

What Works for Working Women? Unpacking the Constraints on Female Labour Force Participation in Bangladesh

APHICHOKE KOTIKULA*

RUTH HILL**

WAMEQ AZFAR RAZA***

During the last five years, urban poverty reduction in Bangladesh has stagnated and, perhaps without coincidence, this has also been a period in which urban female labour force participation (FLFP) rates have also fallen. Understanding factors that constrain FLFP in urban areas is increasingly important to understanding how to ensure urban income growth and poverty reduction, as Bangladesh continues to urbanise. This paper explores factors that constrain women in slums and low-income neighbourhoods in Dhaka from engaging in the labour market and supplying their labour to wage or self-employment. It uses unique individual level data on labour market participation, time-use, norms and skills, both cognitive and non-cognitive. The data reconfirm well-known patterns about female labour force participation: that it is higher among low-income neighbourhoods and women with low education, and it is higher among younger unmarried women. The paper also highlights the correlation between soft-skills and type of work. In addition, the paper quantifies the important correlation between the need for childcare, safety in public spaces and at work.

Keywords: Female Labour, Urban, Slum, Skills, Norms

JEL Classification: I21, J16, J22, J24

I. INTRODUCTION

Bangladesh has made great strides in female labour force participation (FLFP): it now outperforms neighbours such as India and Pakistan. But the national rate of

* The World Bank.

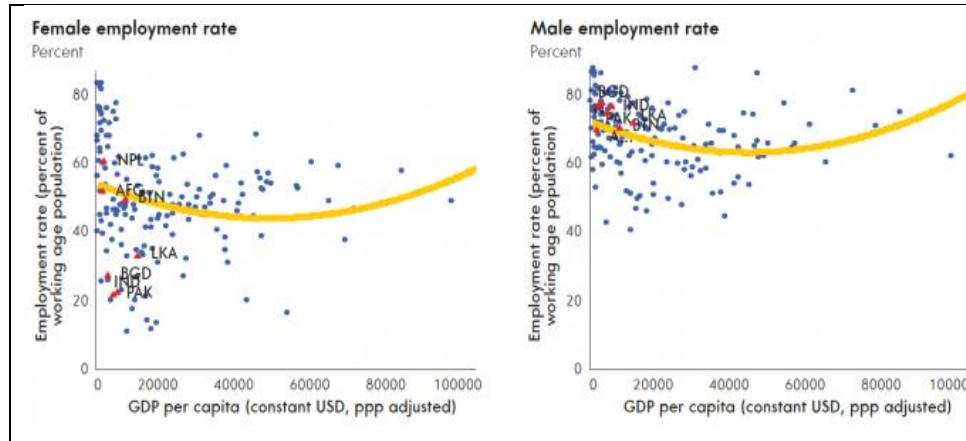
** The World Bank.

*** The World Bank.

The report team is grateful to Ana Maria Munoz, Sonya Sultan, and Syud Amer Ahmed for valuable comments. The team thanks Faizuddin Ahmed for his help on the sampling and Kathleen Beegle, Maria Eugenia Genoni, Monica Yanez Pagans, Anna O'Donnell, Sabah Moyeen, Bakhtiar Sohag for their guidance and support throughout the process of this study. The team would also like to thank Data Analysis and Technical Assistance (DATA) for their input on the questionnaire design and the DIGNITY survey field work.

36 per cent is still considered too low. This rate is still 46 percentage points behind the rate for male counterparts in Bangladesh (82 per cent) (BBS 2018). Moreover, the FLFP rate is low compared to countries such as Cambodia (81 per cent), Indonesia (51 per cent), and Vietnam (73 per cent) (World Bank WDI 2019). In fact, the trend for the women's employment rate in Bangladesh is unusually low when comparing it with other countries with a similar income level (Figure 1). The men's employment rate, however, is on par with other countries (World Bank 2018).

Figure 1: U-Shape Curves of Female and Male Employment Rates



Source: *South Asia Economic Focus* (Spring 2018).

Recently, FLFP rates in Bangladesh have fallen as a result of lower rates in urban settings, and an urbanising population. In 2017, FLFP was 31 per cent in urban areas, compared to 39 per cent in rural areas (BBS 2018). However, the FLFP in urban areas has been declining in recent years, from 34.5 per cent in 2010, to 33 per cent in 2013, and most recently to 31 per cent in 2016 and 2017 (BBS 2018). This is a troubling trend, as Bangladesh is urbanizing. And while 37 per cent of the country's population currently lives in urban areas, the urban population is projected to reach 112 million, or 58 per cent of the total population, by 2050 (UNDESA 2018). In effect, this suggests that almost all future population growth in Bangladesh will be in urban areas.

Lower rates of urban FLFP and gender differences in returns to labour are constraining urban income growth and poverty reduction. Although on average urban areas are less poor than rural areas, the urban poverty rates are still quite high, and there are some urban neighbourhoods where the level of poverty is very

high. The number of slums has increased substantially, from 2,991 in 1997 to 13,938 in 2014, and the population in slums has increased at an annual rate of 12 per cent—from 0.7 million in 1997 to 2.2 million in 2014—nearly double the population growth in urban areas as a whole (BBS 2014).

The main driver of poverty reduction in Bangladesh has been income from labour; as such there is a need to better understand the constraints to FLFP and income growth in urban areas, particularly in low-income areas. The recent literature on urban FLFP, which will be reviewed in Section 2 of this paper, suggests that FLFP in urban areas cannot be fully explained by the same determinants that have been important in the past, such as level of educational attainment and marital status. There is a need to better understand FLFP in urban areas, and to do so using data that better capture some of the other factors that may be constraining women's participation in the workforce.

Female employment in urban areas is central to the narrative of Bangladesh's economic growth. Large-scale job creation in the manufacturing sector, mostly in urban areas, has been contributing to employment growth (2.4 per cent annually from 2003 to 2016), with wage employment growing by 5.7 per cent per year. This expansion is also a factor in the growth of female employment, bringing millions of women into the labour force (Farole and Cho 2017). The 2017 Bangladesh Jobs Diagnostics also suggests that declining urban FLFP could be caused by lower demand for female labour associated with the rapid employment slowdown in the RMG and textile sectors—the largest source of urban female employment—since 2010 (Farole and Cho 2017). However, lower FLFP rates could also be driven by changes in supply-side factors such as changes in skills, demographics, or social norms around female work.

This study attempts to fill in the data and knowledge gaps on women's economic empowerment in urban areas. While an array of national-level datasets has collected a wide spectrum of information, they rarely comprise all of the information needed to study the drivers of FLFP. Quantitative data on urban labour market dynamics in Bangladesh, especially for women, is still quite limited. For instance, the time spent by women on household work and caregiving is an important deterrent to economic activity. This information, however, is collected only through a survey that is separate from the *Household Income and Expenditure Survey* (HIES) and the *Labour Force Survey* (LFS), which collect detailed employment-related information. Additional pertinent information that relates to labour force participation, such as information about skills, urban migration, employment patterns and history, perception of social capital, and safety,

transportation, and service utilisation are collected through a variety of instruments.

The data gap is being filled by the primary data collection of a specialised survey called Dhaka low Income area Gender, Inclusion, and poverty (or DIGNITY) survey; it is representative of poor urban areas and is specifically designed to address these limitations. DIGNITY collected information from 1,300 urban households living in poor areas of Dhaka in 2018 on a range of issues that affect FLFP as identified through the literature. These range from household composition and demographic characteristics to socioeconomic characteristics such as detailed employment history and income (including locational data and travel details), and from technical and educational attributes to issues of time use, migration history, and attitudes and perceptions.

The existing literature on known constraints to FLFP in Bangladesh has been presented in Section II, with subsections related to various subtopics. Section III discusses the main data used for this paper, the DIGNITY survey, and describes its sampling methodology and key summary statistics. Section IV presents a descriptive analysis of FLFP, along with discussions of key constraints and enabling factors for women's employment in urban areas. Finally, Section V presents our results, drawn from a multivariate analysis of women's work in Dhaka.

II. LITERATURE REVIEW

The goal of this paper is to present the factors that contribute to FLFP in low-income areas of urban centres in Bangladesh. Qualitative studies suggest that working women in urban areas tend to exhibit greater measures of empowerment, such as managing household expenditures, having access to savings, and freedom of movement (Kabeer 2017). As extreme poverty is an important factor in explaining some of the rise in female employment in Bangladesh, one may expect a higher level of FLFP in low-income areas than the rest of Dhaka city (Bridges, Lawson and Begum 2011).

The literature on female employment in low-income areas of Dhaka tends to rely on qualitative studies. Salway, Jesmin, and Rahman (2005) compared married women in Dhaka who were engaged in wage employment with those who had never worked. Drawing on fieldwork in four Dhaka slums, Banks (2013) revealed a complex balance involved in meeting economic and social priorities. Her work suggests that female employment is seen by men as a short-term coping strategy to deal with the high cost of living in urban areas, while women, particularly

women working in industries like the garment sector, recognise that their work can contribute to the household income. Still, women need to balance work and domestic responsibilities. Reviewing the existing literature about constraints to—and enabling factors for—women’s work in Bangladesh can help guide analysis. The new World Bank publication *Voices to Choices: Bangladesh’s Journey in Women’s Economic Empowerment* analyses multiple data sources to understand recent trends and patterns in women’s employment. This book identifies the relationships between FLFP and key drivers such as level of educational attainment, marriage, presence of children, and use of time.

Marriage has been a known correlate of FLFP in Bangladesh (Joliffe *et al.* 2013, Mahmud and Bidisha 2018). A recent analysis of the Labour Force Survey (LFS) data in *Voices to Choices* reveals that marriage penalises only urban women’s participation in the labour markets, whereas it is associated with *higher* labour force participation (LFP) probabilities for urban men, and for both women and men in rural areas. In 2016, the probability of LFP was 6.4 percentage points lower for urban married women than for urban unmarried women, whereas marriage was associated with a 14-percentage-point premium for urban men. Unlike rural women, who often work in the agricultural sector, urban women’s work may more often require leaving the home, which is more likely to result in familial disapproval. Arranging childcare may also be easier in rural settings due to a network of family members who can help care for the children. *Voices to Choices* also show that married women have increasingly been entering the labour markets. While FLFP of married women has shifted upward across all age groups, the highest increase has been among married women in their 30s and 40s. “The LFP rate of married women in the cohort born between 1968 and 1977 (who were thus 26–35 years old in 2003 and 39–48 years old in 2016) increased from 26 per cent in 2003 to 42 per cent in 2016” (Solotaroff *et al.* 2019: 32). This shift may suggest an improvement in attitudes of husbands and mothers-in-law toward women’s LFP as well as a reduction in childcare duties due to fertility decline. Moreover, having older family members living in the household appears to be positively correlated with FLFP.

The presence of children in the household is significantly related to the LFP probabilities of both men and women, though the relationship varies by the child’s age. A cross-country study suggests that having a child can reduce LFP by about two years during a woman’s reproductive life (Bloom and Finely 2009). Women with children ages 0–5 in the household are significantly less likely to (re)join the

labour force than women without young children. (For men, the relationship is not significant). However, both women and men are more likely to be in labour markets if there are children ages 6–10 in the household (compared to women and men without children this age). The negative association between the likelihood that women will be working when children ages 0–5 are present is almost three times greater for urban than for rural women. This finding may suggest that access to childcare services is a crucial factor in women's LFP (Solotaroff *et al.* 2019).

The relationship between educational level and LFP in Bangladesh appears to follow a U-shaped curve pattern, according to the analysis of the 2016 LFS in *Voices to Choices*. LFP is high among those without education and those with only primary education, and it falls with an increasing educational level, with a trough observed at the level of secondary school certificate. On the other hand, the LFP of women with higher education degrees are highest compared to the other groups. Rahman and Islam (2013) also find that, while the relationship between casual and daily employment and education is negative and significant, the opposite is true for salaried, self, and family employment.

Time-use data analysis shows that traditional gender roles still impose a disproportionate burden of care work on Bangladeshi women. According to the analysis of the Bangladesh Time Use Survey data in *Voices to Choices*, urban women spent about six hours per day on household domestic tasks and unpaid care work, while urban men spent only one hour per day on these activities. Even among working women in urban areas, whose number of hours of work per day is only slightly less than men's (7 vs. 8.6 hours), they still spend about 3 hours a day on domestic tasks and unpaid care work. This data shows that care work may present an even greater obstacle for urban women than for rural women, and that access to childcare services may be most urgently needed in order to bring more urban women into the workforce.

Occupational sex-segregation is another constraint on women's access to jobs. In labour markets across the world, a widespread phenomenon is an imbalance in the types of employment in which men and women engage, and consequently the occurrence of male-dominated and female-dominated sectors or jobs. The concept of "women's work" in Bangladesh is often dictated by gender norms that affect how people form their perceptions about what is appropriate for men and for women. *Voices to Choices* suggests that traditionally low-paid workers such as house cleaners and maids are predominantly female. However, the 2016 LFS data

shows an encouraging trend that many manufacturing and higher-skill service occupations showed a high share of female workers.

The¹ qualitative data from low-income areas in urban centres provide additional nuance. Women are not only employed in garment factories, but also in PVC tape, small manufacturing and dyeing factories, and bakeries.

Another positive trend is the dwindling of occupational segregation by gender and the expansion of “mixed gender” industries² in the country. As women began to enter male-dominated occupations, the number of mixed-gender industries expanded substantially—from 16 per cent in 2003 to 75 per cent in 2016. The percentage of women working in female-dominated industries has also fallen, from 15 per cent in 2003 to only 4 per cent in 2016. The expanded presence of mixed-gender employment could be a sign that Bangladesh’s labour market is now malleable enough to accept women into a wide variety of occupations, and that there is an increased social acceptability of women working with men. In this regard, a study of female engineers in Bangladesh suggests that organisations can create their own organisational culture and practices that are welcoming for female staff, despite the prevailing social norms (Hossain and Kusakabe 2005).

Other constraints to FLFP identified through the literature and qualitative research include the risks of gender-based violence (GBV), restricted mobility, gender norms, and socioemotional skills gaps. However, quantitative data are rarely available. Restricted mobility and the practice of *purdah*³ are conjectured to prevent women from seeking lucrative jobs outside the home (Kabeer 2013, Ahmed and Sen 2018, Asadullah and Wahhaj 2019). While household surveys such as the LFS and the HIES do not contain such information, the location of work data is telling. In 2016, 62 per cent of working women worked from home, whereas almost all men were working outside their homes. Although home-based work may seem like a solution to narrowing gender gaps in LFP, it hurts women financially, as it is associated with low-paid (or often unpaid) and low-skill work. However, the LFS does not have data about mobility restriction. GBV also continues to inhibit women’s employment outside the home, as women are likely

¹ For example, women account for 39 per cent of health professionals and 45 per cent of manufacturing workers in food processing, wood working, and garment.

² In this context, mixed industries are defined as those whose share of female workers is between 40 and 60 per cent.

³ The concept of *purdah*, or female seclusion practice, will be explained in detail in section 4.6 of this paper.

to face a double risk of harassment—that is, harassment while travelling to and from work as well as in the workplace (Solotaroff *et al.* 2019). The DIGNITY survey was designed specifically to collect data about constraints to women’s employment, and this paper attempts to fill in the knowledge gaps by analysing the data DIGNITY gathered.

III. DATA: SAMPLING AND SUMMARY OF STATISTICS

3.1 Sampling Methodology

The DIGNITY (Dhaka low Income Area Gender, Inclusion and Poverty) survey was designed to shed light on poverty, economic empowerment, and livelihood in urban areas of Bangladesh. A broad array of information was collected on issues related to women’s economic empowerment, ranging from demographic and socioeconomic characteristics to detailed work history, time use, and attitudes about, and perceptions of, work. The key feature of the DIGNITY survey is that it collected economic data directly from the main household members, generally the *main couples*, unlike traditional surveys which only interviewed the heads of households (who tend to be men in most cases), and thus failed to gather valuable information from the female population.

The survey instrument has two main modules: the traditional household module (in which the head of household is interviewed on basic information about the household), and the individual module, in which two respondents from each household are interviewed individually. In the second module, two persons—one male and one female—from each household, usually the main couple, are selected for the interview. The survey team deployed one male and one female interviewer for each household so that the gender of the interviewers matched that of the respondents.

The DIGNITY survey is representative of low-income areas and slums of the Dhaka City Corporations (North and South, from here on referred to as Dhaka CCs), and an additional low-income site from the Greater Dhaka Statistical Metropolitan Area (SMA), following a two-stage stratification design. In the first stage, primary sampling units (PSUs) were selected using probability proportional to size (PPS). In the second stage, all of the households in the PSU were listed, and 20 households were selected for interviewing. Strata were used in both stages.

First Stage: Selection of the PSUs

Low-income PSUs were defined as non-slum census enumeration areas (EAs), in which the small-sample area estimate of the poverty rate is higher than 8 per cent (using the 2011 Bangladesh Poverty Map). The sampling frame for these low-income areas in the Dhaka CCs and Greater Dhaka is based on the population census of 2011. For the Dhaka CCs, all low-income census EAs formed the sampling frame. In the Greater Dhaka area, the frame was formed by all low-income census EAs in specific *thanas*⁴ where World Bank project locations were located.

Three strata were used for sampling the low-income EAs. These strata were defined based on the poverty head-count ratios. The first stratum encompasses EAs with a poverty headcount ratio between 8 and 10 per cent; the second stratum between 11 and 14 per cent; and the third stratum, those exceeding 15 per cent. The number of EAs selected from each stratum in the Dhaka CCs and the greater Dhaka areas is shown in Table I.

Slums were defined as informal settlements that were listed in the Bangladesh Bureau of Statistics' slum census from 2013/14. This census was used as a sampling frame of the slum areas. Only slums in the Dhaka City Corporations are included. Again, three strata were used to sample the slums. This time the strata were based on the size of the slums. The first stratum comprises slums of 50 to 75 households; the second 76 to 99 households; and the third, more than 100 households. Small slums with fewer than 50 households were not included in the sampling frame. Very small slums were included in the low-income neighbourhood selection if they are in a low-income area. The number of slums selected from each stratum is shown in the bottom panel of Table I.

⁴ Thana, or *Upazila*, is an administrative unit in Bangladesh, functioning as a subunit of a district.

TABLE I
SAMPLE ALLOCATION

Strata	Number of EAs	Selection criteria (poverty headcount ratio or number of households)	Criterion 1 (male and female working-age member)	Criterion 2 (only female working- age member)	Criterion 3 (only male working- age member)
<i>Low-income areas in the Dhaka CCs</i>					
1	20	8%-10%	328	57	15
2	18	11%-14%	181	33	7
3	5	15% +	82	15	4
<i>Low-income area in greater Dhaka</i>					
3	5	15% +	180	31	9
<i>Slums in the Dhaka CCs</i>					
1	3	50 to 75	52	6	2
2	8	76 to 99	137	22	1
3	7	100+	116	21	3

Altogether, the DIGNITY survey collected data from 67 PSUs. Locations of the PSUs are shown in Figure 2.

Second Stage: Selection of the Households

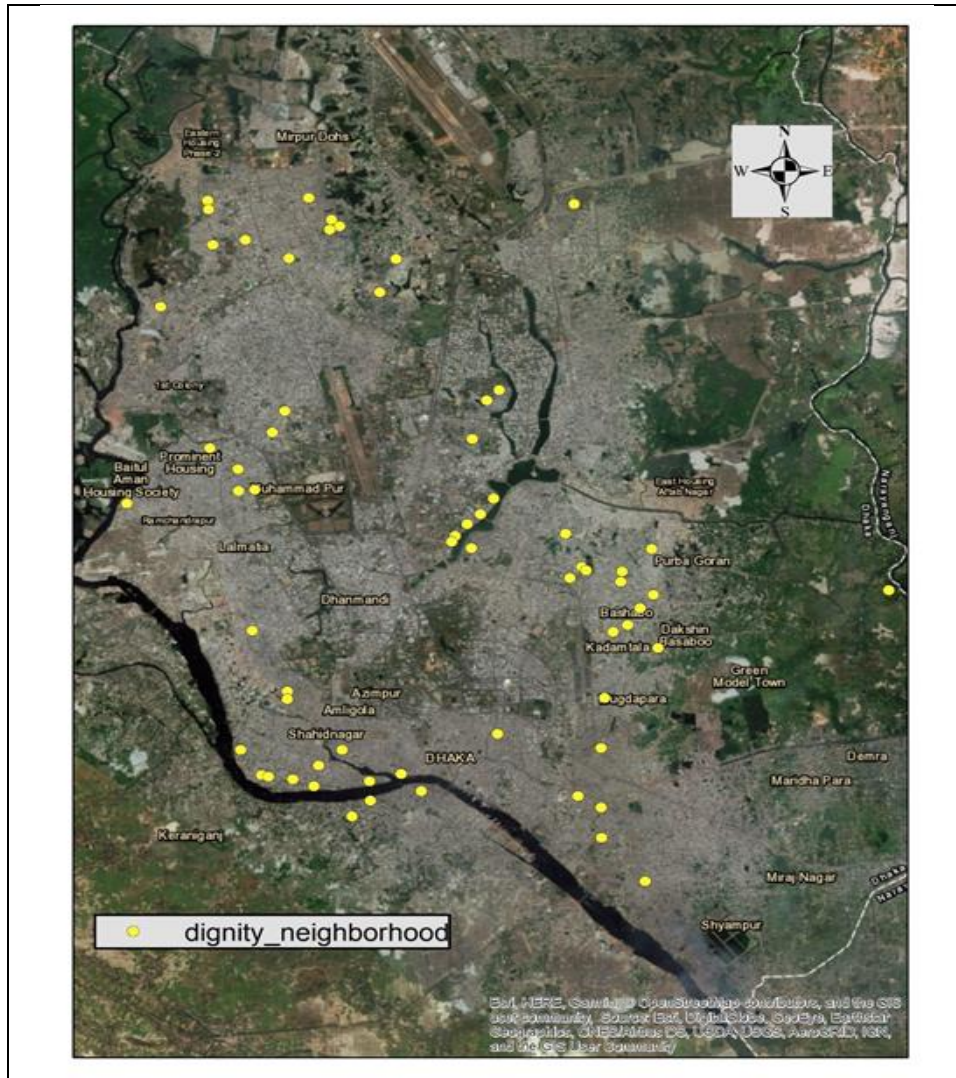
In each sampled PSU a complete listing of households was done to form the frame for the second stage of sampling: the selection of households. When the number of households in a PSU was very large, smaller sections of the neighbourhood were identified, and one section was randomly selected to be listed. The listing data collected information on the demographics of the household to determine whether a household fell into one of the three categories that were used to stratify the household sample:

- i) households with both working-age male and female members;
- ii) households with only a working-age female;
- iii) households with only a working-age male.

Households were selected from each stratum with the predetermined ratio of 16:3:1. In some cases there were not enough households in categories (ii) and (iii) to stick to this ratio; in this case, all of the households in the category were sampled, and additional households were selected from the first category to bring the total number of households sampled in the PSU to 20.

The total sample consists of 1,300 households (2,378 individuals). Table I provides the breakdown of households into each stratum.

Figure 2: Locations of PSUs



Source: Authors' rendition, based on the DIGNITY data.

3.2 Demographic Characteristics of Sample Households

Summary statistics of the demographic characteristics of the sample are presented in Table II. The respondents are equally distributed across genders as a result of the fact that most households have both men and women of working age, and in these cases, one man and one woman were interviewed. The average age of

women in our sample is 32.8 years old, while the men on average are 37.1 years old. The majority of respondents (91 per cent) report being married, although the proportion is marginally higher among women (92 per cent) than among men (90 per cent). The average age at marriage is 18.9 years, but this masks a wide variation across genders: the average age of marriage for men is 22.3 years, while for women it is only 15.8 years. The average household size is four people. In terms of education, men and women have both completed an average of 3.5 years of schooling. Ten per cent of men had attended technical and vocational education and training (TVET) compared to 7 per cent of women.

TABLE II
DEMOGRAPHIC CHARACTERISTICS OF THE SAMPLE

	Full Sample		Male		Female		Test (Male – Female)
	Mean	SD	Mean	SD	Mean	SD	
Gender (1=male; 0=female)	0.49	0.50					
Age of respondent (completed years)	34.95	11.63	37.15	11.83	32.84	11.04	***
Respondent is head of household (1/0)	0.50	0.50	0.90	0.30	0.12	0.33	***
Marital status							
Never married (1/0)	0.04	0.20	0.08	0.27	0.01	0.09	***
Married (1/0)	0.91	0.29	0.92	0.28	0.90	0.31	***
Widow/widower (1/0)	0.03	0.18	0.00	0.05	0.06	0.24	*
Divorced (1/0)	0.00	0.06	0.00	0.03	0.01	0.08	***
Separated/deserted (1/0)	0.01	0.12	0.00	0.02	0.03	0.17	**
Age at marriage (continuous years)	18.85	4.68	22.29	4.03	15.78	2.65	***
Household size	3.94	1.55	3.97	1.54	3.91	1.55	
Years of completed education	3.55	3.70	3.58	3.84	3.52	3.55	
Respondent received TVET (1/0)	0.08	0.28	0.10	0.30	0.07	0.26	**
N	2378		1117		1259		

Notes: Table shows individual level weighted means of the sample in the study. * p<0.1; ** p<0.05; *** p<0.01. TVET refers to technical and vocational education and training

Because migration—particularly rural to urban migration—is synonymous with urbanisation in Bangladesh, understanding the migration profile of people in low-income communities is crucial. The DIGNITY data confirm the hypothesis that the majority of the people in the survey are migrants. About 74 per cent are from other places, while only 26 per cent are from Dhaka *zila* (or district, including those born in the community) (see Table III). Migration to urban areas is mostly economically motivated; about seven in ten migrants moved to the city to find work. The migrant ratio among women is slightly higher than among men, reflecting the general trend that women tend to move due to marriage. About 24

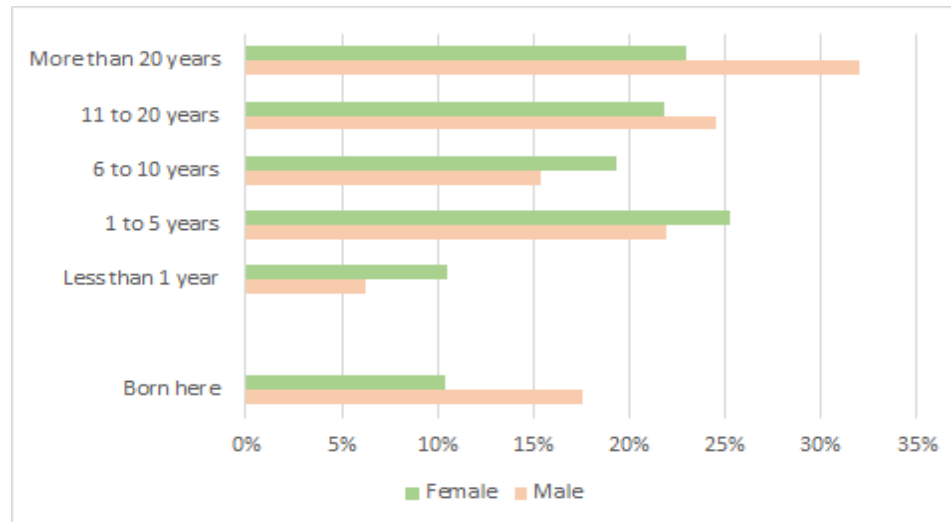
per cent of female respondents moved to their current community because of marriage, compared to about 1 per cent of men. On the other hand, about 75 per cent of men reported moving to the community to find work, compared to about 50 per cent of the women. In any case, the ratio of adult women who have moved because of work is much higher than the urban average of only 14 per cent, according to the 2016 LFS.

TABLE III
MIGRATION HISTORY

	Male		Female		Test (Male - Female)
	Mean	Standard Deviation	Mean	Standard Deviation	
Origin					
From Dhaka Zilla (1/0)	0.28	0.45	0.25	0.43	
From elsewhere (1/0)	0.72	0.45	0.75	0.43	
Primary reason for moving					
Work (1/0)	0.73	0.44	0.47	0.50	***
Marriage (1/0)	0.01	0.09	0.24	0.43	***
With or for family (1/0)	0.09	0.29	0.16	0.37	***
N	1117		1261		

Note: Table shows weighted means at the household level. * p<0.1; ** p<0.05; *** p<0.01.

Figure 3: Duration of Time in Current Community



The respondents' duration of stay in the community is distributed across the time spectrum (Figure 3). While about 30 per cent have lived the community for

five years or less, an equal amount has lived in the community for more than 20 years. Moreover, about 16 per cent of the sample were born in the community. The data suggests that these communities have been established with dynamic population movement.

3.3 Comparing DIGNITY to other Data

An initial comparison suggests that the population interviewed for the DIGNITY survey is largely comparable to those found in the HIES for household composition and other demographic characteristics (household size, gender ratio, and the adult-to-child ratio) (see Table IV). Understandably, we begin to note divergent trends between the two samples when it comes to housing and socioeconomic characteristics. This is likely driven by the fact that the DIGNITY sample is exclusively focused on poorer areas of Dhaka, and therefore is able to capture a focused range of representative households. For instance, the households from the DIGNITY survey are markedly worse off when it comes to the earner-to-non-earner ratio (the dependency ratio) and completed years of education.

TABLE IV
COMPARISON OF DIGNITY SAMPLE OF NATIONAL DATA

	HIES 2016		DIGNITY Survey	
	Dhaka CC	Dhaka SMA	Dhaka CC	Dhaka SMA
Demographic characteristics				
Household size	3.7	3.7	3.9	4.1
Gender ratio (Male: Female)	49%	49%	49%	49%
Proportion of adults in the household (>15 years)	72%	72%	74%	72%
Proportion of married adults	93%	92%	91%	90%
Housing characteristics				
Roof material (brick/cement)	47%	21%	24%	38%
Electricity connection	100%	96%	100%	100%
Use of improved source of water	100%	97%	100%	68%
Socioeconomic status and job				
Dependency ratio	39%	36%	53%	47%
Years of education completed	9.3	8.3	3.5	4.2

Note: Table shows weighted means.

3.4 Slums vs. Non-slums

Slum spaces are typically characterised by dense and often poorly-constructed living spaces; poor access to basic facilities; and are predominantly occupied by the poor. Approximately 93 per cent of households in this survey are located within Dhaka City Corporation (Dhaka CC). Overall, households in slum communities make up about 16 per cent of the city's population. Comparison between the slum and non-slum areas reveal few differences in terms of demographic characteristics. Women represent half of the population in both areas, while their average age is

approximately 35 years (see Table V). The average age when individuals marry is fairly young – approximately 19 years. The number of household members is marginally higher in slum areas (4.4) compared to non-slum areas (3.9). Approximately 89 per cent of respondents live in male-headed households in both locations. Individuals living in non-slum areas are generally better educated; on average they have 0.86 more years of education. Similarly, a greater proportion of household heads are able to read and write (52 per cent vs. 43 per cent for slum and non-slum areas, respectively).

Housing in low-income areas of Dhaka is characterised by limited space, but with decent access to services. On average, the houses in slum areas are smaller than those in non-slum areas (121.4 versus 127.5 square feet), and with fewer rooms (1.2 versus 1.3 rooms). Though the number of rooms per person is the same in both locations (0.3 rooms), the space per capita is smaller in slums (32.1 versus 35.1 square feet). Approximately 81 per cent of households in non-slum areas have separate kitchens, compared to 59 per cent in slum areas. Households in non-slum areas are generally built with better building materials. Roofs made of bricks and cement are seven percentage points higher among non-slum households, while the opposite is true for those made with more temporary materials such as tin. Similarly, the proportion of respondents who can access improved toilets in slums (79 per cent) is ten percentage points below that in non-slum areas (89 per cent). While access to water from an improved source is universal for slum households, only 94 per cent of non-slum households have this: this is likely a positive externality of the comparatively higher levels of population congestion in slums, where a single improved source of water is accessed by everyone in the community. Access to electricity is universal in the sample.

As with housing conditions, access to services varies by household location. Schools, for instance, both public and private, are accessed four percentage points more by slum households. The proportion of slum households with access to public healthcare facilities is four percentage points higher than the 24 per cent in non-slum areas. The opposite is true for private healthcare facilities. Perhaps this is driven by the fact that, given the concentration of population in slum areas, many service providers, such as education and healthcare providers, congregate around these areas. Lastly, in terms of transportation, for both short and long-distance modes of travel, non-slum households have more frequent access than slum households (by 10 and 19 percentage points respectively). This could reflect the fact that slums typically form near either potential or existing job sites, thereby precluding the need for vehicular transport. Modes of work-related transport are further discussed in Section 4.5.

TABLE V
COMPARISON OF SLUM AND NON-SLUM AREAS

	Slum		Non-slum		Test (Slum - Non- slum)
	Mean	SD	Mean	SD	
Demographics					
Gender (1=male; 0=female)	0.49	0.50	0.49	0.50	
Age of respondent (completed years)	35.56	12.20	34.83	11.52	
Age of marriage (completed years)	18.70	4.64	18.87	4.69	
Marital status: never married (1/0)	0.03	0.18	0.04	0.21	
Marital status: married (1/0)	0.92	0.28	0.90	0.29	
Household size (continuous number)	4.40	1.82	3.85	1.47	***
Male-headed household (1/0)	0.89	0.31	0.89	0.31	
Education					
Years of completed education (completed years)	2.89	3.52	3.68	3.72	***
Household head can read/write (1/0)	0.43	0.50	0.52	0.50	***
Housing					
Number of rooms in household (continuous numbers)	1.31	0.59	1.16	0.41	***
Number of rooms per capita in household (continuous numbers)	0.33	0.15	0.33	0.14	
Space per household (sq ft)	127.53	54.74	121.44	48.47	**
Per capita space in household (sq ft)	32.14	17.73	35.08	18.32	***
Has a separate kitchen (1/0)	0.59	0.49	0.81	0.39	***
Roof material: tin (1/0)	0.79	0.41	0.70	0.46	***
Roof material: brick/cement (1/0)	0.20	0.40	0.27	0.45	***
Has access to improved toilets (1/0)	0.79	0.41	0.89	0.31	***
Gets water from an improved source (1/0)	1.00	0.05	0.94	0.23	***
Has electricity (1/0)	0.99	0.07	1.00	0.05	
Service utilisation					
Public primary/secondary school (1/0)	0.23	0.42	0.19	0.40	
Private primary/secondary school (1/0)	0.37	0.48	0.33	0.47	
Public health facility (1/0)	0.28	0.45	0.24	0.43	*
Private health facility (1/0)	0.51	0.50	0.59	0.49	***
Local transport (bus) (1/0)	0.62	0.48	0.72	0.45	***
Long distance transport (1/0)	0.37	0.48	0.56	0.50	***
N	663		1713		

Source: Estimated from the primary data of DIGNITY survey.

Note: Table shows weighted means of individuals living in slum and non-slum areas. * p<0.1; ** p<0.05; *** p<0.01

IV. WOMEN'S WORK: DRIVERS AND CONSTRAINTS

This section presents key patterns related to women's work drawn from the DIGNITY data. We begin with the use of time in activities that individuals perform during the course of the day, then drill down to statistics about work and the nature

of work. Data about expected constraints and drivers of female labour are also discussed in this section.

4.1 Time-use Data in the DIGNITY Survey

Time-use data report the amount of time individuals spend on activities such as paid work, chores, childcare, leisure, and self-care activities. The data allow us to better understand how people allocate their time across a variety of activities. This data also reveals how men and women allocate their time differently, partly due to gender roles, and how this may affect women's economic empowerment.

In most countries where data are available, women bear a disproportionately higher responsibility for unpaid work, and spend proportionately less time in paid work than men. Unfortunately, generally speaking, time-use data is not widely available). In the case of Bangladesh, the only time-use survey that has been conducted is the 2012 Pilot Survey for Time Use. Attempting to fill the data gap and test new methodology on time use, the DIGNITY survey includes a module on time use, building on earlier survey work, such as the 2012 pilot survey, and the Women's Empowerment in Agriculture Index surveys developed by the International Food Policy Research Institute (IFPRI).

The DIGNITY survey used the one-day recall method to collect time-use data: the data reveal sharp gender differences in the use of time (Table VI). Men spend much more time in paid employment, while women spend more time on unpaid domestic work, childcare, and elderly care. Men tend to work long hours, about ten hours on average, while women spend about four hours per day in employment-related activities. Comparing the DIGNITY results with the 2012 Time Use Pilot suggests that women in low-income communities and slums work longer hours, on average, than women in urban areas on the whole (four vs. two hours per day), but allocate fewer hours to domestic and care work. As with the urban average, we observe that time spent on personal maintenance, leisure, and other activities is slightly higher among women than among men. Finally, the burden of childcare and domestic work disproportionately falls on women; women's time spent on these activities is eight times greater than that of men (0.34 hours a day for men vs. 5.16 for women).

TABLE VI
TYPICAL DAY OF MEN AND WOMEN IN THE DIGNITY SAMPLE

	Male		Female		Test (Male - Female)
	Mean	SD	Mean	SD	
<i>Main Activities (continuous hours)</i>					
Personal activities	11.45	2.32	12.12	2.61	***
Other activities	2.24	2.85	2.81	2.23	***
Working	9.97	4.14	3.91	4.72	***
Domestic work	0.15	0.6	4.34	2.22	***
Providing care	0.19	0.64	0.82	1.36	***
<i>Total</i>	<i>24.00</i>		<i>24.00</i>		
<i>Secondary activity</i>					
Providing childcare as a secondary activity	0.41	1.42	1.82	2.84	***
N	1117		1259		

Note: Table shows weighted means. * p<0.1; ** p<0.05; *** p<0.01.

Time spent on childcare is prone to omission, as caregivers may combine it with other tasks: for example, they may be preparing meals or watching TV while they are also watching their children. The DIGNITY survey attempts to address this problem by specifically asking respondents whether they also care for children while they are undertaking other activities. The results confirm our hypothesis: time spent on childcare is greater when accounting for the time that people spend caring for children while also performing other activities. The DIGNITY data show that women spend an additional 1.8 hours looking after children while performing other activities, more than twice the amount of time reported for direct childcare. On the other hand, men spend about 0.4 hours on secondary childcare, bringing men's total time spend on childcare per day to about 36 minutes per day. This new data collection effort underscores the risks of not collecting data about secondary childcare activity, which could lead to grossly underestimating the need for childcare.

Comparing the use of time for women who are in and out of the labour force reveals constraints to female labour force participation (FLFP) (see Table VII). Within the economically active population, the number of hours that men work per day is greater than that of women: on average, working women spend about 6.5 hours per day while men spend 3.7 hours longer (10.2 hours per day). On the other hand, working women spend more time on domestic work and providing care. The combined time that working women spend on these activities is comparable to the surplus working hours that men perform. While women who do not work report little time spent in direct childcare and elderly care, the time is complemented with secondary child care because they provide on average 2.6 hours of childcare as a secondary activity (that is, caring for children while they are also doing other activities).

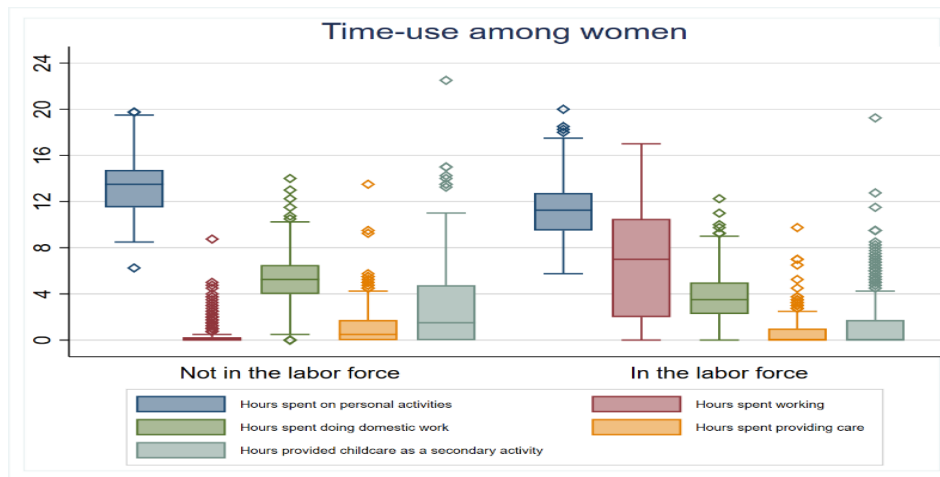
TABLE VII
TIME UTILISATION BY STATUS OF LABOUR MARKET PARTICIPATION

	Male		Female		Test (Male - Female)
	Mean	SD	Mean	SD	
<i>Panel A: Individuals in the labour market (continuous hours)</i>					
Personal activities	11.37	2.27	11.28	2.48	
Other activities	2.11	2.76	2.06	1.94	
Working	10.20	3.91	6.49	4.69	***
Domestic work	0.13	0.52	3.61	2.08	***
Providing care	0.19	0.64	0.56	1.09	***
<i>Total hours per day</i>	<i>24.00</i>		<i>24.00</i>		
Providing childcare as a secondary activity	0.42	1.44	1.28	2.36	***
N	1086		753		
<i>Panel B: Individuals not in the labour market (continuous hours)</i>					
Personal activities	14.04	2.36	13.28	2.32	*
Other activities	6.19	2.88	3.83	2.20	***
Working	2.80	4.46	0.38	1.00	***
Domestic work	0.74	1.76	5.33	2.02	***
Providing care	0.24	0.60	1.18	1.61	***
<i>Total hours per day</i>	<i>24.00</i>		<i>24.00</i>		
Providing childcare as a secondary activity	0.17	0.69	2.57	3.24	***
N	32		506		

Note: Table shows weighted means. * p<0.1; ** p<0.05; *** p<0.01.

The variation in women’s working hours is also high compared to that of men. Figure 4 shows a large variation in women’s working hours per day. Among the middle 50 per cent of women, the number of working hours ranges from two to 10.5 hours per day. The variation is much greater than that for men; men’s working hours in the middle 50 per cent range from nine to 13 hours per day.

Figure 4: Time-Use among Women, In and Out of the Labour Force



Source: Estimated from the primary data of DIGNITY survey.

Figure 5: Time-Use among Men, In and Out of the Labour Force



Source: Estimated from the primary data of DIGNITY survey.

4.2 Work and the Nature of Work

The labour force participation (LFP) rates are 58 per cent and 97 per cent among women and men respectively (see Table VIII). The FLFP rate is remarkably higher than the norm found in urban Bangladesh: the 2016/17 LFS reports the labour force participation rate (LFPR) as 33 per cent. However, the FLFP is higher in low-income areas in Dhaka than in more well-off neighbourhoods. While the LFP of adult men in urban areas of Dhaka is at the same level as in low-income areas (around 94 per cent), the participation rate of adult women is 50 per cent higher in low-income areas of Dhaka than in urban Dhaka as whole (31 per cent) (BBS 2018).

TABLE VIII
WHO WORKS: DEMOGRAPHICS AND EDUCATIONAL LEVEL OF
INDIVIDUALS IN THE LABOUR FORCE

	Male		Female		Test (Male - Female)
	Mean	SD	Mean	SD	
<i>Individual is economically active (1/0) - full sample</i>	0.97	0.17	0.58	0.49	
Age of respondent (completed years)	36.86	11.65	33.00	10.06	***
Age at marriage (continuous years)	22.26	4.03	15.72	2.73	***
Marital status: Never married (1/0)	0.08	0.27	0.01	0.12	***
Household size (continuous numbers)	3.98	1.53	3.80	1.61	**
Male-headed household (1/0)	0.92	0.27	0.81	0.39	***
Years of completed education (completed years)	3.62	3.85	3.07	3.52	***
Respondent received TVET (1/0)	0.10	0.30	0.10	0.30	
N	1,085		753		

Note: Table shows weighted means. * p<0.1; ** p<0.05; *** p<0.01. TVET refers to technical and vocational education and training.

As shown in Table VIII, the average working woman is 33 years old, 3.9 years younger than her male peers (36.9 years). Only 1 per cent of the women in the labour force has never been married, while the figure is eight times higher among men. Women are marginally less well educated than their male peers. While the average woman has completed 3.1 years of schooling, the corresponding figure for men is 3.6 years. Surprisingly, the proportion of individuals who have received TVET is 10 per cent for both genders.

TABLE IX
NATURE OF WORK

	Male		Female		Test (Male - Female)
	Mean	SD	Mean	SD	
Individual engaged in wage-employment (1/0)	0.75	0.43	0.75	0.44	
Individual engaged in self-employment (1/0)	0.23	0.42	0.11	0.31	***
Employment industry					
RMG worker (1/0)	0.03	0.16	0.19	0.39	***
Self-employed (1/0)	0.26	0.44	0.11	0.31	***
Service (1/0)	0.27	0.44	0.10	0.30	***
Porter/day labour (1/0)	0.11	0.31	0.08	0.28	*
Maid/servant (1/0)	0.00	0.00	0.31	0.46	***
Payment and terms					
Remuneration received monthly (1/0)	0.44	0.50	0.84	0.36	***
Total monthly income (wage + business) (BDT)	13,076	7,235	5,546	4166	***
Contract type: Permanent (1/0)	0.33	0.47	0.41	0.49	***
Contract type: Temporary (1/0)	0.27	0.45	0.35	0.48	***
Contract type: Casual/daily work (1/0)	0.13	0.34	0.04	0.19	***
N	1,085		753		

Note: Table shows weighted means. * p<0.1; ** p<0.05; *** p<0.01.

Among those who work, three-quarters of both men and women work as wage earners, as shown in Table IX. Engagement in self-employment shows some stark differences across gender lines. Only 11 per cent of women engage in self-employment, compared to 23 per cent of men. The proportion of women working in the ready-made garment (RMG) sector overwhelms the number of men (19 per cent vs. 3 per cent). The opposite is true in the service sector, where 27 per cent of men are engaged, compared to 10 per cent of women. The proportion of individuals working as porters or day labourers is more evenly split along gender lines: 11 per cent of men, and 8 per cent of women. Lastly, being a rickshaw puller is entirely a male profession (about 18 per cent of men), while all maids are women (31 per cent of women who work). As with the reported national statistics from the LFS, a vast majority (about 80 per cent) of women who do not work indicate household work as the reason for not working (Table X).

TABLE X
PRIMARY REASONS FOR NOT PARTICIPATING IN THE LABOUR FORCE

	Male		Female		Test (Male - Female)
	Mean	SD	Mean	SD	
Household work (1/0)	0.00	0.00	0.79	0.41	***
Illness (1/0)	0.67	0.47	0.11	0.31	***
Other (1/0)	0.33	0.47	0.10	0.30	***
N	51		556		

Note: Table shows weighted means. * p<0.1; ** p<0.05; *** p<0.01.

While the number of women who report being paid on a monthly basis is nearly double than that of men (84 vs. 44 per cent), men on average report earning nearly three times as much as women – 13,076 taka compared to 5,546 taka. In terms of contract type, 41 per cent of women report having permanent jobs, in contrast to only 33 per cent of men, while temporary employment is reported by a higher proportion of women than men (35 per cent vs. 27 per cent). Finally, casual or daily employment is more than three times as prevalent among men (13 per cent) as among women (4 per cent).

4.3 Skills

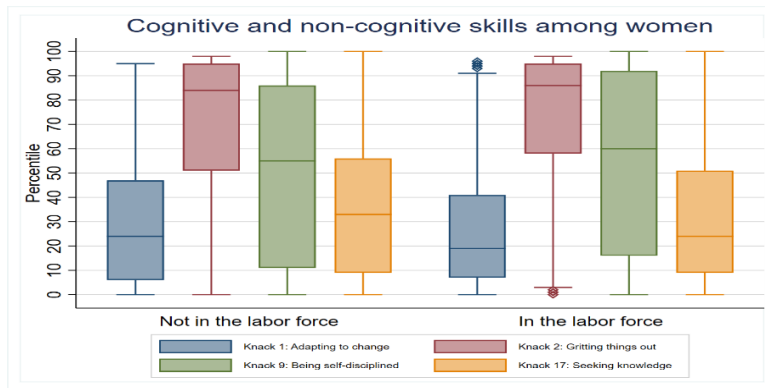
This section explores the standardised cognitive and noncognitive skills of the urban poor. The importance of collecting information about personal attributes in order to account for unobservable innate skills that may play significant roles in the level of educational and/or income attainment has long been discussed. These skills, however, are difficult to quantify, due to the difficulty that respondents in low-capacity development settings often have in comprehending such questions, and/or the difficulty of developing valid measures for them. For instance, the well-used modules that are used to study cognitive capacities, such as the Raven's test,⁵ are difficult to compare across different contexts. Data on these skills were recently collected from 1,300 individuals in low-income neighbourhoods in urban Bangladesh in partnership with Knack. This company uses a tablet-based game with predictive analytics to quantify the traits of respondents in a globally standardised way. These traits include "grit" and "thinking critically," among others. Analysis of this data, if predictive, can provide insight into the skills and hidden talent that can lead toward potential types of careers; and the outcomes can be compared to those of respondents from across the globe. This may also allow the identification of traits that may be holding workers back from excelling and provide concrete policy guidance for interventions. Overall, the data reveal that

⁵ Raven's test is a nonverbal group test typically used to measure abstract reasoning and fluid intelligence.

men show higher Knack scores in areas such as “acting with self-confidence,” “growth mindset,” and “thinking creatively,” while women tend to have a higher score in the “engaging with people” dimension.

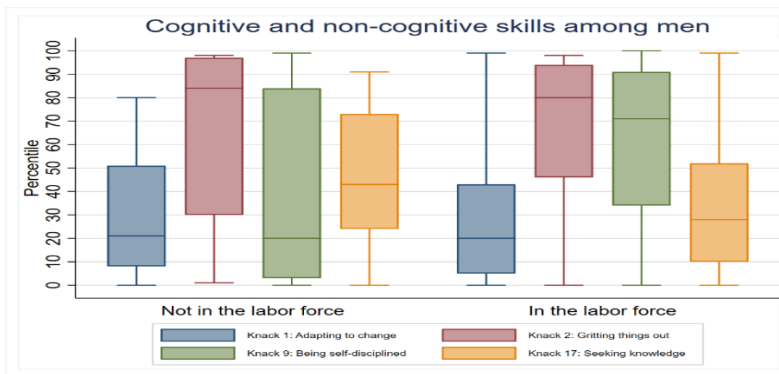
The data reveal two general observations about gender and labour force participation. First, working women tend to have different traits than nonworking women. Figure 6 shows that working women show a higher score in “being self-disciplined,” but a lower score in “seeking knowledge” than nonworking women. Second, working men show an even higher score in “being self-disciplined” than working women (Figure 7), while working women score higher than working men in “gritting things out.”

Figure 6: Cognitive and Noncognitive Skills among Women, In and Not in the Labour Force



Source: Estimated from the primary data of DIGNITY survey.

Figure 7: Cognitive and Noncognitive Skills among Men In and Not in the Labour Force



Source: Estimated from the primary data of DIGNITY survey.

4.4 Childcare

The presence of children, particularly children younger than five years old, has been shown to be a constraint to FLFP in Bangladesh and in other countries (Solotaroff *et al.* 2019). The DIGNITY data show that, while most women have children, there are differences in the characteristics of the children and in access to childcare between those women who are in the labour force, and those who are not. Table XI compares these characteristics. Nonworking women are more likely to have children than working women (87 vs. 84 per cent), and their children tend to be younger (7.2 vs. 8.4 years old). Finally, when looking at the figures for young children who need care, the difference becomes more noticeable. While 32 per cent of working women have a child that needs care, this ratio is 15 percentage points higher among women who do not work. The DIGNITY data suggest, therefore, that lack of access to childcare appears to be related to women not being in the labour force—or the decision to work at home instead of outside of the home—since the majority of women report that they cannot find childcare when it is needed.⁶

TABLE XI
NEED FOR CHILDCARE

	In the labour force		Not in the labour force		Test (In - out of the labour force)
	Mean	SD	Mean	SD	
Has a child (1/0)	0.84	0.37	0.87	0.34	
Age of youngest child (continuous years)	8.42	5.86	7.22	6.78	***
Has child below 5 years age (1/0)	0.32	0.47	0.47	0.50	***
Childcare is available when required (1/0)	0.15	0.36	0.12	0.33	
N	753		508		

Note: Table shows weighted means of labour force participant and non-participant women. * p<0.1; ** p<0.05; *** p<0.01.

The unmet demand for childcare appears to be large, particularly among working women. The DIGNITY survey also asked respondents with young children about their childcare arrangements while at work. While 63 per cent of men rely on their spouses for childcare, only about 13 per cent of working women can do so (see Table XII). However, the time that husbands spend in taking care of children (even when the husband is the caregiver) is also relatively limited. In such a situation, working women use other alternatives, such as help from other household members (16 per cent) or from relatives outside of the household (14 per cent). This apparently leaves a large number of children being cared for by no

⁶ The question is “If you wanted to do something (livelihood-related, training-related and self-care) and could not take your child with you, is there someone who could care for your child in your absence?” and the responses are “yes/no.”

one. It should be noted that some children may be old enough to take care of themselves,⁷ while in other cases, the parents might be working close by. Interestingly, very few people use formal arrangements such as a school or nursery, which may suggest something about the affordability or availability of formal childcare.

TABLE XII
UNMET DEMAND FOR CHILDCARE

	Male		Female		Test (Male - Female)
	Mean	SD	Mean	SD	
Spouse (1/0)	0.63	0.48	0.13	0.34	***
Other household member (1/0)	0.09	0.29	0.15	0.36	***
Relative not living in the house (1/0)	0.05	0.23	0.14	0.34	***
Other individual (1/0)	0.01	0.08	0.02	0.13	**
School/nursery/other facilities (1/0)	0.00	0.07	0.01	0.10	
No one (1/0)	0.21	0.41	0.55	0.50	***
N	772		516		

Note: Table shows weighted means of sample that participate in the labour force. The question about caretakers is administered to adults with a youngest child younger than 15; the average age of children discussed is 5.6 years. * p<0.1; ** p<0.05; *** p<0.01.

4.5 Transportation

Access to transportation is of key importance in accessing job opportunities. However, men and women tend to have different kinds of experience with transportation in terms of affordability, reliability, and safety. Recent research has shown high levels of gender-based violence (GBV) in public transport and the adjacent public spaces in many cities around the world (Dominguez Gonzalez, Arango, McCleary-Sills and Bianchi 2015). In Bangladesh, a recent study in the Dhaka area by BRAC reveals that 94 per cent of female users of public transportation have experienced verbal, physical, or other forms of sexual harassment. Moreover, 20.5 per cent of women have stopped using public transportation due to sexual harassment (*The Daily Star* 2018). Such constraints may cause women to modify their travel patterns and thus their choice of employment. Analysis of daily commuting patterns in Dhaka shows that members of the poorest quintile predominantly commute by foot, with a mean travel time of 40 minutes, and the average distances travelled by women are even shorter. The physical limits of commuting on foot mean nearly all workers in the poorest quintile live within 4-5 kilometer from their place of employment, thereby curtailing their employment opportunities (Hill and Rahman 2019).

⁷ Even when looking at the results for children younger than five years old, many parents (38 per cent of women and 6 per cent of men) reported that no one was taking care of their children while they are at work.

Analysis of the DIGNITY data in Table XIII suggests that unequal access to transportation appears to be a constraint for women's work. Only 35 per cent of working women travel outside their community to work, in sharp contrast to men, where working outside the community is the norm for the majority (56 per cent). Data about modes of transportation used by workers underscore the gender gaps. Women rely heavily on walking to get to work, about 13 percentage points higher than men. Moreover, very few women use public buses for commuting; only about 3 per cent take buses to go to work, while 8 per cent of men take the bus. Finally, the data also reveal that women spend roughly the same amount of time as men commuting to work. For example, female garment workers and maids spend roughly 18 minutes in their commute to work. This pattern suggests that women face a constraint finding jobs close to their dwellings.

As indicated in studies on GBV, the risk of GBV inside buses is a strong constraint that prevents women from using buses and taking employment opportunities that are located further away from their homes. The data on travel time shows that travel costs for women are much lower than that of male workers (14 *taka* vs. 25 *taka*); but their commute time is longer than men's (19 minutes each way, compared to 17 minutes for men). The risk of sexual harassment and assault may explain the low rate of female uptake in public transportation.

TABLE XIII
EMPLOYMENT AND TRANSPORTATION

	Male		Female		Test (Male - Female)
	Mean	SD	Mean	SD	
Works at home (1/0)	0.10	0.30	0.25	0.43	***
Works within the community (1/0)	0.34	0.47	0.40	0.49	**
Works outside the community (1/0)	0.56	0.50	0.35	0.48	***
Transport used for work					***
Walk (1/0)	0.74	0.44	0.87	0.34	***
Bicycle (1/0)	0.04	0.00	0.00	0.00	***
Rickshaw/cycle van (1/0)	0.09	0.18	0.02	0.12	***
Bus (1/0)	0.08	0.27	0.03	0.18	***
Cost of one-way travel to a job (BDT)	24.76	21.56	13.85	10.58	***
Time for one-way travel to non-home work (minutes)	16.66	13.40	19.17	12.89	***
N	1,085		653		

Note: Table shows weighted means of transport utilisation and characteristics among individuals who participate in the labour force. * $p < 0.1$; ** $p < 0.05$; *** $p < 0.01$.

4.6 Perceptions, Gender Norms, and Attitudes

Gender norms affect women's ability to participate in the workforce. These norms can be unpacked into several areas that directly constrain women's ability to work, including mobility restriction and seclusion, among other things. While

women's roles in the economic sphere have expanded, conservative gender norms may still be restricting their physical mobility and imposing various social practices on them in relation to the observance of *purdah*. These social practices are seen in conventions or rules about veiling, ranging from the wearing of simple head scarves to full-body burqas (Ahmed and Sen 2018). Moreover, these norms promote the seclusion of women, enforce their exclusion from public places, and specify gender-specific labour (Amin 1997). In addition, as elsewhere, GBV affects Bangladeshi women: in 2015, more than half of married women (54.7 per cent) reported experiencing violence at home during the past 12 months. In addition, more than 25 per cent of women have experienced physical violence from non-partners during their lifetime, and 6.2 per cent reported experiencing it in the past 12 months. The prevalence rate is lowest in city corporation areas (16 per cent), which is lower than the urban average (24 per cent), as well as that in rural areas (29 per cent) (BBS 2016).

The DIGNITY data reveal large gender gaps in mobility; women, on average, have more limited mobility than men and tend to be homebound, with little freedom to travel outside their communities. While 84 per cent of men go outside of their community every day, only 40 per cent of women do so (see Table XIV). What's more, a quarter of women only leave their community once a month, and one in ten never leaves her community. This means that there are many women in Dhaka that live life as if they were in a remote village, even though they live in one of the biggest cities in the world. Going outside the community is often not a decision made unilaterally: 35 per cent of women said that they have to ask permission from someone in their household before going outside their community.

TABLE XIV
FREQUENCY OF TRAVEL OUTSIDE THE HOME

	Male		Female		Test (Male - Female)
	Mean	SD	Mean	SD	
Frequency of travel outside the home					
Every day	0.84	0.37	0.40	0.49	***
At least once a week	0.09	0.28	0.12	0.32	**
At least once every two weeks	0.01	0.12	0.04	0.20	***
At least once a month	0.02	0.14	0.10	0.30	***
Less than once a month	0.03	0.17	0.25	0.43	***
Never	0.01	0.12	0.09	0.29	***
Time spent (by space - in hours)					
At home	13.85	5.09	20.45	4.63	***
Outside home but within the community	4.50	5.44	2.17	3.80	***
Outside the community	5.66	6.18	1.39	3.53	***
N	1,117		1,259		

Note: Table shows weighted means of how frequently individuals travel outside the home. * p<0.1; ** p<0.05; *** p<0.01.

Women's freedom to leave the house, enter public spaces, and participate fully as citizens is an important element in their economic empowerment. Collecting the location of activity data is another innovation of the time-use module in the DIGNITY survey. In addition to asking about activities that respondents have performed over the past 24 hours, the survey also asks where the activities take place—at home, outside the home, but inside the community, or outside the community. The results reveal a stark contrast in mobility between genders: men spend four times the amount of time that women do outside the community. The time-use module of the survey reveals that women spend more time at home than men (20 vs. 14 hours per day), while men spend more time than women outside the home, but in the community (4.5 vs. 2.2 hours), and outside the community (5.6 vs. 1.4 hours per day). In short, women spend more than four-fifths of their day homebound.

The risk of GBV also greatly impacts women's decision making. Concerns about safety and security play a large role in determining whether a woman will participate in the labour force. Violence and abuse against women in public spaces and in the workplace are not uncommon. This issue is particularly acute in urban settings, where women, largely poor, are heavily reliant on walking as their primary mode of commuting. The DIGNITY data reveal a big gender gap in perception of safety, especially outside the home. Risk of sexual harassment while being outside the home may therefore be one of the main constraints for women in seeking employment.

Most women feel safe at home during the day (98 per cent), which is the same rate as for men.⁸ But there is a large gender gap for perceptions of night-time safety outside the home. The percentage of women who reported that they feel safe outside the home at all times (either on their own street or outside their community) is only 69 per cent, compared to 96 per cent of men. This data shows that the perception of safety has a disproportionate effect on women. Such gender differences may affect their decision to travel outside the home and to participate in economic activities.

Social norms are also reflected in veiling practices. Women reported modifying their veiling practices when they travel further away from their home. About 50 per cent of female respondents reported that they wear a burqa when they go outside of their neighbourhood, while about 20 per cent said they only cover their heads with headscarves while in the neighbourhood, but that they wear a burqa when going outside of their neighbourhoods.

⁸ Data not shown in the table.

TABLE XV
**PERCEPTIONS, NORMS AND ATTITUDES ABOUT
 SAFETY AND FREEDOM OF MOVEMENT**

Perceptions, norms and attitudes	All women		Not in the labour force		In the labour force		Test (In - out of the labour force)
	Mean	SD	Mean	SD	Mean	SD	
Needs permission to go outside (1/0)	0.35	0.48	0.37	0.48	0.33	0.47	
Feels safe outside home (1/0)	0.69	0.46	0.63	0.48	0.73	0.44	***
Wears veil (burqa) when walking outside own neighbourhood (1/0)	0.49	0.5	0.59	0.49	0.42	0.49	***
N	1,261		508		753		

Note: Table shows weighted means for women. * p<0.1; ** p<0.05; *** p<0.01.

Finally, Table XV reveals a sharp contrast in the indicators related to agency⁹ between working and nonworking women. While 37 per cent of nonworking women need to seek permission to go outside the community, only 33 per cent of working women do. Similarly, working women tend to have a greater perception of their safety; they report feeling safe outside home (either inside the neighbourhood or outside the neighbourhood) much more than women who are not in the labour force (73 per cent vs. 63 per cent). Veiling practices are also associated with lower employment rates. These relationships will be explored in a multivariate setting in Section V.

V. EXPLORING CONSTRAINTS TO WORK

This section explores how the factors in the previous section correlate to three key labour market outcomes: FLFP; employment choice (whether one works as a wage earner or is self-employed); and labour supply (the amount of time a worker spends working per day). The conditional correlations are explored using a linear model, with neighbourhood fixed effects and robust standard errors. The factors considered here are factors that the narrative on female labour market outcomes would suggest are important, but the relationships presented in this section are purely linear correlations: they do not indicate a causal or deterministic relationship. Selection into labour market participation has not been modeled for the regressions presented on employment choice and labour supply.

The right-hand side variables are similar across the models. These variables include age, age at marriage, marital status, household size, years of education

⁹Agency means an individual's (or group's) ability to make effective choices and to transform those choices into desired outcomes. Agency can be understood as the process through which women and men use their endowments and take advantage of economic opportunities to achieve desired outcomes (World Bank 2011).

completed, years of completed education squared, whether the respondent received technical and vocational education and training (TVET), has a child that requires care, is in a male-headed household, number of years spent in the community, whether they were born in the community, and whether the respondent is depressed (CESD Score > 10). Additional variables related to gender norms are added in order to model specification of regressions for female labour market outcomes—for example, whether the respondent needs permission to go outside the community, feels safe outside the home, and/or wears a burqa whenever outside the home—and also data about the educational level of the spouse.

Table XVI presents the correlates of female labour force participation (FLFP). The model is restricted to women, since most men (97 per cent) participate in the labour market. Younger women are marginally more likely to participate in the labour force, and they are 0.5 percentage points more likely to work for each year younger than they are. The probability of being in the labour force increases by 35 percentage points among never-married women. Women with more education are also less likely to participate in the labour force: each additional year of education reduces labour force participation (LFP) by 4.2 percentage points. While this result may seem surprising, it fits with the U-shaped curve relationship between education level and FLFP in Bangladesh (mentioned in section II of this paper). Specifically, they are located in the left part of the U-shaped curve, as DIGNITY is collected from the low-income areas (the average years of completed education for women is only 3.5 years). However, those with TVET are significantly more likely to work (by 23.1 percentage points), suggesting that TVET is undertaken with specific employment opportunities in mind. In line with the existing literature, women with children five years of age or less that require care are 15 percentage points less likely to participate in the labour force. The duration of residence in a community does not appear to be correlated with the decision to enter the labour market.

Perceptions and attitudes are strongly associated with FLFP. Women who perceive the environment outside the home to be safe and who are comfortable travelling outside their homes by themselves are 9.6 percentage points more likely to participate in the labour market. On the flip side, women with conservative outlook¹⁰ are 8.1 percentage points less likely to engage in the labour market. Lastly, depression is strongly associated with LFP: women who report being depressed are 10.5 percentage points more likely to be working. More research may be needed to understand this correlation. However, during fieldwork a few

¹⁰ Conservative outlook is proxied by burqa wearing practice, which is also used by Ahmed and Sen (2018) and Asadullah and Wahhaj (2019).

women reported that the ideal is to not be working, and that they worked only because they had to for financial reasons rather than because they wanted to. This dissatisfaction with life outcomes may account for what is being expressed in this variable.

Table XVII presents the coefficients of a model that explores the correlates of employment type: that is, whether an individual chooses to engage in wage earning or self-employment. (Note that wage earning takes the value of 1 and self-employment takes the value of 0). Column 1 shows the coefficients for women: younger women¹¹ and women with fewer years of education are more likely to be self-employed (0.5 and 3.5 percentage points respectively). Having gone through TVET is positively associated with being self-employed (27.9 percentage points). Women with children of an age requiring care are similarly more likely to be engaged with self-employment than wage employment. Finally, the probability of being engaged in self-employment rather than wage employment is higher among women who require permission to go outside the home, or who wear burqas when they do. By comparison, younger men are more likely to be self-employed.

Using time-use data with a 24-hour recall period from 4 am the previous day to 3:59 am on the day of the survey, we explored the correlates of the number of hours an individual decided to work (Table XVIII). Among women, while the number of years of education is negatively associated with labour supply (15.8 percentage points), based on the positive sign and significance (1 per cent < p) of the quadratic term (1.4 percentage points), this correlation may reverse as the amount of education increases (see Table XVIII, Column 1). Understandably, a woman with a child requiring care is similarly likely to spend less time at work (by 49.6 percentage points). In line with previous models, age is the sole significant correlate of the length of time a male individual spends at work that is negatively correlated; that is, younger men are likely to spend less time at work (by 1.1 percentage points).

The analysis also explores whether there are any differences between slum and non-slum areas in terms of constraints to women's labour market participation. Table A.I in the Annex presents the results of whether being in slums changes the magnitude of correlations between respondent characteristics and labour market outcomes. Women who have TVET and who live in slum areas are 20.9 percentage points more likely to engage in the labour force than those in non-slum areas. But in slum areas, women who work tend to have received TVET more than women in other areas.

¹¹ It should be noted that the DIGNITY sample mostly comprises the principal couple of the households, and thus may not capture young women working in the garment industry.

Finally, women who live in slums and who have children who require care are 18.9 percentage points less likely to engage in the labour market than non-slum women, suggesting a greater need for childcare in slum areas. This may also suggest that access to childcare (either through formal or informal sources) is more limited for women in slum areas than for women not living in slums. A household with an additional member is associated with an increase in the likelihood (by 5.2 percentage points) of labour force participation among women living in slums. The correlation between other factors, such as duration of living in the community, perceptions about social norms, and LFP does not vary between slum and non-slum areas. Finally, in terms of perception of safety and FLFP, being in a slum is no different from being in a non-slum area.

In the same table, Column 3 examines whether the correlation between respondent characteristics and the choice of whether to engage in wage earning or self-employment differs by type of location. We find that women in slum areas are 0.9 percentage points more likely to work as wage employees as their age increases by one year than women from non-slum settings. With regard to the amount of time spent at work (Table A.1, Column 5), each additional year of education is correlated with 30.5 percentage points more time spent at work by women living in slum areas than non-slum ones. The negative and significant coefficient of the quadratic education term, however, suggests that the effects may reverse for slum-dwelling women faster than for their non-slum counterparts as the number of years of education increases. For women with TVET, the women from slums are likely to spend 96.2 percentage points more time at work than women living in non-slum areas. Lastly, cultural norms such as those that expect women to have permission to go outside appear to play a larger role in slum areas when it comes to the time spent at work: women from slums are likely to spend 79.2 percentage points less time working than their non-slum counterparts.

Next, we examine the correlation of cognitive and noncognitive skills and labour market outcomes using a specification similar to the one used earlier; the results are presented in Table XIX, Table XX and Table XXI. This is assessed separately since the information on cognitive and noncognitive skills was collected from a subset of participants (593 women and 507 men). The results suggest that while traits such as being able to adapt to change, persistence and grit, self-discipline, and/or seeking knowledge are not strongly correlated to whether an individual chooses to engage in the labour market, they *are* significantly correlated to whether the woman chooses wage earning or self-employment (see Table XX, Column 1). Women who are better at adapting to change are 6.3 percentage points—and those who are self-disciplined are 5.7 percentage points—more likely to engage in wage employment. Alternately, women who are persistent and willing to “grit things out” are 10.2 percentage points more likely to be engaged in self-

employment. None of these factors are significantly correlated with the type of employment that men undertake.

Overall, these regressions highlight the fact that the correlates of FLFP are distinct from those of men. First of all, LFP is ubiquitous among the male population in our sample. Delving deeper into the characteristics of men that are correlated with the choice to engage in wage earning or self-employment, in most instances, men seem to be affected very little by demographic, socioeconomic, or societal norms and attitudes. However, these factors are significantly correlated with female LFP. While unmarried women who have no children and who do have TVET are the most likely to be engaged in the labour market, the opposite holds true for married women living in a conservative male-headed household. Businesses in urban spaces are often run from home: this allows for more flexibility, especially for women with young children who require care. Similarly, women from conservative households¹² are more engaged with self-employment, most likely from within their homes.

TABLE XVI
CORRELATES OF LABOUR FORCE PARTICIPATION

	Economic Activity	
	Coef.	Std Err
	(1)	(2)
Age of respondent (completed years)	-0.005**	0.002
Age of marriage	0.002	0.007
Marital status: never married (1/0)	0.350**	0.148
Household size	0.000	0.012
Years of completed education	-0.042**	0.017
Years of completed education (squared)	0.002	0.001
Respondent received TVET (1/0)	0.231***	0.069
Has child (<=5yrs) requiring care	-0.150***	0.042
Lives in male-headed household (1/0)	-0.208***	0.055
Duration in community: continuous years	-0.002	0.003
Born in the community	-0.039	0.070
Needs permission to go outside	-0.005	0.042
Feels safe outside home	0.096**	0.041
Wears burqa whenever outside the home (1/0)	-0.081**	0.040
Education of spouse (for women)	0.008	0.011
Respondent is depressed (CESD Score > 10) (1/0)	0.105**	0.049
R2	0.21	
N	1,247	

Note: Table shows coefficients of a linear model with neighbourhood fixed effects and robust standard errors. As 97 per cent of men participate in the labour force, they are excluded from this model. * p<0.1; ** p<0.05; *** p<0.01.

¹² A conservative household is defined as a household in which women are required to ask permission to go outside the community, or are required to wear a burqa when stepping outside the home.

TABLE XVII
CORRELATES OF WAGE EARNING VERSUS SELF-EMPLOYMENT

	Female		Male	
	Coef.	Std Err	Coef.	Std Err
	(1)	(2)	(3)	(4)
Age of respondent (completed years)	-0.005*	0.003	-0.008***	0.002
Age of marriage	-0.004	0.008	-0.003	0.005
Mar status member: never married (1/0)	0.177	0.229	-0.391	0.316
Household size	0.003	0.012	-0.018	0.012
Years of completed education	-0.035*	0.020	-0.021	0.013
Years of completed education (squared)	0.003	0.002	0.001	0.001
Respondent received TVET (1/0)	-0.279***	0.086	0.034	0.065
Has child (<=5yrs) requiring care	-0.165***	0.050	-0.056	0.040
Live in male headed household (1/0)	0.018	0.053	-0.019	0.073
Duration in community: continuous years	-0.003	0.003	0.000	0.003
Born in the community	0.036	0.078	-0.092	0.059
Needs permission to go outside	-0.084*	0.051		
Feels safe outside home	0.013	0.048		
Wears burqa whenever outside the home (1/0)	-0.173***	0.046		
Education of spouse (for women)	-0.005	0.013		
Respondent is depressed (CESD Score > 10) (1/0)	0.058	0.053	-0.033	0.062
R2	0.31		0.22	
N	742		1,001	

Note: Table shows coefficients of a linear model with neighbourhood fixed effects and robust standard errors. The dependent variable takes on the value of 1 if the person engages in wage employment, and the value of 0 for the self-employed. Sample is restricted to individuals who report being in the labour force in the past 30 days. Questions such as the need to ask for permission to go outside, perceptions of safety, and burqa wearing are asked of female respondents only, and as such are left out of the male-specific model. * p<0.1; ** p<0.05; *** p<0.01.

TABLE XVIII
CORRELATES OF HOURS SPENT AT WORK (LOG-LINEAR OUTCOME)

	Female		Male	
	Coef.	Std Err	Coef.	Std Err
	(1)	(2)	(3)	(4)
Age of respondent (completed years)	-0.010	0.008	-0.011**	0.005
Age of marriage	0.006	0.025	-0.002	0.010
Marital status: never married (1/0)	0.040	0.627	-0.341	0.653
Household size	-0.018	0.046	0.034*	0.021
Years of completed education	-0.158**	0.063	-0.003	0.025
Years of completed education (squared)	0.014***	0.005	0.001	0.002
Respondent received TVET (1/0)	-0.696**	0.271	-0.027	0.127
Has child (<=5yrs) requiring care	-0.496***	0.158	-0.066	0.077
Lives in male-headed household (1/0)	-0.131	0.169	-0.127	0.096
Duration in community: continuous years	0.005	0.010	-0.009	0.006
Born in the community	0.262	0.298	-0.244*	0.137
Needs permission to go outside	-0.152	0.160		
Feels safe outside home	0.151	0.150		
Wears burqa whenever outside the home (1/0)	-0.219	0.173		
Education of spouse (for women)	-0.002	0.042		
Respondent is depressed (CESD Score > 10) (1/0)	-0.227	0.175	-0.199	0.145
R2	0.26		0.12	
N	742		1,001	

Note: Table shows coefficients of a linear model with neighbourhood fixed effects and robust standard errors. Sample restricted to individuals who report being in the labour force in the past 30 days. Questions concerning the need to ask for permission to go outside, perceptions of safety, and burqa wearing are asked only of female respondents, and as such are left out of the male-specific model. * p<0.1; ** p<0.05; *** p<0.01.

TABLE XIX
CORRELATION BETWEEN COGNITIVE AND NONCOGNITIVE
SKILLS AND FEMALE ECONOMIC ACTIVITY

	Female	
	Coef.	Std Err
	(1)	(2)
(Ln) Knack 1: Adapting to change	0.007	0.030
(Ln) Knack 2: Gritting things out	0.038	0.031
(Ln) Knack 9: Being self-disciplined	0.026	0.022
(Ln) Knack 17: Seeking knowledge	-0.044	0.033
Age of respondent (completed years)	-0.003	0.003
Age of marriage	-0.002	0.009
Household size	0.003	0.016
Years of completed education	-0.036	0.023
Years of completed education (squared)	0.001	0.002
Respondent received TVET (1/0)	0.293***	0.087
Has child (<=5yrs) requiring care	-0.193***	0.051
Lives in male-headed household (1/0)	-0.169**	0.074
Duration in community: continuous years	-0.004	0.004
Born in the community	-0.058	0.094
Needs permission to go outside	-0.022	0.053
Feels safe outside home	0.099*	0.053
Wears burqa whenever outside the home (1/0)	-0.082	0.053
Education of spouse (for women)	0.007	0.014
Respondent is depressed (CESD Score > 10) (1/0)	0.073	0.063
R2	0.25	
N	593	

Note: Table shows coefficients of a linear model with neighbourhood fixed effects and robust standard errors. As 97 per cent of men participate in the labour force, they are excluded from this mode. * p<0.1; ** p<0.05; *** p<0.01.

TABLE XX
CORRELATION BETWEEN COGNITIVE AND NONCOGNITIVE
SKILLS AND TYPE OF EMPLOYMENT (Wage or Self- Employment)

	Female		Male	
	Coef.	Std Err	Coef.	Std Err
	(1)	(2)	(3)	(4)
(Ln) Knack 1: Adapting to change	0.063*	0.035	0.005	0.031
(Ln) Knack 2: Gritting things out	-0.102***	0.039	-0.026	0.027
(Ln) Knack 9: Being self-disciplined	0.057**	0.025	-0.032	0.020
(Ln) Knack 17: Seeking knowledge	-0.012	0.042	-0.032	0.032
Age of respondent (completed years)	-0.003	0.004	-0.006**	0.002
Age of marriage	-0.001	0.009	-0.003	0.006
Household size	0.011	0.016	-0.021	0.015
Years of completed education	-0.017	0.026	-0.005	0.017
Years of completed education (squared)	0.002	0.002	0.000	0.002
Respondent received TVET (1/0)	-0.356***	0.088	0.021	0.083
Has child (<=5yrs) requiring care	-0.151**	0.064	-0.038	0.052
Live in male-headed household (1/0)	-0.014	0.072	-0.067	0.077
Duration in community: continuous years	-0.006	0.004	0.001	0.003
Born in the community	0.059	0.109	-0.108	0.076
Needs permission to go outside	-0.042	0.063		
Feels safe outside home	0.003	0.061		
Wears burqa whenever outside the home (1/0)	-0.170***	0.058		
Education of spouse (for women)	-0.015	0.018		
Respondent is depressed (CESD Score > 10) (1/0)	0.071	0.062	0.012	0.076
R2	0.36		0.23	
N	351		507	

Note: Table shows coefficients of a linear model with neighbourhood fixed effects and robust standard errors. The dependent variable takes on the value of 1 if the person engages in wage employment and the value of 0 for the self-employed. Sample restricted to individuals who report being in the labour force in the past 30 days. Questions concerning the need to ask for permission to go outside, perceptions of safety, and burqa wearing are asked of female respondents only, and as such are left out of the male- specific model. * p<0.1; ** p<0.05; *** p<0.01.

TABLE XXI
CORRELATION BETWEEN COGNITIVE AND NONCOGNITIVE
SKILLS ON THE HOURS SPENT AT WORK

	Female		Male	
	Coef.	Std Err	Coef.	Std Err
	(1)	(2)	(3)	(4)
(Ln) Knack 1: Adapting to change	0.149	0.125	0.033	0.057
(Ln) Knack 2: Gritting things out	0.039	0.108	-0.001	0.060
(Ln) Knack 9: Being self-disciplined	0.121	0.087	0.010	0.055
(Ln) Knack 17: Seeking knowledge	-0.051	0.126	-0.046	0.057
Age of respondent (completed years)	-0.010	0.011	-0.010**	0.005
Age of marriage	0.007	0.031	0.007	0.012
Household size	0.037	0.058	0.039	0.028
Years of completed education	-0.237***	0.077	-0.002	0.029
Years of completed education (squared)	0.019***	0.006	0.001	0.003
Respondent received TVET (1/0)	-0.801***	0.305	-0.084	0.167
Has child (<=5yrs) requiring care	-0.504**	0.205	-0.042	0.093
Lives in male-headed household (1/0)	-0.335	0.229	-0.156	0.097
Duration in community: continuous years	-0.005	0.014	-0.008	0.008
Born in the community	0.039	0.426	-0.192	0.187
Needs permission to go outside	-0.124	0.209		
Feels safe outside home	0.129	0.194		
Wears burqa whenever outside the home (1/0)	-0.282	0.206		
Education of spouse (for women)	0.065	0.054		
Respondent is depressed (CESD Score > 10) (1/0)	-0.303	0.219	-0.219	0.189
R2	0.34		0.16	
N	351		507	

Note: Table shows coefficients of a linear model with neighbourhood fixed effects and robust standard errors. Sample restricted to individuals who report being in the labour force in the past 30 days. Questions concerning the need to ask for permission to go outside, perceptions of safety, and burqa wearing are asked of female respondents only, and as such are left out of the male-specific model. * p<0.1; ** p<0.05; *** p<0.01.

VI. CONCLUSION

Labour income growth has been the fundamental driver of poverty reduction in Bangladesh in recent years (Joliffe *et al.* 2013, Hill and Genoni 2018). However, during the past five years, urban poverty reduction has stagnated and, perhaps without coincidence, this has also been a period in which FLFP rates have fallen. As Bangladesh continues to urbanise, understanding the factors that constrain FLFP in urban areas is increasingly important in order to understand how urban income growth and poverty reduction can be ensured.

Although the decline in FLFP may be driven in part by changes in the demand for female labour in the RMG sector in recent years, it is also possible that it is driven by supply-side factors—for example, norms around women's work and travel outside the home, and factors that determine the cognitive and noncognitive skills of women as they contemplate entering the workforce. This paper has

explored the factors that constrain women from engaging in the labour market. It uses a unique new dataset to provide individual-level data on labour market participation, time use, norms, and both cognitive and noncognitive skills.

The paper highlights the fact that FLFP is higher in low-income neighbourhoods and slums than in the city as a whole, showing again that FLFP tends to be lower at higher levels of income. At the individual level we also find that women with more education are less likely to work, another indicator of the same relationship. The results also show the well-known finding that, although nearly all men work, FLFP is strongly determined by demographics—for example, by whether a woman is married or not, and by her age.

However, the unique dataset used in this paper also allows us to quantify other important correlates of the labour force participation (LFP) decision. Access to childcare was shown to be strongly correlated with FLFP, and is perhaps one of the main drivers of demographic patterns of female employment found in the data. Women with children less than five years old are 15 percentage points less likely to be engaged in work than women with no children, or with older children. In addition, women reported that access to childcare was a main constraint, and detailed time-use data show that women are often looking after children even when they are engaged in other activities, something that would be impossible to do if working away from home. This points to the need to consider childcare when thinking about how to increase labour income for women in urban areas. This is a challenge that does not exist to the same extent in rural areas, where work is more often in and around the house or farm.

Soft skills were also shown to be an important correlate of the nature of work that women engage in. Women who showed stronger skills in “being disciplined” were more likely to be employees; those with less discipline but more determination were more likely to be self-employed. This could point to the value of soft-skill training, and/or mentorship programmes to help women find jobs that they are better suited to, or to help them learn the soft skills that emerging employment opportunities require.

However, perhaps the strongest findings from the data were the importance of mobility, the fear about safety in public spaces, and the implications of these factors for FLFP. The survey revealed that public spaces in Dhaka are often male-dominated spaces, and that this is correlated with women’s decisions about employment. Men spend four times more time outside of their communities than women do. A quarter of women only leave their community once a month, and one in ten never leaves her community at all. This means that there are many

women in Dhaka that live life as if they were in a remote village, even though they live in one of the biggest cities in the world.

The notion that social norms play an important role in determining FLFP is not new, but this survey has provided a unique ability to quantify the strength of the correlation between these norms, perceptions, and labour participation. About 50 per cent of the women interviewed wear a burqa outside of their community, and 30 per cent report not feeling safe in their communities. Not surprisingly, women who do not feel that the environment outside of their house is safe are ten percentage points less likely to participate in the labour market. Also, those who wear burqas are eight percentage points less likely to engage in the labour market. The data showed that many women in Dhaka are in both categories. The analysis does not point to a causal relationship between these norms and participation in the labour market, but it does highlight the fact that norms are very different between women who work and those who do not. Finally, the evidence is consistent with the notion that, for many women, working is not deemed desirable, and is something that is not associated with feeling happy about life.

New data and findings from this report could provide evidence for novel interventions to boost female labour force participation in urban areas. The report shows that many families do not have access to childcare, while very few use formal childcare centres. In this regard, community-based childcare, like Guatemala's Community Day Care Centres Programme, could be an option. Such programmes usually organise parents in poor urban areas into a small group and choose a woman from the group to be the care provider. The provider will care for the children, while the cost will be covered by the parents and the government (Ruel *et al.* 2002). An impact evaluation by Hallman *et al.* (2005) suggests that interventions to make formal day-care in poor urban areas more affordable may increase the labour hours of mothers living in the neighbourhoods. Public childcare programmes, like Rio de Janeiro's public day-care programme in Brazil, could be another option. The programme provides a childhood development programme for infants and children from 0-3 years living in low-income neighbourhoods. Barros *et al.* (2013) find that access to the programme led to a very high utilisation rate and a substantial increase in mothers' employment (from 36 to 46 per cent). In terms of safety in the community, programmes like UN-HABITAT's global Safer Cities Programme could be a useful starting point in reassessing the earlier initiative to address crime and violence activities in low-income communities (UN-HABITAT 2011).

In future research, it will be important to continue to explore the relationship between social norms and participation in the labour market in order to identify

interventions that could help encourage FLFP. The evidence indicates that making public spaces more female-friendly, travel safer for women, and female work more socially acceptable may be important in order to increase the ability of women to grow their families' incomes happily, and free of fear. Policy goals and actions should support women who choose to work in urban areas of Bangladesh, as opposed to simply being compelled to work due to economic necessity. Otherwise, the country's gain in FLFP may start to erode, as urban households move out of extreme poverty. Ideally, women's work should be rooted in economic empowerment and viewed as a means for gaining prosperity and progression to a middle-class society.

REFERENCES

- Ahmed, T. and B. Sen. 2018. "Conservative Outlook, Gender Norms and Female Wellbeing: Evidence from Rural Bangladesh." *World Development*, 111: 41-58.
- Amin, S. 1997. "The Poverty-Purdah Trap in Rural Bangladesh: Implications for Women's Roles in the Family." *Development and Change*, 28 (2): 213-33.
- Asadullah, M. Niaz and Z. Wahhaj. 2019. "Female Seclusion from Paid Work: A Social Norm or Cultural Preference?" *ECARES Working Paper 2019-10*.
- BBS (Bangladesh Bureau of Statistics). 2014. *Population and Housing Census 2011*. Ministry of Planning, Government of the People's Republic of Bangladesh, Dhaka, Bangladesh.
- _____. 2016. *Census of Slum Areas and Floating Population 2014*. Ministry of Planning, Government of the People's Republic of Bangladesh, Dhaka, Bangladesh.
- _____. 2016. *Report on Violence Against Women Survey 2015*. Ministry of Planning, Government of the People's Republic of Bangladesh. Dhaka, Bangladesh.
- _____. 2018. *Report on Labour Force Survey (LFS) 2016-17*. Ministry of Planning, Government of the People's Republic of Bangladesh. 2018. Dhaka, Bangladesh.
- Banks, Nicola. 2013. "Female Employment in Dhaka, Bangladesh: Participation, Perceptions and Pressures." *Environment and Urbanization*, 25 (1): 95-109.
- Barros, Ricardo Paes de, Pedro Olinto, Trine Lunde, and Mirela Caralho. 2013. "The Impact of Access to Free Childcare on Women's Labour Market Outcomes: Evidence from a Randomized Trial in Low-income Neighborhoods of Rio de Janeiro" (English). enGender Impact: The World Bank's Gender Impact Evaluation Database. Washington, DC: World Bank.
- Bloom, David E., and Jocelyn E. Finlay. 2009. "Demographic Change and Economic Growth in Asia." *Asian Economic Policy Review*, 4 (1): 45-64.

- Bridges, S., D. Lawson, and S. Begum. 2011. "Labour Market Outcomes in Bangladesh: The Role of Poverty and Gender Norms." *European Journal of Development Research*, 23: 459.
- Daily Star. 2018. *Public Transport: 94 Per cent of Women Harassed*. March 07, 2018.
- Dominguez Gonzalez, K., D. Arango, J. McCleary-Sills and B. Bianchi. 2015. *Violence Against Women and Girls (VAWG) Resource Guide, Transport Brief*. Retrieved from <http://www.vawgresourceguide.org/sector-briefs> on March 21, 2019.
- Farole, T., and Y. Cho. 2017. *Jobs Diagnostic Bangladesh*. Job Series Issue 9, Washington, DC: World Bank.
- Hallman, Kelly, Agnes R. Quisumbing, Marie Ruel and Bénédicte de la Brière. 2005. "Mothers' Work and Child Care: Findings from the Urban Slums of Guatemala City." *Economic Development and Cultural Change*, 53(4): 855-885.
- Hill, R. and M. E. Genoni. 2019. *Bangladesh Poverty Trends 2010/11–2016/17*. Washington, DC: World Bank.
- Hill, R. and Z. Rahman. 2019. *Poverty in Urban Bangladesh*. Background Paper prepared for the Bangladesh Poverty Assessment. World Bank Group. April 2018.
- Hossain, Julaikha B. and Kyoko Kusakabe. 2005. "Sex Segregation in Construction Organizations in Bangladesh and Thailand." *Construction Management and Economics*, 23(6): 609-619.
- Jolliffe, Dean, Iffath Sharif, Lea Gimenez, and Faizuddin Ahmed. 2013. *Bangladesh Poverty Assessment: Assessing a Decade of Progress in Reducing Poverty, 2000-2010 (English)*. Bangladesh Development Series; Paper No. 31. Washington, DC: World Bank.
- Kabeer, Naila. 2013. "Paid Work, Women's Empowerment and Inclusive Growth." *UN Women Policy Paper*. UN Women.
- _____. 2017. "Economic Pathways to Women's Empowerment and Active Citizenship: What Does the Evidence from Bangladesh Tell Us?" *The Journal of Development Studies*, 53 (5): 649-63.
- Klasen, S., and J. Pieters. 2015. "What Explains the Stagnation of Female Labour Force Participation in Urban India?" *The World Bank Economic Review* 29 (3): 449–78.
- Mahmud, S. and S. H. Bidisha. 2018. "Female Labour Market Participation in Bangladesh: Structural Changes and Determinants of Labour Supply." In S. Raihan (ed.), *Structural Change and Dynamics of Labour Markets in Bangladesh* (pp. 51-64). Singapore: Springer.
- Rahman, Rushidan I., and Rizwanul Islam. 2013. "Female Labour Force Participation in Bangladesh: Trends, Drivers and Barriers." *ILO Asia-Pacific Working Paper Series*. International Labour Organization.

- Ruel, M. T., B. de la Briere, K. Hallman, A. Quisumbing, and N. Coj. 2002. "Does Subsidized Childcare Help Poor Working Women in Urban Areas? An Evaluation of a Government-Sponsored Program in Guatemala City." FCND Discussion Paper 131, IFPRI: Washington, DC.
- Salway, Sarah, Sonia Jesmin, and Shahana Rahman. 2005. "Women's Employment in Urban Bangladesh: A Challenge to Gender Identity?" *Development and Change*, 36 (2): 317-49.
- Solotaroff, Jennifer L., Aphichoke Kotikula, Tara Lonnberg, Snigdha Ali, Rohini P. Pande, and Ferdous Jahan. 2019. *Voices to Choices: Bangladesh's Journey in Women's Economic Empowerment*. International Development in Focus. Washington, DC: World Bank.
- UN-DESA. 2018. *2018 Revision of World Urbanization Prospects*. Population Division of the United Nations Department of Economic and Social Affairs (UN DESA).
- UN-HABITAT. 2011. *Building Urban Safety through Slum Upgrading*. United Nations Human Settlements (UN-HABITAT).
- World Bank. 2011. *World Development Report 2012: Gender Equality and Development*. Washington, DC: World Bank.
- _____. 2018. *South Asia Economic Focus, Spring 2018: Jobless Growth?* Washington, DC: World Bank.
- _____. 2019. *World Development Indicators*. Washington, DC: World Bank.

ANNEX

Sampling Weights and Probability of Selection

The probability of selection of the sample was calculated separately for each stage and enumeration area (EA) using the following specification:

$$P_{ij}^1 = n_j \frac{M_{ij}}{\sum M_{ij}}$$

where the probability of the i^{th} EA being selected from the j^{th} stratum is presented by P_{ij}^1 . n_j represents the number of selected EAs within each stratum. The number of households in the i^{th} EA in the j^{th} stratum is represented by M_{ij} , while $\sum M_{ij}$ represents the total number of households in the stratum.

The probability of the second stage of the selection process is estimated using the following specification:

$$P_{ij}^2 = \frac{h_{tij}}{H_{tij}}$$

where the probability of a household being selected for the sample is represented by P_{ij}^2 . h_{tij} is the number of households of type t in EA i in stratum j selected to be surveyed from a total number of households (H_{tij}) within each EA and the particular category.

The overall likelihood of a particular household being selected from a particular stratum is therefore represented as the product of the two aforementioned probabilities, calculated as follows:

$$P_{ij} = P_{ij}^1 \times P_{ij}^2$$

The weight is subsequently constructed as the inverse of the likelihood of a particular household being selected ($1/P_{ij}$).

ANNEX TABLE A.1

HETEROGENEITY OF EMPLOYMENT DYNAMICS ACROSS SLUM AND NON-SLUM AREAS

	Labour force participation		Wage vs self-employment		Time spent at work	
	Coef.	Std Err	Coef.	Std Err	Coef.	Std Err
	(1)	(2)	(3)	(4)	(5)	(6)
Slum X Age of respondent	-0.002	0.004	0.009*	0.005	-0.006	0.018
Slum X Age of marriage	-0.007	0.012	0.016	0.013	0.041	0.043
Slum X Never married	0.324	0.301	-0.134	0.380	-0.379	1.067
Slum X Household size	0.052**	0.020	-0.035	0.025	0.014	0.102
Slum X Years of completed education	0.037	0.037	0.022	0.045	0.305**	0.142
Slum X Years of completed education (sq)	-0.007**	0.003	0.000	0.004	-0.022*	0.012
Slum X Respondent received TVET	0.209**	0.126	0.046	0.151	0.962**	0.479
Slum X Has child (<=5yrs) requiring care	-0.189**	0.077	0.065	0.109	0.135	0.341
Slum X Male-headed household	-0.138	0.102	-0.030	0.108	0.115	0.398
Slum X Duration in community (continuous years)	-0.002	0.005	-0.011	0.007	-0.002	0.020
Slum X Born in the community	0.060	0.121	-0.173	0.171	-0.883	0.545
Slum X Needs permission to go outside	-0.071	0.077	-0.047	0.106	-0.792**	0.310
Slum X Feels safe outside home	-0.025	0.073	-0.133	0.094	0.095	0.291
Slum X Wears burqa whenever outside the home	-0.037	0.076	0.113	0.103	0.168	0.323
Slum X Education of spouse (for women)	0.012	0.024	-0.013	0.025	-0.117	0.082
Slum X Respondent is depressed	0.018	0.085	-0.168	0.117	0.175	0.352
Slum (1/0)	0.569*	0.322	-0.190	0.383	-0.351	1.068
Age of respondent (completed years)	-0.005**	0.002	-0.006**	0.003	-0.007	0.009
Age of marriage (continuous years)	0.004	0.008	-0.006	0.009	-0.002	0.030
Marital. status: never married (1/0)	0.337**	0.171	0.147	0.248	0.187	0.733
Household size	-0.013	0.015	0.012	0.015	-0.008	0.056
Years of completed education	-0.046**	0.020	-0.040*	0.022	-0.185**	0.074
Years of completed education (squared)	0.003*	0.002	0.003	0.002	0.016***	0.006
Respondent received TVET (1/0)	0.206**	0.080	-0.290***	0.099	-0.794**	0.317
Has child (<=5yrs) requiring care	-0.114**	0.049	-0.174***	0.057	-0.503***	0.178
Live in male-headed household (1/0)	-0.191***	0.064	0.037	0.062	-0.165	0.196

(Contd. Annex Table A.1)

	Labour force participation		Wage vs self-employment		Time spent at work	
	Coef.	Std Err	Coef.	Std Err	Coef.	Std Err
	(1)	(2)	(3)	(4)	(5)	(6)
Duration in community: continuous years	-0.002	0.003	-0.001	0.003	0.003	0.012
Born in the community	-0.063	0.084	0.056	0.097	0.420	0.375
Needs permission to go outside	0.009	0.049	-0.080	0.059	-0.040	0.184
Feels safe outside home	0.102**	0.049	0.034	0.057	0.126	0.182
Wears burqa whenever outside the home (1/0)	-0.075	0.046	-0.185***	0.050	-0.238	0.199
Education of spouse (for women)	0.006	0.012	-0.004	0.015	0.007	0.048
Respondent is depressed (CESD Score > 10) (1/0)	0.105*	0.055	0.080	0.060	-0.262	0.194
R2	0.23		0.32		0.28	
N	1,247		742		742	

Notes: Table shows coefficients of a linear model with neighbourhood fixed effects and robust standard errors. Sample is restricted to women. * p<0.1; ** p<0.05; *** p<0.01.