 11 | | | | | | | | | | |
| 12 | | | | | | | | | | |

| | | | | | | |
|-----------------------|-----------------------------|------------------------|--------------------------------|--|---|-----------------------|
| Relation code | 1- Head of the household | 3- Son/daughter | 5- Grand son/grand daughter | 7- Father/mother | 9- Non-relative | |
| (Q. No-3.2) | 2- Husband/wife | 4- Brother/sister | 6- Son in law/ daughter in law | 8- Father in law/ mother in law and others relatives | 10- House servant | |
| Education code | 1- No class had been passed | 3-Class VI– Class VIII | 5- Secondary or equivalent | 7- Graduate or equivalent | 9- Medical/Engineering | 11- Others |
| (Q. No-3.8) | 2- Class 1–Class V | 4- Class IX | 6- Intermediate or equivalent | 8- Post-Graduate or equivalent | 10- Technical education (Technical/vocational etc.) | |
| Training code | 1- No training obtained | 3- Computer | 5- Shorthand/ Typing | 7- Welding/Electrical | 9- Inservice Training | 11- Youth Development |
| (Q. No-3.10) | 2- Vocational/ Technical | 4- Motor Driving | 6- Tailoring/ Garments | | 10- Nursing | 12- Others |

| Section-4 : Current Activity Status 15 Years and Above | | | | | | |
|--|--|---|---|---|---|---|
| Q.No. ↓ | Name → | _____ | _____ | _____ | _____ | _____ |
| | Line No. → | □□ | □□ | □□ | □□ | □□ |
| 4.1 | Did you do any economic activity for at least one hour or more during the last week as paid XII. Worker or for family gain or profit or for own XIII. Use or consumption? 1- Yes (Go to Q. No.-4.3) 2- No. | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 |
| | | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 |
| 4.2 | Even if you did not work during the last week for some reasons, did you have a job attachment or engagement in any economic activity? 1- Yes 2- No. (Go to Section-8) | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 |
| | | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 |
| 4.3 | What is the name of your establishment or industry where you worked most of the time during the last week ? | Name of the institution _____ _____ | Name of the institution _____ _____ | Name of the institution _____ _____ | Name of the institution _____ _____ | Name of the institution _____ _____ |
| 4.4 | What was the type of activity or industry or where you worked or served during the last week or from which you were absent (describing details). | Main activity _____ _____ _____ | Main activity _____ _____ _____ | Main activity _____ _____ _____ | Main activity _____ _____ _____ | Main activity _____ _____ _____ |
| | | Code <input type="checkbox"/> | Code <input type="checkbox"/> | Code <input type="checkbox"/> | Code <input type="checkbox"/> | Code <input type="checkbox"/> |
| 4.5 | What was the position in your occupation you were engaged most of the time in the last week ? | Designation _____ _____ | Designation _____ _____ | Designation _____ _____ | Designation _____ _____ | Designation _____ _____ |
| | | _____ | _____ | _____ | _____ | _____ |

| Q.No. ↓ | Name → | _____ | _____ | _____ | _____ | _____ |
|------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|
| | Line No. → | □□ | □□ | □□ | □□ | □□ |
| 4.6 | What was the main task in which you were engaged most of the time during the last week? <i>(Please describe)</i> | Main activity | Main activity | Main activity | Main activity | Main activity |
| | | | | | | |
| | | | | | | |
| | | Code □ | Code □ | Code □ | Code □ | Code □ |
| 4.6 | What was the main task in which you were engaged most of the time during the last week ? <i>(Please describe)</i> | Main activity | Main activity | Main activity | Main activity | Main activity |
| | | | | | | |
| | | | | | | |
| | | Code □ | Code □ | Code □ | Code □ | Code □ |
| 4.7 | How many hour you were engaged in your main task or job during the last week? | □□□Hour | □□□Hour | □□□Hour | □□□Hour | □□□Hour |
| 4.8 | Were you engaged in any other activity or work without your principal work during the last week? 1- Yes 2- No. (Go to Q. No. - 4.11) | | | | | |
| | | □ 1 | □ 1 | □ 1 | □ 1 | □ 1 |
| | | □ 2 | □ 2 | □ 2 | □ 2 | □ 2 |
| 4.9 | What is the informal work/ occpation? <i>(Please describe)</i> | Informal activity | Informal activity | Informal activity | Informal activity | Informal activity |
| | | | | | | |
| | | | | | | |
| | | Code □ | Code □ | Code □ | Code □ | Code □ |
| 4.10 | How many hour did you work in the secondary activity during the last week? | □□□Hour | □□□Hour | □□□Hour | □□□Hour | □□□Hour |
| 4.11 | In total how many hour did you work in main and secondary activity during the last week? | □□□Hour | □□□Hour | □□□Hour | □□□Hour | □□□Hour |

| Q.No. ↓ | Name → | _____ | _____ | _____ | _____ | _____ |
|------------|---|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| | Line No. → | □□ | □□ | □□ | □□ | □□ |
| 4.12 | What was your status in employment where you worked most of the time during the last week ? | | | | | |
| | 1- Regular paid employee(HH work/irragularLab./apprentice) | <input type="text" value="1"/> | <input type="text" value="1"/> | <input type="text" value="1"/> | <input type="text" value="1"/> | <input type="text" value="1"/> |
| | 2- Employer | <input type="text" value="2"/> | <input type="text" value="2"/> | <input type="text" value="2"/> | <input type="text" value="2"/> | <input type="text" value="2"/> |
| | 3- Self-employed | <input type="text" value="3"/> | <input type="text" value="3"/> | <input type="text" value="3"/> | <input type="text" value="3"/> | <input type="text" value="3"/> |
| | 4- Unpaid family worker | <input type="text" value="4"/> | <input type="text" value="4"/> | <input type="text" value="4"/> | <input type="text" value="4"/> | <input type="text" value="4"/> |
| | 5- Irregular paid worker | <input type="text" value="5"/> | <input type="text" value="5"/> | <input type="text" value="5"/> | <input type="text" value="5"/> | <input type="text" value="5"/> |
| | 6- Day labour (Agriculture) | <input type="text" value="6"/> | <input type="text" value="6"/> | <input type="text" value="6"/> | <input type="text" value="6"/> | <input type="text" value="6"/> |
| | 7- Day labour (Non-agriculture) | <input type="text" value="7"/> | <input type="text" value="7"/> | <input type="text" value="7"/> | <input type="text" value="7"/> | <input type="text" value="7"/> |
| | 8- Domestic worker (Maid servant) | <input type="text" value="8"/> | <input type="text" value="8"/> | <input type="text" value="8"/> | <input type="text" value="8"/> | <input type="text" value="8"/> |
| | 9- Paid/Unpaid apprentices | <input type="text" value="9"/> | <input type="text" value="9"/> | <input type="text" value="9"/> | <input type="text" value="9"/> | <input type="text" value="9"/> |
| | 10- Other (Specify)_____ | <input type="text" value="10"/> | <input type="text" value="10"/> | <input type="text" value="10"/> | <input type="text" value="10"/> | <input type="text" value="10"/> |
| 4.13 | In which scetor did you work during the last week? | | | | | |
| | 1- Government | <input type="text" value="1"/> | <input type="text" value="1"/> | <input type="text" value="1"/> | <input type="text" value="1"/> | <input type="text" value="1"/> |
| | 2- Private formal Sector | <input type="text" value="2"/> | <input type="text" value="2"/> | <input type="text" value="2"/> | <input type="text" value="2"/> | <input type="text" value="2"/> |
| | 3- Personal Household | <input type="text" value="3"/> | <input type="text" value="3"/> | <input type="text" value="3"/> | <input type="text" value="3"/> | <input type="text" value="3"/> |
| | 4- Personal Establishment | <input type="text" value="4"/> | <input type="text" value="4"/> | <input type="text" value="4"/> | <input type="text" value="4"/> | <input type="text" value="4"/> |
| | 5- Other (Specify)_____ | <input type="text" value="5"/> | <input type="text" value="5"/> | <input type="text" value="5"/> | <input type="text" value="5"/> | <input type="text" value="5"/> |

| Q.No. ↓ | Name → | _____ | _____ | _____ | _____ | _____ |
|-------------------------------|---|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| | Line No. → | □□ | □□ | □□ | □□ | □□ |
| 4.14 | What was your place of work during the last week? | | | | | |
| | 1- At home/house compound | <input type="text" value="1"/> | <input type="text" value="1"/> | <input type="text" value="1"/> | <input type="text" value="1"/> | <input type="text" value="1"/> |
| | 2- Agriculture land/Farm | <input type="text" value="2"/> | <input type="text" value="2"/> | <input type="text" value="2"/> | <input type="text" value="2"/> | <input type="text" value="2"/> |
| | 3- Factory/Business Institution/ Godown (1-9 member) | <input type="text" value="3"/> | <input type="text" value="3"/> | <input type="text" value="3"/> | <input type="text" value="3"/> | <input type="text" value="3"/> |
| | 4- Restaurant/Tea stall | <input type="text" value="4"/> | <input type="text" value="4"/> | <input type="text" value="4"/> | <input type="text" value="4"/> | <input type="text" value="4"/> |
| | 5- Road/Market/Construction place | <input type="text" value="5"/> | <input type="text" value="5"/> | <input type="text" value="5"/> | <input type="text" value="5"/> | <input type="text" value="5"/> |
| | 6- Factory/Business Institution/ Godown (10 and above member) | <input type="text" value="6"/> | <input type="text" value="6"/> | <input type="text" value="6"/> | <input type="text" value="6"/> | <input type="text" value="6"/> |
| | 7- Government Office | <input type="text" value="7"/> | <input type="text" value="7"/> | <input type="text" value="7"/> | <input type="text" value="7"/> | <input type="text" value="7"/> |
| | 8- NGO/others Non-govt. organization | <input type="text" value="8"/> | <input type="text" value="8"/> | <input type="text" value="8"/> | <input type="text" value="8"/> | <input type="text" value="8"/> |
| | 9- Other (Specify) _____ | <input type="text" value="9"/> | <input type="text" value="9"/> | <input type="text" value="9"/> | <input type="text" value="9"/> | <input type="text" value="9"/> |
| For Paid/Salary based Workers | | | | | | |
| 4.15 | Did you work on full time or part time basis during the last week ? | | | | | |
| | 1- Full time | <input type="text" value="1"/> | <input type="text" value="1"/> | <input type="text" value="1"/> | <input type="text" value="1"/> | <input type="text" value="1"/> |
| | 2- Part time | <input type="text" value="2"/> | <input type="text" value="2"/> | <input type="text" value="2"/> | <input type="text" value="2"/> | <input type="text" value="2"/> |
| 4.16 | Did you get any employment or contract letter from the employment where you worked or temporarily absent during the last week ? | | | | | |
| | 1- Written contract/Appointment letter | <input type="text" value="1"/> | <input type="text" value="1"/> | <input type="text" value="1"/> | <input type="text" value="1"/> | <input type="text" value="1"/> |
| | 2- Verbal contract | <input type="text" value="2"/> | <input type="text" value="2"/> | <input type="text" value="2"/> | <input type="text" value="2"/> | <input type="text" value="2"/> |
| | 3- Non-contract | <input type="text" value="3"/> | <input type="text" value="3"/> | <input type="text" value="3"/> | <input type="text" value="3"/> | <input type="text" value="3"/> |
| | 4- Unknown | <input type="text" value="4"/> | <input type="text" value="4"/> | <input type="text" value="4"/> | <input type="text" value="4"/> | <input type="text" value="4"/> |

| Q.No. ↓ | Name → | _____ | _____ | _____ | _____ | _____ |
|------------|--|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| | Line No. → | □□ | □□ | □□ | □□ | □□ |
| 4.17 | How do you get the salary/wages? | | | | | |
| | 1- Daily | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 |
| | 2- Weekly | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 |
| | 3- Monthly | <input type="checkbox"/> 3 | <input type="checkbox"/> 3 | <input type="checkbox"/> 3 | <input type="checkbox"/> 3 | <input type="checkbox"/> 3 |
| | 4- Piece rate / work rate | <input type="checkbox"/> 4 | <input type="checkbox"/> 4 | <input type="checkbox"/> 4 | <input type="checkbox"/> 4 | <input type="checkbox"/> 4 |
| | 5- Other (Specify) _____ | <input type="checkbox"/> 5 | <input type="checkbox"/> 5 | <input type="checkbox"/> 5 | <input type="checkbox"/> 5 | <input type="checkbox"/> 5 |
| 4.18 | How much did you earn during the last a. week ? (Day Labour) | | | | | |
| | 1- In cash | Tk. <input type="checkbox"/> | | | | |
| | 2- In kind (in taka) | Tk. <input type="checkbox"/> | | | | |
| | 3- Both in cash and in kind (in taka) | Tk. <input type="checkbox"/> | | | | |
| 4.19 | How much did you earn during the last week ? (Paid worker) | | | | | |
| | 1- In cash (in Tk.) | Tk. <input type="checkbox"/> | Tk. <input type="checkbox"/> | Tk. <input type="checkbox"/> | Tk. <input type="checkbox"/> | Tk. <input type="checkbox"/> |
| | 2- In kind (in Tk.) | Tk. <input type="checkbox"/> | Tk. <input type="checkbox"/> | Tk. <input type="checkbox"/> | Tk. <input type="checkbox"/> | Tk. <input type="checkbox"/> |
| | 3- Both in cash and kind (in Tk.) | Tk. <input type="checkbox"/> | Tk. <input type="checkbox"/> | Tk. <input type="checkbox"/> | Tk. <input type="checkbox"/> | Tk. <input type="checkbox"/> |

| Q.No. ↓ | Name → | _____ | _____ | _____ | _____ | _____ |
|--|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Line No. → | □□ | □□ | □□ | □□ | □□ |
| 4.20 | What benefits are provided other than wages and salaries by the employer? (Answer may be more than one) | | | | | |
| | 1- Paid holding (Including wages and salaries) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 2- Paid sick leave | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 3- Bonus | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 4- Working dress (Free of cost) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 5- Free meals | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 6- Subsidise meals | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 7- Free transports | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 8- Telephone facilities | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 9- Free lodging | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 10- Subsidiary lodging | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 11- Other (Specify) _____ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 12- No facility is given | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| For Self Employed/Employer and Unpaid Family Workers | | | | | | |
| 4.21 | Does the working establishment or industry unit has got any recommendation from the formal authority or from any other formal institution | | | | | |
| | 1- Yes | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 2- No | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4.22 | Does the workign unit or establishment keep written accounts for their transaction? | | | | | |
| | 1- Yes | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 2- No | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| Q.No. ↓ | Name → | _____ | _____ | _____ | _____ | _____ |
|---|--|--|--|--|--|--|
| | Line No. → | □□ | □□ | □□ | □□ | □□ |
| Section 5: Current Activity Status Child 5–14 Years During the Last Week | | | | | | |
| 5.1 | Did you do any economic activity for at least one hour or more during the last week as paid worker or for family given or for profit or for own use or for consumption? 1- Yes (Go to Q.No. 5.3) 2- No | <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> |
| 5.2 | Even if you did not work during the last week for some reasons, did you have a job attachment or engagement in any economic activity? 1- Yes (Go to Q.No. 5.3) 2- No | <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> |
| 5.3 | What is the name of the establishment or industry where you worked most of the time or you were absent for some reasons during the last week ? | Name of the institution _____ | Name of the institution _____ | Name of the institution _____ | Name of the institution _____ | Name of the institution _____ |
| 5.4 | What was the type of your activity where you worked most of the time or absent for some reasons during the last week ? | Main activity _____ _____ Code <input type="checkbox"/> | Main activity _____ _____ Code <input type="checkbox"/> | Main activity _____ _____ Code <input type="checkbox"/> | Main activity _____ _____ Code <input type="checkbox"/> | Main activity _____ _____ Code <input type="checkbox"/> |

| Q.No. ↓ | Name → | _____ | _____ | _____ | _____ | _____ |
|------------|---|---------------|---------------|---------------|---------------|---------------|
| | Line No. → | □□ | □□ | □□ | □□ | □□ |
| 5.5 | What was your designation in the occupation/work where you worked most of the time during the last week ? | Designation | Designation | Designation | Designation | Designation |
| | | | | | | |
| 5.6 | What was the main task or service in your occupation where you worked most of the time during the last week ? | Main activity | Main activity | Main activity | Main activity | Main activity |
| | | | | | | |
| | | Code □ | Code □ | Code □ | Code □ | Code □ |
| 5.7 | What was the status of employment/position where you worked most of the time during the last week | | | | | |
| | 1- Regular paid worker (Except Domestic worker/irregular day labour/excet apprentice) | 1 | 1 | 1 | 1 | 1 |
| | 2- Paid domestic worker | 2 | 2 | 2 | 2 | 2 |
| | 3- Paid casual labour/day labour | 3 | 3 | 3 | 3 | 3 |
| | 4- Paid/Unpaid apprentice | 4 | 4 | 4 | 4 | 4 |
| | 5- Unpaid domestic worker | 5 | 5 | 5 | 5 | 5 |
| | 6- Employer | 6 | 6 | 6 | 6 | 6 |
| | 7- Self-employed | 7 | 7 | 7 | 7 | 7 |
| | 8- Unpaid family worker | 8 | 8 | 8 | 8 | 8 |
| | 9- Other (Specify) | 9 | 9 | 9 | 9 | 9 |

| Q.No. ↓ | Name → | _____ | _____ | _____ | _____ | _____ |
|---|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | Line No. → | □□ | □□ | □□ | □□ | □□ |
| 5.8 | What was your place of work during the last week ? | | | | | |
| | 1- At home/home premise | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 |
| | 2- At employer's home | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 |
| | 3- Factory | <input type="checkbox"/> 3 | <input type="checkbox"/> 3 | <input type="checkbox"/> 3 | <input type="checkbox"/> 3 | <input type="checkbox"/> 3 |
| | 4- Business institution/shop | <input type="checkbox"/> 4 | <input type="checkbox"/> 4 | <input type="checkbox"/> 4 | <input type="checkbox"/> 4 | <input type="checkbox"/> 4 |
| | 5- Farm | <input type="checkbox"/> 5 | <input type="checkbox"/> 5 | <input type="checkbox"/> 5 | <input type="checkbox"/> 5 | <input type="checkbox"/> 5 |
| | 6- Restaurant/Tea stall | <input type="checkbox"/> 6 | <input type="checkbox"/> 6 | <input type="checkbox"/> 6 | <input type="checkbox"/> 6 | <input type="checkbox"/> 6 |
| | 7- Godown | <input type="checkbox"/> 7 | <input type="checkbox"/> 7 | <input type="checkbox"/> 7 | <input type="checkbox"/> 7 | <input type="checkbox"/> 7 |
| | 8- At street/Market | <input type="checkbox"/> 8 | <input type="checkbox"/> 8 | <input type="checkbox"/> 8 | <input type="checkbox"/> 8 | <input type="checkbox"/> 8 |
| | 9- Construction place | <input type="checkbox"/> 9 | <input type="checkbox"/> 9 | <input type="checkbox"/> 9 | <input type="checkbox"/> 9 | <input type="checkbox"/> 9 |
| | 10- Other (Specify) _____ | <input type="checkbox"/> 10 | <input type="checkbox"/> 10 | <input type="checkbox"/> 10 | <input type="checkbox"/> 10 | <input type="checkbox"/> 10 |
| 5.9 | How many hours did you engage in your economic activity during the last week? | □□□Hour | □□□Hour | □□□Hour | □□□Hour | □□□Hour |
| For Regular Paid Children of 5–14 years of Age | | | | | | |
| 5.10 | How much did you earn during the last week? b. c. (Day Labour) | | | | | |
| | 1- In cash | Tk.□ | Tk.□ | Tk.□ | Tk.□ | Tk.□ |
| | 2- In kind (In Taka) | Tk.□ | Tk.□ | Tk.□ | Tk.□ | Tk.□ |
| | 3- Both cash and in kind (In Taka) | Tk.□ | Tk.□ | Tk.□ | Tk.□ | Tk.□ |
| 5.11 | How much did you earn during the last month? (Paid employee) | | | | | |
| | 1- In cash | Tk.□ | Tk.□ | Tk.□ | Tk.□ | Tk.□ |
| | 2- In kind (In Taka) | Tk.□ | Tk.□ | Tk.□ | Tk.□ | Tk.□ |
| | 3- Both cash and in kind (In Taka) | Tk.□ | Tk.□ | Tk.□ | Tk.□ | Tk.□ |
| Section-6 : Education and Current Activities Status 5–30 years | | | | | | |
| 6.1 | Are you currently studying in any educational institute or training institute? | | | | | |
| | 1- Yes, Full time | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 |
| | 2- Yes, Part time | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 |
| | 3- No | <input type="checkbox"/> 3 | <input type="checkbox"/> 3 | <input type="checkbox"/> 3 | <input type="checkbox"/> 3 | <input type="checkbox"/> 3 |

| Q.No. ↓ | Name → | _____ | _____ | _____ | _____ | _____ |
|------------|---|-------|-------|-------|-------|-------|
| | Line No. → | □□ | □□ | □□ | □□ | □□ |
| 6.2 | If the answer of question 6.1 is 'No' than what is the reason for not attending the educational institution or training institute ? | | | | | |
| | 1- Due to unavailability of reliable educational at institution/ training institute | 1 | 1 | 1 | 1 | 1 |
| | 2- Due to incapability of bearing the expenses of education institution or training education | 2 | 2 | 2 | 2 | 2 |
| | 3- For maintaining own livelihood | 3 | 3 | 3 | 3 | 3 |
| | 4- Weak/not so good in studies | 4 | 4 | 4 | 4 | 4 |
| | 5- Unwillingness for training and study/Failure in examination | 5 | 5 | 5 | 5 | 5 |
| | 6- Physical illness/incapability | 6 | 6 | 6 | 6 | 6 |
| | 7- Due to engagement in household dwellings/Due to the work assistance of household dwellings work | 7 | 7 | 7 | 7 | 7 |
| | 8- Worked for wages/salaries (for own family) | 8 | 8 | 8 | 8 | 8 |
| | 9- For household economic activity/For assistance in business institution | 9 | 9 | 9 | 9 | 9 |
| | 10- Engagement in own business institution for earning | 10 | 10 | 10 | 10 | 10 |
| | 11- Unwillingness for education/ Training of the family | 11 | 11 | 11 | 11 | 11 |
| | 12- Others (Specify)_____ | 12 | 12 | 12 | 12 | 12 |
| 6.3 | Did you do any economic or non-economic activity during the last week before or after your study? | | | | | |
| | 1- Yes | 1 | 1 | 1 | 1 | 1 |
| | 2- No | 2 | 2 | 2 | 2 | 2 |

| Q.No. ↓ | Name → | _____ | _____ | _____ | _____ | _____ |
|------------|---|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| | Line No. → | □□ | □□ | □□ | □□ | □□ |
| 6.4 | If the answer of the Question No. 6.3 is Yes then what type of economic or non- economic activity were performed by him during the last week? <i>(Economic activity)</i> | | | | | |
| | 1- Work for wages/salaries | <input type="text" value="1"/> | <input type="text" value="1"/> | <input type="text" value="1"/> | <input type="text" value="1"/> | <input type="text" value="1"/> |
| | 2- Part-time work for payment basis | <input type="text" value="2"/> | <input type="text" value="2"/> | <input type="text" value="2"/> | <input type="text" value="2"/> | <input type="text" value="2"/> |
| | 3- Work in tuition or coaching centre | <input type="text" value="3"/> | <input type="text" value="3"/> | <input type="text" value="3"/> | <input type="text" value="3"/> | <input type="text" value="3"/> |
| | 4- Economic activity of own household <i>(Business, Agricultural work)</i> | <input type="text" value="4"/> | <input type="text" value="4"/> | <input type="text" value="4"/> | <input type="text" value="4"/> | <input type="text" value="4"/> |
| | 5- Self employed/ Self economic activity <i>(Non-Economic activity/ Other activity)</i> | <input type="text" value="5"/> | <input type="text" value="5"/> | <input type="text" value="5"/> | <input type="text" value="5"/> | <input type="text" value="5"/> |
| | 6- Domestic household activity/ taking care of your younger brothers and sisters etc. | <input type="text" value="6"/> | <input type="text" value="6"/> | <input type="text" value="6"/> | <input type="text" value="6"/> | <input type="text" value="6"/> |
| | 7- Taking care of your parents/ relatives | <input type="text" value="7"/> | <input type="text" value="7"/> | <input type="text" value="7"/> | <input type="text" value="7"/> | <input type="text" value="7"/> |
| | 8- Other household chores <i>(Specity)</i> _____ | <input type="text" value="8"/> | <input type="text" value="8"/> | <input type="text" value="8"/> | <input type="text" value="8"/> | <input type="text" value="8"/> |
| 6.5 | How many hour did you actually engage in your economic or other activities during the last week? | | | | | |
| | 1- Economic activity | <input type="text" value="□□□"/> Hour | <input type="text" value="□□□"/> Hour | <input type="text" value="□□□"/> Hour | <input type="text" value="□□□"/> Hour | <input type="text" value="□□□"/> Hour |
| | 2- Non-economic or other activity | <input type="text" value="□□□"/> Hour | <input type="text" value="□□□"/> Hour | <input type="text" value="□□□"/> Hour | <input type="text" value="□□□"/> Hour | <input type="text" value="□□□"/> Hour |

| Q.No. ↓ | Name → | _____ | _____ | _____ | _____ | _____ |
|--|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Line No. → | □□ | □□ | □□ | □□ | □□ |
| Section-7: Engaged in Household Activities, Including Students and for all Other Persons | | | | | | |
| <i>(Those who are not included as active worker in Section No. 4.5 and 6).</i> | | | | | | |
| 7.1 | Did you perform any one/more than one under the following economic activity during the last week? | | | | | |
| | 1- Employed in family farm/ employed in vegetable farm | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 2- Food collection/processing | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 3- Raising of domestic animals/ poultry etc. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 4- Construction of house/repairing works | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 5- Fish production and forestry work etc. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 6- Fuel and water collection. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 7- Small trade sales/purchase etc. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 8- Hotel, Restaurant and grocery work | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 9- Other activities (<i>Sewing, Embroidery, House tutorial work in another household etc.</i>) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 10- Nothing is done. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7.2 | In total works, how many hours did you spend during the last week in any one or than one activity of the above ? | □□□Hour | □□□Hour | □□□Hour | □□□Hour | □□□Hour |
| Section-8: For Unemployed/Vagabond Persons Activity Status of the Age of 15 Years and Above | | | | | | |
| 8.1 | If you did not work during the last 7 days were you prepared for job or searching job? | | | | | |
| | 1- Yes | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 2- No | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8.2 | Did you try to find a job during the last week? | | | | | |
| | 1- Yes | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 2- No (<i>Go to Q. No. 8.5</i>) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| Q.No. ↓ | Name → | _____ | _____ | _____ | _____ | _____ |
|------------|---|---|---|---|---|---|
| | Line No. → | <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> |
| 8.3 | What steps you have taken to get a job? (Mark on maximum four possible answers) | | | | | |
| | 1- Contact with Government Recruiting Centers | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 |
| | 2- Contact with Non-government Recruiting Organization | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 |
| | 3- Direct contact with employers | <input type="checkbox"/> 3 | <input type="checkbox"/> 3 | <input type="checkbox"/> 3 | <input type="checkbox"/> 3 | <input type="checkbox"/> 3 |
| | 4- Searching in working unit, factory gate, working place etc. | <input type="checkbox"/> 4 | <input type="checkbox"/> 4 | <input type="checkbox"/> 4 | <input type="checkbox"/> 4 | <input type="checkbox"/> 4 |
| | 5- Contact with friends/relatives | <input type="checkbox"/> 5 | <input type="checkbox"/> 5 | <input type="checkbox"/> 5 | <input type="checkbox"/> 5 | <input type="checkbox"/> 5 |
| | 6- Applied based on News Paper advertisement | <input type="checkbox"/> 6 | <input type="checkbox"/> 6 | <input type="checkbox"/> 6 | <input type="checkbox"/> 6 | <input type="checkbox"/> 6 |
| | 7- Applied for job by internet | <input type="checkbox"/> 7 | <input type="checkbox"/> 7 | <input type="checkbox"/> 7 | <input type="checkbox"/> 7 | <input type="checkbox"/> 7 |
| | 8- Others (Specify) _____ | <input type="checkbox"/> 8 | <input type="checkbox"/> 8 | <input type="checkbox"/> 8 | <input type="checkbox"/> 8 | <input type="checkbox"/> 8 |
| | 9- Nothing | <input type="checkbox"/> 9 | <input type="checkbox"/> 9 | <input type="checkbox"/> 9 | <input type="checkbox"/> 9 | <input type="checkbox"/> 9 |
| 8.4 | How long you are unemployed ? | <input type="checkbox"/> Month | <input type="checkbox"/> Month | <input type="checkbox"/> Month | <input type="checkbox"/> Month | <input type="checkbox"/> Month |
| 8.5 | Why are you not looking for job or work during last week ? | | | | | |
| | 1- Waiting for reappointment | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 | <input type="checkbox"/> 1 |
| | 2- Waiting for joining after appointment | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 |
| | 3- Tired for searching job, considering unavailability of good job | <input type="checkbox"/> 3 | <input type="checkbox"/> 3 | <input type="checkbox"/> 3 | <input type="checkbox"/> 3 | <input type="checkbox"/> 3 |
| | 4- On study | <input type="checkbox"/> 4 | <input type="checkbox"/> 4 | <input type="checkbox"/> 4 | <input type="checkbox"/> 4 | <input type="checkbox"/> 4 |
| | 5- Engaged in household work | <input type="checkbox"/> 5 | <input type="checkbox"/> 5 | <input type="checkbox"/> 5 | <input type="checkbox"/> 5 | <input type="checkbox"/> 5 |
| | 6- Retired | <input type="checkbox"/> 6 | <input type="checkbox"/> 6 | <input type="checkbox"/> 6 | <input type="checkbox"/> 6 | <input type="checkbox"/> 6 |
| | 7- No need to work | <input type="checkbox"/> 7 | <input type="checkbox"/> 7 | <input type="checkbox"/> 7 | <input type="checkbox"/> 7 | <input type="checkbox"/> 7 |
| | 8- Cannot work (sick, incapable) | <input type="checkbox"/> 8 | <input type="checkbox"/> 8 | <input type="checkbox"/> 8 | <input type="checkbox"/> 8 | <input type="checkbox"/> 8 |
| | 9- Others (Specify) _____ | <input type="checkbox"/> 9 | <input type="checkbox"/> 9 | <input type="checkbox"/> 9 | <input type="checkbox"/> 9 | <input type="checkbox"/> 9 |

Appendix 2: Sample Questions for Determining Informal Employment

For employees only: (to be asked for main job and, where applicable, also for secondary jobs)

Several aspects pertaining to the informality/formality of jobs are covered by the questions. The objective is to be able to analyze nature of informality as well as degree (according to number of conditions that hold) of informality.

QIE1: What is the duration/nature/stability of your employment?

1. Permanent job/business/unpaid family work
2. Short-term or seasonal or casual job/unpaid family work
3. Worked for different employer on day-to-day or week-to-week basis

QIE2: Are the terms of your employment covered by a written contract?

1. Yes, I have a written contract for long-term employment
2. Yes, I have a written contract for short-term employment
3. No, I only have a verbal contract
4. No, I do not have any contract

QIE3: Does your employer pay contributions to the legislated pension fund for you?

1. Yes
2. No
3. Do not know

QIE4: Do you benefit from paid annual leave/holiday leave or from compensation instead of it?

1. Yes
2. No
3. Do not know

QIE5: In case of incapacity to work due to health reasons, would you benefit from paid sick leave?

1. Yes
2. No
3. Do not know

QIE6: In case of birth of a child, would you be given the opportunity to benefit from maternity leave?

1. Yes
2. No
3. Do not know
4. Not applicable

QIE7: Unless there is due cause, could your employment be terminated by your employer without advance notice?

1. Yes
2. No
3. Do not know

QIE8: In case of termination of employment (either initiated by you or your employer), would you receive the benefits and compensation specified in the existing labour laws?

1. Yes
2. No
3. Do not know

Classifying Jobs of Employees as Informal Jobs

1. “At least one” criterion: A job is said to be informal if at least one of the responses to questions QIE1 – QIE8 corresponds to “informal job”:

| Question | Response Category | |
|----------|-------------------|--------------|
| | Formal job | Informal Job |
| QIE1 | 1 | 2, 3 |
| QIE2 | 1, 2 | 3, 4 |
| QIE3 | 1 | 2 |
| QIE4 | 1 | 2 |
| QIE5 | 1 | 2 |
| QIE6 | 1 | 2 |
| QIE7 | 2 | 1 |
| QIE8 | 1 | 2 |

2. A minimum (>1) specified set of benefits is not received— can be developed with the objective of analyzing degree of informality

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About the Paper

This paper is part of a three-country study series on approaches for measuring informal employment using an existing labor force survey that was not specifically designed for this purpose. Results from the 2005 Bangladesh Labor Force Survey show that 87.71% of the employed in Bangladesh are engaged in informal employment, and that wage differentials between the formal and informal workers are significant in all industry sectors. Workers engaged in informal employment are mostly in agriculture; hunting and forestry; wholesale and retail trade; manufacturing; and transport, storage, and communications sectors. Women are most likely to be engaged in informal employment than men.

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