

The State of the Manufacturing Workers in Bangladesh

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Structure of presentation

- Motivation
- Data & Methodology
- Component 1: Socio-demographic Profile including Education and Health of the Workers and Households
- Component 2: Trade Union and Collective Bargaining
- Component 3: Income, Expenditure & Poverty
- Component 4: Women's Empowerment in the Manufacturing Sector

Motivation

•**Disproportionate Growth:** From 2005-06 (base year, 2005-06 = 100) to 2019 (only SMI years), the Gross Output Index increased sixfold (from 100 to over 600) and the Gross Value Added Index increased similarly, while the Real Wage Index only tripled (from 100 to slightly above 300), highlighting a widening disparity.

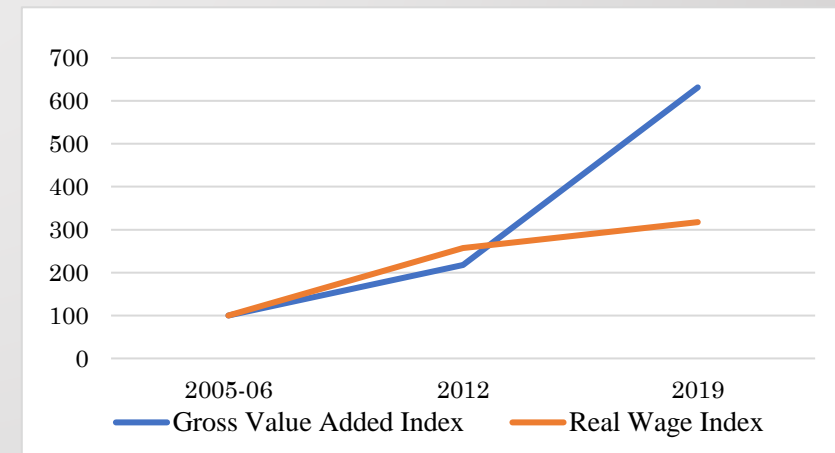
•**Prosperity in Manufacturing sector and Stagnation in Worker Benefits:** Between 2012 and 2019, while the manufacturing sector's gross output and value addition accelerated sharply, reflecting the sector's growing contribution to GDP, real wage growth didn't show that acceleration, rather showed a **significantly divergent gap**. significantly, indicating that workers are not receiving a proportionate share of the sector's economic success

•This growing gap underscores the need to examine how manufacturing workers' wages, living conditions and working conditions, and benefits, motivating a detailed survey to address these critical questions.

Figure 1: Manufacturing sector's output growth and real wage Growth



Figure 2: Manufacturing sector's value addition and real wage Growth



Source: BIDS calculation from SMI and BBS data

Data

The total number of production related workers and daily basis workers of the manufacturing sectors in Bangladesh is stands at 4991590 (SMI, 2019).

$$\text{sample size} = \frac{\frac{z^2 \times p(1-p)}{e^2}}{1 + \left(\frac{z^2 \times p(1-p)}{e^2 N}\right)}$$

N=population size, p=population proportion, e=margin of error (percentage in decimal form), z=z score.

Using 95 percent confidence interval and 1.8 percent margin of error calculated sample is 2,963. Rounding this number total 3005 workers have been surveyed in this study.

Sample selection

- Although the manufacturing sector has experienced significant growth over time, as reflected in the substantial gap between its contribution and the increase in real wages, there have been some increases in real wages overtime.
- Within that increase in wages, there are notable variations in that and other benefits across different industries.
- To examine these variations and better understand the actual living and working conditions of workers in these industries, we conducted this survey across 20 industries, categorized into three broad sectors, .
- This study applied a stratified multistage sampling procedure considering the nature and size of sectors to select the desired 3005 workers for the survey.

Table: Detailed Sampling Distribution

| Sl | Name of the Manufacturing Industries | Number of Workers | Area/Location/Upazila/Police Station |
|-----------|--|--------------------------|---|
| 1 | Manufacture of Export-oriented wearing apparel (readymade garments: Pants, Shirts, Sweater, Hosiery etc.) | 1292 | Dakshinkhan, Darus Salam, Dhamrai Bhasan Tek, Gulshan, Kafrul, Mirpur, Pallabi, Savar, Uttar Khan, Gazipur Sadar, Kaliakair, Rupnagar, Demra, Narayanganj Sadar |
| 2 | Manufacturer of Export-oriented non-RMG industries (Leather Goods, Agro-processing, Jute, Pharmaceuticals etc.) | 863 | Banani, Dhamrai, Savar, Gazipur Sadar, Kaliakair, Sonargaon, Bandar, Rupganj, Keraniganj, Sreepur, Narayanganj Sadar, Rupganj, Kafrul, Pallabi, Rupnagar |
| 3 | Domestic Industries (Apparel, Leather Goods, Textile & Spinning, Food Processing, Plastic Products, Furniture, Electronics & Electric, Paper & Printing, Light Engineering, Road & Iron, Medical Equipment, Ceramics etc.) | 850 | Gulshan, Kafrul, Pallabi, Savar, Gazipur Sadar, Narayanganj Sadar, Hazaribagh, Mirpur, Banani, Badda, Demra, Kaliakair, Sutrapur, Wari, Rupganj |
| | Total | 3005 | |

Workers' selection and quality control

- Based on the location of workers in the respected industries, surveyed locations were divided into several clusters.
- Under three districts (Dhaka, Gazipur, and Naraynganj), around 28 Upazilas/Police Stations or Areas are selected based on the concentration of workers in each industry.
- After that, the workers were randomly selected based on the location of the industries, and at best, ten workers were selected from each industry.
- Seven industry worker leaders, who acted as industry-level worker selection supervisors, helped the enumerators find representative workers for interviews from each area.
- Five researchers from BIDS and two more supervisors supervised the enumerators to control the quality of the interviews.
- Completed a validation workshop with the respondents (workers)

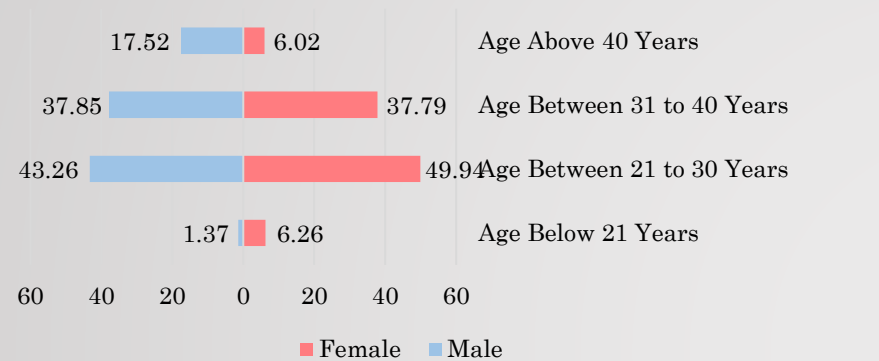
Component 1: Socio-demographic Profile of the Workers and Households

Profile of the Workers

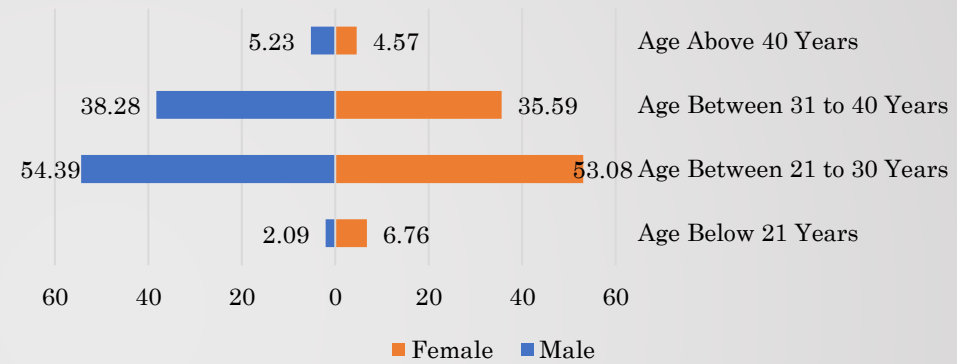
| Demographic characteristics | All Surveyed Industries | Export-Oriented Garments Industries | Non-RMG Export Oriented Industries | Domestic Industries |
|--|-------------------------|-------------------------------------|------------------------------------|---------------------|
| Household size | 3.50 | 3.34 | 3.67 | 3.60 |
| Age of workers (in years) | 30.22 | 28.89 | 31.68 | 30.80 |
| Married male (%) | 71.64 | 73.43 | 74.51 | 67.31 |
| Married female (%) | 77.74 | 78.47 | 80.69 | 73.01 |
| Age of first marriage male (Years) | 23.01 | 22.64 | 23.22 | 23.19 |
| Age of first marriage female (Years) | 16.62 | 16.48 | 17.06 | 16.60 |
| Number of alive children of married women (number) | 1.74 | 1.61 | 1.84 | 2.05 |
| Human capital | | | | |
| No education (%) | 9.48 | 5.73 | 11.06 | 13.46 |
| Primary (1-5) (%) | 37.27 | 36.07 | 36.12 | 40.04 |
| Secondary (6-10) (%) | 42.96 | 47.83 | 41.15 | 37.60 |
| Above Secondary (above 10) (%) | 10.18 | 10.22 | 11.67 | 8.79 |

Age Composition of Workers

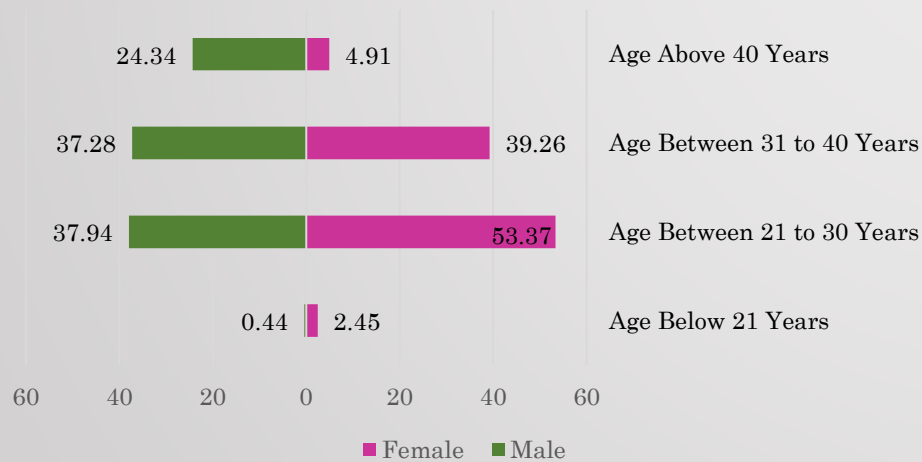
All Surveyed Industries (%)



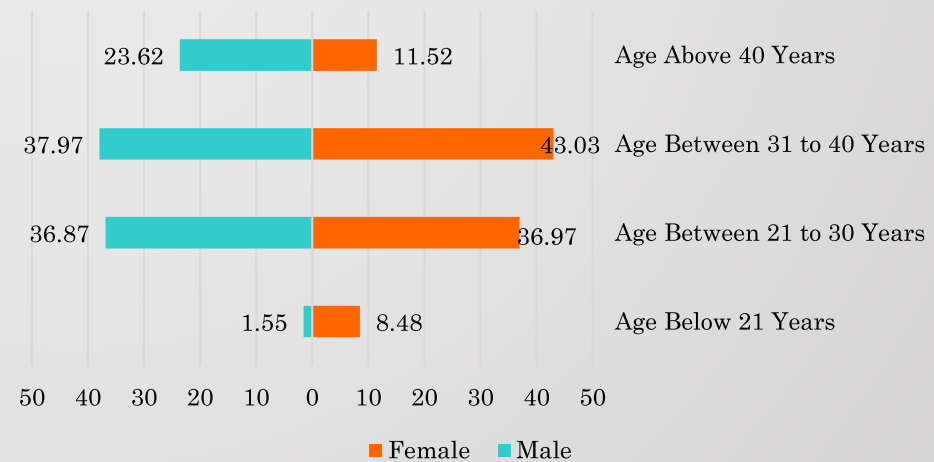
Export-Oriented Garments Industries (%)



Other Export-Oriented Industries (%)



Domestic Industries (%)



Labor market Indicator

| | All Surveyed Industries | Export-Oriented Garments Industries | Other Export-Oriented Industries | Domestic Industries |
|--|-------------------------|-------------------------------------|----------------------------------|---------------------|
| Work Experience in the industry (years) | 5.04 | 4.20 | 6.50 | 4.93 |
| Permanent workers (%) | 78.48 | 95.04 | 62.07 | 69.52 |
| Full time workers (%) | 99.23 | 99.92 | 99.75 | 97.77 |
| On the Job training (%) | 22.47 | 16.26 | 39.95 | 16.76 |
| Average Working Hours (In a week) | 51.08 | 48.82 | 49.79 | 55.47 |
| Average Over time hours(In a week) | 11.96 | 11.94 | 11.82 | 12.19 |
| Average Monthly Wage (including bonus in BDT) | 14524.54 | 15983.79 | 13678.36 | 13196.8 |

Source: BIDS Survey of Manufacturing Workers, 2024

Table: Average Years of Education by Gender and Industry

| Education Status (in years) | All Surveyed Industries | | Export-Oriented Garments Industries | | Other Export Oriented Industries | | Domestic Industries | |
|--|-------------------------|--------|-------------------------------------|--------|----------------------------------|--------|---------------------|--------|
| | Male | Female | Male | Female | Male | Female | Male | Female |
| Father's Average Years of Education | 2.75 | 2.02 | 3.08 | 2.33 | 2.28 | 1.33 | 2.85 | 1.74 |
| Mother's Average Years of Education | 1.92 | 1.33 | 2.22 | 1.53 | 1.55 | 0.83 | 1.96 | 1.21 |
| Average Years of Education Manufacturing Workers | 6.30 | 4.86 | 7.10 | 5.12 | 6.14 | 4.80 | 5.67 | 4.18 |

- Gender gap in education
 - Male workers on average study for 1.44 years more than females
- Parents Education
 - On average fathers have higher average years of education than mothers
- Industry Variations
 - Both male and female workers of RMG factories have higher average years of education compared to other industries.

Source: BIDS Survey of Manufacturing Workers, 2024

Table: Distribution of Worker's Education Level by parent's Education Level

| Father's Education Level | Worker's Education Level | | | |
|----------------------------------|--------------------------|---------------------|-----------------------------|-------------------------|
| | Illiterate | Below Primary Level | Completed Primary Education | Completed JSC and above |
| i. Illiterate | 14.32% | 36.20% | 26.81% | 22.67% |
| ii. Below Primary Level | 3.69% | 37.48% | 30.87% | 27.96% |
| iii. Completed Primary Education | 4.27% | 25.85% | 33.33% | 36.54% |
| iv. Completed JSC and above | 2.89% | 16.27% | 26.25% | 54.59% |
| N | 285 | 970 | 855 | 895 |

| Mother's Education Level | Worker's Education Level | | | |
|----------------------------------|--------------------------|---------------------|-----------------------------|-------------------------|
| | Illiterate | Below Primary Level | Completed Primary Education | Completed JSC and above |
| i. Illiterate | 13.64% | 35.49% | 27.54% | 23.33% |
| ii. Below Primary Level | 3.50% | 35.15% | 29.13% | 32.23% |
| iii. Completed Primary Education | 1.25% | 22.75% | 33.25% | 42.75% |
| iv. Completed JSC and above | 1.57% | 12.57% | 25.65% | 60.21% |
| N | 285 | 970 | 855 | 895 |

Source: BIDS Survey of Manufacturing Workers, 2024

Table : Intergenerational Rank Correlation (IRC) by Gender

| Category | Spearman's Rank Correlation | | | |
|--|-----------------------------|-------------------------------------|----------------------------------|---------------------|
| | All Surveyed Industries | Export-Oriented Garments Industries | Other Export Oriented Industries | Domestic Industries |
| Correlation with Father's Education | | | | |
| 1. Male Worker's Spearman's Rank Correlation with father | 0.269*** | 0.207*** | 0.364*** | 0.246*** |
| 1. Female Worker's Spearman's Rank Correlation with father | 0.256*** | 0.205*** | 0.243*** | 0.378*** |
| Correlation with Mother's Education | | | | |
| 1. Male Worker's Spearman's Rank Correlation with mother | 0.259*** | 0.241*** | 0.336*** | 0.207*** |
| 1. Female Worker's Spearman's Rank Correlation with mother | 0.276*** | 0.286*** | 0.198*** | .295*** |

Source: BIDS Survey of Manufacturing Workers, 2024

Table: Intergenerational regression coefficient (IGRC)

| Dependent Variable: | (1) | (2) |
|------------------------------------|-------------------------|-------------------------|
| Worker's Years of Education | | |
| Father's Years of Education | 0.137*** (0.020) | 0.139*** (0.020) |
| Father's Wage | 0.00004*** (0.00001) | 0.00004*** (0.00001) |
| Mother's Years of Education | 0.213*** (0.025) | 0.216*** (0.025) |
| Worker's Gender (1 = Male) | 1.475*** (0.120) | 1.347*** (0.119) |
| Industry FE | Yes | No |
| Enterprise Location FE | Yes | Yes |
| R-squared | 0.186 | 0.176 |
| N | 3,005 | 3,005 |

Father's Education:

Significant positive impact (0.137–0.139); each additional year of father's education correlates with ~0.137–0.139 more years for the worker.

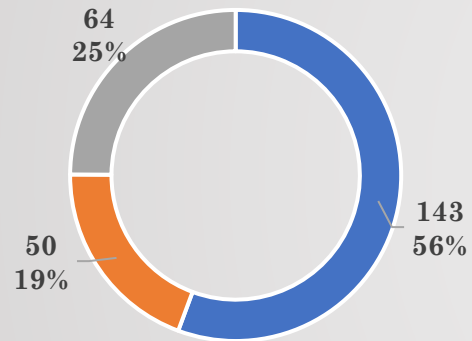
Father's Wage: Small but significant positive effect (0.00004), indicating a modest influence on worker's education.

Mother's Education: has a stronger impact (0.213–0.216) than father's, highlighting maternal influence on educational outcomes.

Source: BIDS Survey of Manufacturing Workers, 2024

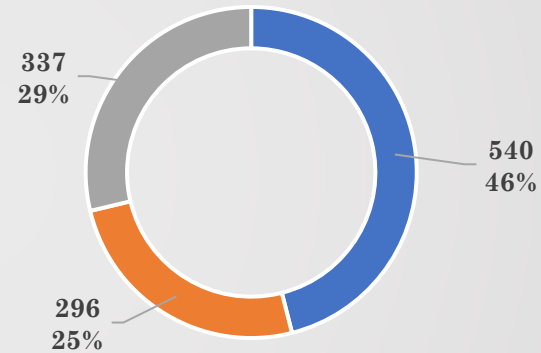
Health Indicators

Workers suffering from chronic illness



- Export-Oriented Garments Industries
- Other Export Oriented Industries
- Domestic Industries

Workers suffering from acute illness

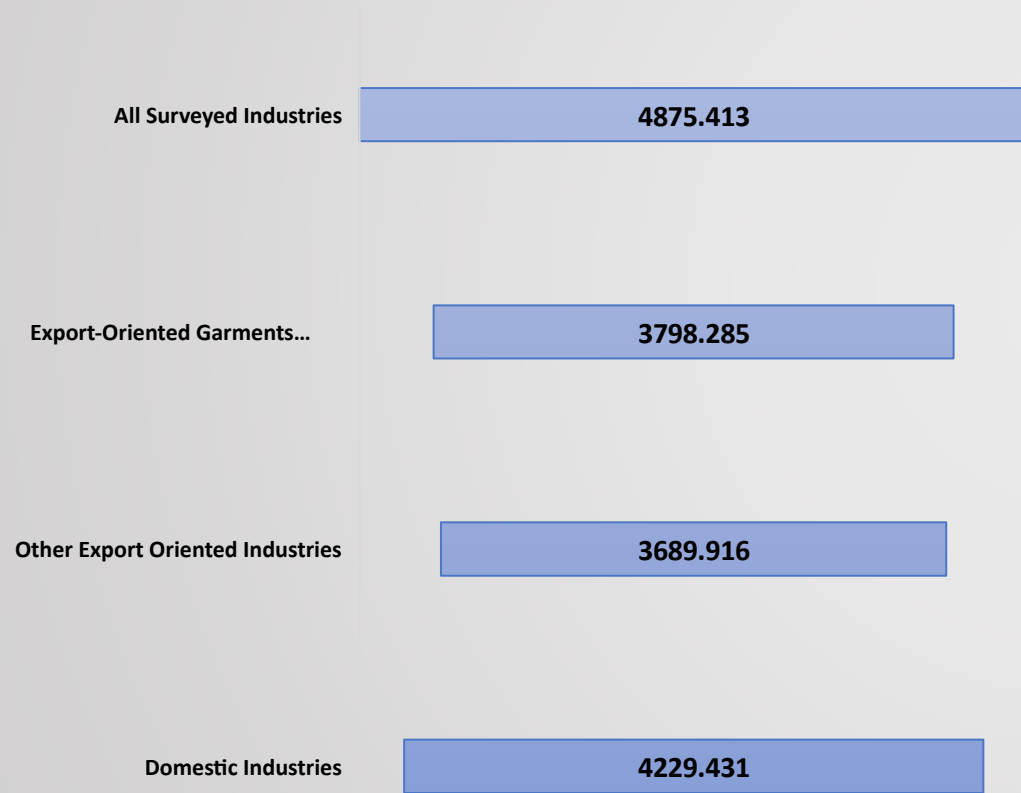


- Export-Oriented Garments Industries
- Other Export Oriented Industries
- Domestic Industries

- ✓ Out of 3005 workers 257 suffer from long term diseases /chronic illness
- ✓ Out of 3005 workers 1173 suffer from short term illness /acute illness

Treatment Cost

Cost of Medical Treatment (in BDT)



- For **Treatment of Chronic Illness 70.82 percent Workers prefer private facilities** : Private Clinic/Chamber, Private Hospital, MBBS Doctor (Private) , compared to only 23.35 percent seeking public hospitals 7 facilities.
- For **Treatment of Acute Illness workers go to Pharmacy Salesman (59.10%)**, followed by Unconventional Sources(20.45%) like kobiraj, homeo, ojha, village doctor etc. and private facilities (16.87%).
- **Workers form the Domestic Industry spend highest amount of medical expenditure annually 4229.431 BDT.**

Component 2: Collective Bargaining

Trade Union as an indicator of Collective Bargaining

- Trade unionism is a legislative system of organizing workers and raising voices for economic and social goods. Economic goods here refer to benefits that improve workers' financial well-being, while social goods refer to non-monetary benefits that enhance the social and working environment, such as safe working conditions, reasonable working hours, freedom from discrimination, and the right to be heard in workplace decisions.

Table: Worker level Unionization

| Variables | Observation (n) | Percent of Total (%) | Rate of Unionization (%) |
|--------------------|-----------------|----------------------|--------------------------|
| | 3005 | 100 | 11.35 |
| Type of Industries | | | |
| RMG Export | 1,292 | 43.00 | 11.92 |
| Non-RMG Export | 814 | 27.09 | 16.34 |
| Domestic | 899 | 29.92 | 6.01 |

Source: BIDS Survey of Manufacturing Workers, 2024

Table: Collective Bargaining (participate in the wage bargaining process and Trade Union at Factory Level) (Number and percentage of respondents)

| Variables | All Surveyed Industries | | Export-oriented Garments Industries | | Other Export-Oriented Industries | | Domestic Industries | |
|---|-------------------------|-------|-------------------------------------|-------|----------------------------------|-------|---------------------|-------|
| | n | % | n | % | n | % | n | % |
| Can participate in the wage bargaining process at the factory level (Number of respondents) | 894 | 29.75 | 382 | 29.57 | 286 | 35.14 | 226 | 25.14 |
| Trade Union at Factory Level (Number of respondents) | 444 | 14.78 | 213 | 16.49 | 162 | 19.90 | 69 | 7.68 |

Source: BIDS Survey of Manufacturing Workers, 2024

We define individual (worker) level trade unionization rate as a ratio of workers who responded that they can participate in the wage bargaining process through the factory level trade union to all respondent workers.

Gross monthly Wages differential between Trade Unionized and non-unionized workers (Mean monthly wage in taka)

(Gross wage includes basic salary and other benefits)

For the entire sample, **trade unionized workers earn an average of BDT 15,824.99, which is BDT 1,467.04 more than earned by non-unionized workers, a difference that is statistically significant.**

| | Trade Unionized | Not Trade Unionized | Differences in mean wages | T test |
|-------------------------------------|-----------------|---------------------|---------------------------|---------|
| All Surveyed Industries | 15824.991 | 14357.954 | 1467.038 | 5.95*** |
| Export-Oriented Garments Industries | 16257.21 | 15946.72 | 310.49 | 1.05 |
| Other Export-Oriented Industries | 16121.58 | 13201.2 | 2920.38 | 6.75*** |
| Domestic Industries | 13861.89 | 13154.3 | 707.59 | 1.15 |

Source: BIDS Survey of Manufacturing Workers, 2024

Non-wage Benefits of having trade union at factory level as an indicator of collective bargaining power as (% of respondents)

| | Factory Level Trade Union | |
|--|---------------------------|-------------------------------|
| | Have (% of respondents) | Don't have (% of respondents) |
| Earned leave allowance | 58.33 | 45.77 |
| Annual bonus | 29.95 | 24.19 |
| Eid Bonus / Festival Bonus | 98.20 | 92.56 |
| Additional Work Wages (Overtime) | 80.86 | 69.70 |
| Profit sharing | 3.15 | 3.16 |
| Attendance Bonus | 58.56 | 44.83 |
| Fixed Salary/Wage | 96.40 | 85.90 |
| Piece rate or production-based wages | 3.60 | 15.34 |
| Transportation facilities (lease car, company car, travel expenses) | 1.35 | 1.07 |
| Benefits such as food or food vouchers at subsidized prices, vouchers or discounted goods and services | 0.23 | 0.21 |
| Free lunch facility from factory | 13.74 | 7.44 |
| Free breakfast facility during overtime | 58.56 | 44.83 |
| Free medical facility | 75.90 | 61.50 |
| Facility to provide medicines at low cost | 64.64 | 39.15 |
| Providing sanitary napkins and painkillers to women workers during menstruation | 22.97 | 12.78 |
| Daycare center facility for keeping children | 18.02 | 11.88 |
| School facilities for children's education | 1.58 | 0.77 |
| Separate toilet for women | 96.62 | 91.54 |

Source: BIDS Survey of Manufacturing Workers, 2024

Benefit of being Unionized for workers in terms of Subjective poverty of their household

we measured subjective poverty using both consumption and income methods.

Workers provided their estimates of the minimum cost required for a family of four, which was then converted into per capita values.

If a worker's per capita consumption or income fell below this expected minimum cost, they were classified as poor.

Table: Subjective Poverty Distribution of household of Unionized and non-unionized workers

| | Unionized | | Non-Unionized | |
|------------------|---------------------------|---------|---------------|---------|
| | Freq. | Percent | Freq. | Percent |
| | <i>Consumption Method</i> | | | |
| Non- Poor | 257 | 75.37 | 1,791 | 67.23 |
| Poor | 84 | 24.63 | 873 | 32.77 |
| Total | 341 | 100 | 2,664 | 100 |
| | <i>Income Method</i> | | | |
| Non- Poor | 276 | 80.94 | 2,112 | 79.28 |
| Poor | 65 | 19.06 | 552 | 20.72 |
| Total | 341 | 100 | 2,664 | 100 |

Source: BIDS Survey of Manufacturing Workers, 2024

Does trade union at worker level unionization significantly raise wage earnings of manufacturing workers?

Being unionized is associated with a 3.46% increase in monthly earnings, which is significant.

Robust standard errors in parentheses

**** p<0.01, ** p<0.05, * p<0.1*

Note: Location (Upazilla) of the industry is controlled.

Source: BIDS Survey of Manufacturing Workers, 2024

Table: OLS regression to see the impact of unionization on total monthly earnings of workers

| VARIABLES | Log of Monthly Earnings |
|------------------------------------|----------------------------|
| Trade unionized | 0.0346** (0.0156) |
| Worker's Years Education | 0.00358** (0.00156) |
| Experience | 0.0208*** (0.00212) |
| Experience Square | -0.000250*** (7.79e-05) |
| Have Training from this factory | 0.0521** (0.0226) |
| Age | |
| Age20_34 | 0.226*** (0.0247) |
| Age35_49 | 0.232*** (0.0266) |
| Age50_68 | 0.211*** (0.0355) |
| Married | 0.0627*** (0.0107) |
| Male | 0.137*** (0.00995) |
| Size of Industry | |
| Large Industry | -0.0598 (0.0370) |
| Medium Industry | -0.114*** (0.0371) |
| Small Industry | -0.115*** (0.0366) |
| Have Health and Safety Certificate | 0.0501*** (0.00995) |
| Constant | 8.764*** (0.175) |
| Observations | 2,973 |
| R-squared | 0.432 |

Table: Probit regression to see the impact of the trade union at the factory level on Non-wage Benefits (Medicine at low cost):

| Medicine at low cost | Coefficients (Robust S.E) | Marginal Effects |
|------------------------------------|------------------------------|------------------|
| Trade union at factory level | 0.616*** (0.0829) | 0.177 |
| Type of Industry | | |
| Readymade Garments | 0.277*** (0.0955) | 0.080 |
| Others Export Oriented | 0.273*** (0.0876) | 0.079 |
| Size of Industry | | |
| Large Industry | 2.441*** (0.258) | 0.702 |
| Medium Industry | 2.295*** (0.257) | 0.661 |
| Small Industry | 1.260*** (0.260) | 0.363 |
| Have Health and Safety Certificate | 0.653*** (0.0590) | 0.188 |
| Constant | -2.304*** (0.825) | |
| Observations | 2,957 | |

Source: BIDS Survey of Manufacturing Workers, 2024

Does trade union at factory level unionization significantly raise Non-wage Benefits of manufacturing workers?

Having a trade union at the factory level significantly increases the likelihood of workers receiving low-cost medicine, one of the Non-wage Benefits, with a substantial marginal effect of 0.616

Robust standard errors in parentheses

**** $p < 0.01$, ** $p < 0.05$, * $p < 0.1$*

Marginal Effects: dy/dx for factor levels is the discrete change from the base level.

Note: Location (Upazilla) of the industry is controlled.

**Is Class Consciousness among
workers necessary for better wages
and better non-wage benefits?**

Defining Class Consciousness

- Class consciousness actually means the self-understanding of members of a class. This modern sociological concept evolved from the Marxian idea of class.
- “Class in itself” is a simple social group whose members share a similar relationship with the means of production.
- When ‘class consciousness’ and ‘class solidarity’ develop, then this group converted to “class for itself”
- Patel (1994) empirically examines Marxian postulates of class consciousness “(i) the prominent activists, who participate more actively in trade union activities, are likely to have a higher degree of class consciousness than the non-prominent, and (ii) that the activists affiliated with the radical federations are likely to be more class conscious than those affiliated with reformist federations” using “three dimensions of working class-consciousness: (a) class-solidarity (b) economic radicalism and (c) class-militancy,” and found both the postulates or assumptions of Marx were supported by data.

Class formation among manufacturing workers

Table: Methods Used to Negotiate Wages or Raise Salaries

| Sl . | | All Surveyed Industries | | Export-Oriented Garments Industries | | Other Export Oriented Industries | | Domestic Industries | |
|------|---|-------------------------|------|-------------------------------------|------|----------------------------------|------|---------------------|-------|
| | | n | % | n | % | n | % | n | % |
| a | Asking for a raise through personal relations | 759 | 25.3 | 233 | 18.1 | 220 | 27.1 | 306 | 34.04 |
| b | Through agitation | 500 | 16.6 | 293 | 22.7 | 132 | 16.2 | 75 | 8.34 |
| c | By raising demands with various trade unions | 335 | 11.2 | 150 | 11.6 | 63 | 7.74 | 122 | 13.57 |
| d | By raising demands with the wage board | 93 | 3.09 | 41 | 3.17 | 39 | 4.79 | 13 | 1.45 |
| e | Not demanding a rise in wages | 1305 | 43.4 | 568 | 44 | 357 | 43.9 | 380 | 42.27 |
| f | Other | 13 | 0.43 | 7 | 0.54 | 3 | 0.37 | 3 | 0.33 |
| | Total | 3005 | 100 | 1292 | 100 | 814 | 100 | 899 | 100 |

Source: BIDS Manufacturing Workers Survey, 2024.

- Workers first become conscious of sharing common grievances against capitalists (thus forming a class “in itself”) and eventually develop an awareness of themselves as forming a social class opposed to the capitalist, which becomes a class “for itself” (Marx). Simplifying this definition we have calculated variable (a+e+f) in Table 1 as less class conscious or “class in itself” and variable (b+c+d) in Table 1 as proper conscious to form a “class for itself”.
- 69.12% of workers can be identified as a “class in itself,” and the rest, 30.88%, belong to the “class for itself.”
- In the export-oriented garments sector, 62.53% of surveyed workers belong to “class in itself,” and the remaining 37.47% belong to the “class for itself” in terms of their consciousness.
- In the other export-oriented industries in Bangladesh, 71.26% of surveyed workers belong to a “class in itself,” and 28.74% belong to the “class for itself.”
- This scenario is even worse in domestic industries, where 76.6% belong to the “class in itself,” and only 23.36% belong to the “class for itself.”

Class consciousness based on the existence of trade unions, the size of industry, and safety certificate

| Variables/Attributes | Class for itself (%) | Class in itself (%) |
|--|----------------------|---------------------|
| Trade Union | | |
| Trade union | 33.18 | 8.18 |
| No trade Union | 66.82 | 91.82 |
| Size of the Industry | | |
| Large Industry | 60.61 | 48.53 |
| Medium Industry | 21.32 | 23.17 |
| Small & Microenterprise | 17.64 | 20.97 |
| Microenterprise | 0.43 | 7.33 |
| Safety Certificate | | |
| Directorate of Inspection of Factories and Establishments (DIFE) | 82.15 | 87.05 |
| Accord & Alliance | 9.97 | 12.75 |
| National Initiatives/BUET | 7.61 | 0.20 |

Source: BIDS Manufacturing Workers Survey, 2024.

Regression results for factors that are associated with the class consciousness: Estimation of the Probit model

| VARIABLES | Class for Itself |
|--------------------------------------|------------------------|
| Non RMG Export | -0.1121*** (0.0211) |
| Domestic Industry | -0.0593*** (0.0218) |
| Female | -0.0197 (0.0179) |
| Age | -0.0017 (0.0011) |
| Primary | 0.0051 (0.0309) |
| Secondary | 0.0089 (0.0312) |
| Higher Secondary | -0.0396 (0.0385) |
| Tertiary | 0.1407* (0.0823) |
| Diploma & Technical | 0.1474 (0.1223) |
| Trade Union | 0.3793*** (0.0268) |
| Years of working in the factory | 0.0066*** (0.0019) |
| Peri-urban area | -0.0809*** (0.0209) |
| A residential area | 0.0282 (0.0260) |
| Densely populated slum area | 0.3977*** (0.0286) |
| Labor-intensive area outside of city | 0.0622 (0.0688) |
| Chi Square | 503.37 |
| Observations | 2,651 |

- Holding other things constant, workers employed in the non-RMG export industry and domestic industry have 11.20 and 5.82 percentage points less probability of having class consciousness compared to workers employed in the RMG export industry
- **Workers employed in the RMG industry are more inclined to serve the collective interest rather than the individual interest.**
- **The gender of workers and age of the workers is not significantly associated with class consciousness.**
- **The education level of the workers is significantly associated with class consciousness.**
- If there is any trade union facility in the factory, the workers' class consciousness in this factory becomes 37.97 percentage points higher than less trade union facilities.
- If workers are involved in an additional year in the industry, the probability of workers' class consciousness increases by 0.66 percent points.
- Workers who reside in the peri-urban area have an 8.11 percentage points lower likelihood of being class-conscious than the industrial area (base category).

Source: BIDS Manufacturing Workers Survey, 2024.

Robust standard errors in parentheses *** p<0.01, ** p<0.05, * p<0.1

The result is obtained after controlling the upzila level fixed effect. In the survey, we collected samples from around 22 upzila in three districts. It controls the regional heterogeneity of workers and industries.

Regression result for whether the monthly wage is associated with class consciousness holding other variables constant: Estimation of Ordinary Least Square Estimation (OLS)

| VARIABLES | Monthly wage | Log Monthly wage |
|---------------------------------|----------------------------|--------------------|
| Class for itself | 346.06** (155.79) | 0.02* (0.01) |
| Non RMF Export | -3,632.63*** (191.28) | -0.28*** (0.01) |
| Domestic Industry | -3,516.80*** (185.49) | -0.27*** (0.01) |
| Female | -1,723.19*** (139.46) | -0.13*** (0.01) |
| Age | 73.47*** (9.49) | 0.01*** (0.00) |
| Primary | 1,251.43*** (234.70) | 0.09*** (0.02) |
| Secondary | 1,906.83*** (246.03) | 0.13*** (0.02) |
| Higher Secondary | 3,183.38*** (380.51) | 0.22*** (0.02) |
| Tertiary | 2,880.96*** (938.02) | 0.19*** (0.05) |
| Diploma & Technical | 1,046.36 (1,470.94) | 0.05 (0.09) |
| Trade Union | 204.80 (225.98) | 0.02 (0.01) |
| Years of working in the factory | 216.29*** (16.23) | 0.01*** (0.00) |
| Constant | 15,331.84*** (2,049.89) | 9.59*** (0.13) |
| Observations | 2,773 | 2,773 |
| R-squared | 0.34 | 0.36 |

- **Class consciousness significantly affects the wage of workers controlling other variables** such as education, type of manufacturing industry, gender, age of the workers, years of working in the factory, trade union existence in the industry, and residential fixed effect of the workers.
- The result of class for itself is statistically significant for both regressions after controlled variables.
- **The result indicates that compared to the individual interest (base category) if workers serve the collective interest, they have a 346.06 BDT (Bangladeshi Taka) higher wage or 2 percent higher wage.**

Source: BIDS Manufacturing Workers Survey, 2024.

Robust standard errors in parentheses *** p<0.01, ** p<0.05, * p<0.1

The result is obtained after controlling the upzilla level fixed effect. In the survey, we collected samples from around 22 upazila of Dhaka city. It controls the regional heterogeneity of workers and industries.

Discussions (Class Consciousness)

- Study results show that those who participate more actively in trade union activities, or trade union participation are likely to have a higher degree of class consciousness than the non-prominent. This result rebuilds the postulate of Patel 1994.
- Study results also suggest that the Marxian idea of class solidarity has a positive impact on collective bargaining, which finally results in wage increases for the workers.
- But, we are not sure from this survey that higher class consciousness or solidarity has any impact or positive effect on fellow workers' wellbeing.
- Those who are more class-conscious also help other workers to receive or achieve their rights could not be answered from this survey.

Component 3: Income, Expenditure & Poverty

Income

Table 1: Income of the manufacturing workers

| Categories | Whole Sample | | Export-Oriented Garments Industries | | Others Export Industries | | Domestic Industries | |
|---|--------------|----------|-------------------------------------|----------|--------------------------|----------|---------------------|----------|
| | n | Mean | n | Mean | n | Mean | n | Mean |
| Monthly wage income | 3,005 | 12474.68 | 1,292 | 13177.13 | 814 | 11891.57 | 899 | 11993.12 |
| Monthly wage income (including all bonuses) | 3,005 | 14524.54 | 1,292 | 15981.72 | 814 | 13678.36 | 899 | 13196.8 |
| Mean difference | | 2049.947 | | 2804.59 | | 1786.78 | | 1203.68 |
| Monthly other income | 2,304 | 12184.14 | 1,010 | 12533.72 | 574 | 11077.03 | 720 | 12553.21 |
| Monthly total income | 3005 | 23866.47 | 1,292 | 25792.65 | 814 | 21489.43 | 899 | 23250.54 |

- The average monthly wage of urban manufacturing workers is close to the minimum wage set by the Government of Bangladesh (GoB) in the RMG sector.
- The average difference between wages with bonuses and wages without bonuses is not much different. It implies opportunity to be involved with overtime is very low. Moreover, overtime and Hajira bonuses might be underpaid.
- **The Average income of RMG workers is higher than the non-RMG and domestic workers owing to high minimum wage, bonuses, and income from other family members.**

Expenditure

Table 2: Consumption expenditure of manufacturing workers

| Categories | Whole Sample | | Export-Oriented Garments Industries | | Others Export Industries | | Domestic Industries | |
|---|--------------|---------|-------------------------------------|---------|--------------------------|---------|---------------------|---------|
| | n | Mean | n | Mean | n | Mean | n | Mean |
| Monthly average per capita food consumption | 3,005 | 2910.35 | 1,292 | 3140.07 | 814 | 2702.87 | 899 | 2768.06 |
| Monthly average per capita non-food consumption | 3,005 | 5835.3 | 1,292 | 5921.3 | 814 | 6170.32 | 899 | 5408.35 |
| Monthly average per capita total consumption | 3,005 | 8745.65 | 1,292 | 9061.38 | 814 | 8873.19 | 899 | 8176.42 |
| Share of food consumption (%) | 3,005 | 38.52 | 1,292 | 38.66 | 814 | 37.36 | 899 | 39.35 |
| Share of non-food consumption (%) | 3005 | 61.48 | 1,292 | 61.34 | 814 | 62.64 | 899 | 60.65 |

- The average monthly per capita expenditure is 8745.65 TK; where food consumption is lower than non-food expenditure
- The average consumption expenditure of RMG workers is close to that of non-RMG workers. However, The distribution of non-RMG is more rightly skewed than that of RMG indicating consumption expenditure of non-RMG is more concentrated in the lower tail of the distribution.
- The average expenditure of workers in the domestic industry is less than the RMG and non-RMG workers.
- It might be poverty rate would be higher for non-RMG and domestic industries than RMG.

Incidence of Poverty

Table: Poverty rate of manufacturing workers

| | Upper Poverty line (%) | | | | Lower poverty line (%) | | | |
|--|------------------------|-------------------------------------|--------------------------|---------------------|------------------------|-------------------------------------|--------------------------|---------------------|
| | Whole Sample | Export-Oriented Garments Industries | Others Export Industries | Domestic Industries | Whole Sample | Export-Oriented Garments Industries | Others Export Industries | Domestic Industries |
| Poverty line of HIES 2022 | 27.45 | 17.65 | 35.87 | 33.93 | 7.85 | 3.64 | 12.65 | 9.57 |
| Own estimated line | 28 | 18.19 | 36.12 | 34.37 | 8 | 3.64 | 12.9 | 9.79 |
| Poverty line of HIES with 9.50 inflation | 34.41 | 24.07 | 42.51 | 41.94 | 12.38 | 5.11 | 19.78 | 16.13 |

Source: BIDS Survey of Manufacturing Workers, 2024

- The estimated upper and lower poverty rate of manufacturing workers in Dhaka is 34.41% and 12.38% respectively.
- The poverty rate is much higher than the national poverty rate (18.7%) and twice the poverty rate of urban Dhaka (14.3%), indicating poverty is much more intense among the manufacturing workers.
- The Poverty rate of RMG workers is significantly lower than the workers of non-RMG export and domestic industries.

Subjective Estimation of Poverty

Table: Estimated Subjective Poverty

| Categories | Whole Sample | | Export-Oriented Garments Industries | | Others Export Industries | | Domestic Industries | |
|---|--------------|----------|-------------------------------------|---------|--------------------------|---------|---------------------|----------|
| | n | Mean | n | Mean | n | Mean | n | Mean |
| Expected monthly salary | 2,989 | 22979.22 | 1,285 | 24077.9 | 812 | 22750 | 892 | 21605.16 |
| Expected per capita minimum cost | 2,991 | 5389.29 | 1,286 | 5579.31 | 810 | 5172.37 | 895 | 5312.57 |
| Percentage of workers whose per capita consumption less than the expected per capita minimum cost (%) | 957 | 31.85 | 336 | 26.01 | 288 | 35.38 | 333 | 37.04 |
| Percentage of workers whose per capita income less than the expected per capita minimum cost (%) | 617 | 20.53 | 197 | 15.25 | 209 | 25.68 | 211 | 23.47 |

- The minimum cost for a family of four in this market including all food and non-food expenses is expected to be 22979.22 TK monthly. This coincides the workers' long time demand to make minimum wage between 19900 to 23900.
- The per capita minimum cost (5389.29 BDT) reported by the workers coincidentally matches with the poverty line of HIES 2022 with a 9.50 inflation.
- 31.85% of workers spend money on their consumption which is less than the minimum cost required for the family.
- 20.53% of the workers earn less than the income than the expenditure for the family.

Table: Determinants of poverty for manufacturing workers

| VARIABLES | Upper poverty (own estimated line) | Upper poverty (HIES 2022 with 9.50 inflation) | lower poverty (own estimated line) | Lower poverty (HIES 2022 with 9.50 inflation) |
|---|---------------------------------------|--|---------------------------------------|--|
| Industry dummy (Base: RMG) | | | | |
| Non RMF Export | 0.1011*** (0.0209) | 0.0984*** (0.0209) | 0.0551*** (0.0126) | 0.0499*** (0.0127) |
| Domestic Industry | 0.0861*** (0.0207) | 0.0978*** (0.0202) | 0.0346*** (0.0129) | 0.0277** (0.0117) |
| Gender (female=1) | 0.0319** (0.0157) | 0.0282* (0.0155) | 0.0187* (0.0108) | 0.0064 (0.0100) |
| Marital status (currently single=1) | 0.0010 (0.0185) | 0.0021 (0.0189) | -0.0164 (0.0116) | -0.0013 (0.0113) |
| Age | -0.0004 (0.0010) | -0.0012 (0.0010) | -0.0010* (0.0006) | 0.0006 (0.0006) |
| Education dummy (Base: No education) | | | | |
| Primary | -0.0061 (0.0239) | -0.0133 (0.0247) | 0.0114 (0.0160) | 0.0090 (0.0136) |
| Secondary | -0.0330 (0.0242) | -0.0509** (0.0250) | -0.0046 (0.0160) | -0.0008 (0.0137) |
| Higher Secondary | -0.1344*** (0.0335) | -0.1547*** (0.0350) | -0.0478** (0.0189) | -0.0248 (0.0171) |
| Tertiary | -0.1180* (0.0623) | -0.1539** (0.0657) | -0.0327 (0.0420) | -0.0350 (0.0280) |
| Diploma & Technical | 0.1067 (0.1250) | 0.2831** (0.1385) | 0.1038 (0.0983) | 0.0163 (0.0535) |

| | | | | |
|--|------------------------|------------------------|------------------------|------------------------|
| Household Size | 0.1363*** (0.0057) | 0.1620*** (0.0043) | 0.0519*** (0.0037) | 0.0499*** (0.0032) |
| Years of working in the factory | -0.0022 (0.0014) | -0.0030** (0.0014) | -0.0024** (0.0010) | -0.0047*** (0.0010) |
| Overtime (yes=1) | -0.0276* (0.0158) | -0.0261 (0.0161) | -0.0020 (0.0105) | 0.0097 (0.0093) |
| Attendance bonus (yes=1) | -0.0187 (0.0175) | -0.0180 (0.0181) | -0.0092 (0.0110) | -0.0315*** (0.0099) |
| Whether workers have other sources of income (yes=1) | -0.1612*** (0.0151) | -0.1608*** (0.0152) | -0.0895*** (0.0109) | -0.1605*** (0.0101) |
| Social security (yes=1) | 0.0070 (0.0215) | 0.0188 (0.0224) | 0.0125 (0.0142) | -0.0149 (0.0154) |
| Accord & Alliance (yes=1) | -0.0520 (0.0456) | -0.1119** (0.0463) | -0.0639* (0.0384) | -0.0384 (0.0338) |
| Locational dummy (Base: Industrial area) | | | | |
| Peri-urban area | 0.0485*** (0.0187) | 0.0238 (0.0190) | 0.0303** (0.0127) | 0.0004 (0.0120) |
| A residential area | 0.0213 (0.0240) | 0.0250 (0.0227) | -0.0330** (0.0132) | 0.0065 (0.0153) |
| Densely populated slum area | 0.0556** (0.0224) | 0.0469** (0.0222) | 0.0904*** (0.0196) | -0.0119 (0.0139) |
| Labor-intensive area outside of city | -0.0878** (0.0356) | -0.1016*** (0.0389) | -0.0164 (0.0209) | -0.0174 (0.0241) |
| Regional fixed effect | Yes | Yes | Yes | Yes |
| Observations | 2,989 | 2,997 | 2,894 | 2,806 |

Discussion

- The poverty rate of RMG workers is significantly lower than the workers of non-RMG export and domestic industrial workers. This result can be explained with a number of reasons
 - Minimum wage set by the RMG is higher than non-RMG and domestic industry
 - Opportunity to be involved with overtime or income earning from other bonuses such as Hajira bonus is higher for RMG than the non-RMG and domestic industry
 - Most importantly, Income earned from other family members (particularly spouse) is higher for RMG workers (61.46%) than that of non-RMG (51.58%) and domestic workers (51.13%). Why involvement in income earning by other family members in RMG is higher than non-RMG and domestic industry, we need to explore it further?
- Overtime and having income sources other than wage income, education level above secondary, and work experience contribute to reducing poverty while household size influences in increasing poverty.

Component 4: Women's Empowerment in the Manufacturing Sector

Decision-making Indicators among Three Sectors

Decision-making empowerment considering Yes = 1, No & Decides Together with HH Head and others= 0

| Indicators | Whole Sample | | RMG Export | | Non-RMG Export | | Domestic | |
|-----------------------------|--------------|-------|------------|-------|----------------|-------|----------|-------|
| | N | (%) | N | (%) | N | (%) | N | (%) |
| Family Planning | 88 | 8.23 | 60 | 9.36 | 16 | 7.92 | 12 | 5.31 |
| Child's Education | 175 | 16.37 | 112 | 17.47 | 26 | 12.87 | 37 | 16.37 |
| Household Expenses | 477 | 44.62 | 280 | 43.68 | 76 | 37.62 | 121 | 53.54 |
| Treatment-related decisions | 350 | 32.74 | 202 | 31.51 | 60 | 29.70 | 88 | 38.94 |
| Asset Purchase or Sale | 229 | 21.42 | 138 | 21.53 | 36 | 17.82 | 55 | 24.34 |
| Mortgage | 153 | 14.31 | 91 | 14.20 | 23 | 11.39 | 39 | 17.26 |
| Saving | 316 | 29.56 | 180 | 28.08 | 51 | 25.25 | 85 | 37.61 |

Source: BIDS Survey of Manufacturing Workers, 2024

Decision-making empowerment considering Yes & Decides Together with HH = 1, No & Otherwise = 0

| Indicators | Whole Sample | | RMG Export | | Non-RMG Export | | Domestic | |
|-----------------------------|--------------|-------|------------|-------|----------------|-------|----------|-------|
| | N | (%) | N | (%) | N | (%) | N | (%) |
| Family Planning | 741 | 69.32 | 451 | 70.36 | 136 | 67.33 | 154 | 68.14 |
| Child's Education | 758 | 70.91 | 457 | 71.29 | 142 | 70.30 | 159 | 70.35 |
| Household Expenses | 936 | 87.56 | 567 | 88.46 | 162 | 80.20 | 207 | 91.59 |
| Treatment-related decisions | 916 | 85.69 | 548 | 85.49 | 164 | 81.19 | 204 | 90.27 |
| Asset Purchase or Sale | 854 | 79.89 | 512 | 79.88 | 150 | 74.26 | 192 | 84.96 |
| Mortgage | 603 | 56.41 | 367 | 57.25 | 101 | 50.00 | 135 | 59.73 |
| Saving | 855 | 79.98 | 503 | 78.47 | 155 | 76.73 | 197 | 87.17 |

Source: BIDS Survey of Manufacturing Workers, 2024

Comparison with Urban Informal Sector- Empowerment Indicators

- **Autonomy to Visit Freely:** Over 50% of women in formal sectors report visiting autonomy, while only **6.69%** in the informal sector have this autonomy.
- **Empowerment in Household Purchases & Healthcare Decisions:**
 - **Strong Empowerment (Independent Decision-Making):**
 - Household Purchases: 36.10% in the formal sector vs. 3.74% in informal.
 - Healthcare: 22.68% in the domestic sector vs. 8.32% in informal.
 - **Weak Empowerment (Including Shared Decisions):**
 - Household Purchases: 88.54% in the formal sector vs. 80.05% in informal.
 - Healthcare: 87.93% in the domestic sector vs. 81.13% in informal.
- **Women in the domestic sector exhibit the highest levels of empowerment across indicators among formal sectors.**

| Indicators | Informal Sector | | Whole Sample | | RMG Export | | Non-RMG Export | | Domestic | |
|---|-----------------|-------|--------------|-------|------------|-------|----------------|-------|----------|-------|
| | N | (%) | N | (%) | N | (%) | N | (%) | N | (%) |
| Owns a Mobile Phone | 5174 | 40.01 | 1027 | 97.90 | 618 | 97.17 | 196 | 98.99 | 213 | 99.07 |
| Autonomy to Visit | 796 | 6.69 | 487 | 59.39 | 295 | 59 | 107 | 66.88 | 85 | 53.13 |
| Decision-making empowerment considering Yes = 1, No & Decides Together with HH Head and others= 0 | | | | | | | | | | |
| Household Purchase | 453 | 3.74 | 296 | 36.10 | 174 | 34.80 | 45 | 28.13 | 77 | 48.13 |
| Healthcare | 1007 | 8.32 | 186 | 22.68 | 108 | 21.60 | 29 | 18.13 | 49 | 30.63 |
| Decision-making empowerment considering Yes & Decides Together with HH = 1, No & Otherwise = 0 | | | | | | | | | | |
| Household Purchase | 9687 | 80.05 | 726 | 88.54 | 449 | 89.80 | 124 | 77.50 | 153 | 95.63 |
| Healthcare | 9817 | 81.13 | 721 | 87.93 | 442 | 88.40 | 125 | 78.13 | 154 | 96.25 |

Source: BIDS Survey of Manufacturing Workers, 2024

Overview of Collective Bargaining Among Female Workers Across Different Sectors

- **Presence of Trade Union at Factory Level**

- All Surveyed Industries: 15.25 have trade unions at their factories
- Export-Oriented Garments: 20.12%.
- Other Export-Oriented Industries: 5.94% (mostly combined or industry-level unions)
- Domestic Industries: 9.73%.

- **Trade Union Participation of female workers**

- All Surveyed Industries: **11.13% involved in trade unions.**
- Export-Oriented Garments: **15.13%.**
- Other Export-Oriented Industries: **3.59% (lowest).**
- Domestic Industries: 6.44%.

| Presence of Trade Union at Factory Level | | | | | | | | |
|--|-------------------------|--------|-------------------------------------|-------|----------------------------------|-------|---------------------|-------|
| Response | All Surveyed Industries | | Export-Oriented Garments Industries | | Other Export-Oriented Industries | | Domestic Industries | |
| | n | % | n | % | n | % | n | % |
| Yes | 163 | 15.25 | 129 | 20.12 | 12 | 5.94 | 22 | 9.73 |
| No | 906 | 84.75 | 512 | 79.88 | 190 | 94.06 | 204 | 90.27 |
| Total | 1069 | 100.00 | 641 | 100 | 195 | 100 | 233 | 100 |
| Participation in Trade Union | | | | | | | | |
| Response | All Surveyed Industries | | Export-Oriented Garments Industries | | Other Export-Oriented Industries | | Domestic Industries | |
| | n | % | n | % | n | % | n | % |
| Yes | 199 | 11.13 | 97 | 15.13 | 7 | 3.59 | 15 | 6.44 |
| No | 950 | 88.87 | 544 | 84.87 | 188 | 95.71 | 218 | 93.56 |
| Total | 1069 | 100.00 | 641 | 100 | 195 | 100 | 233 | 100 |

Source: BIDS Survey of Manufacturing Workers, 2024

Empowerment by Unionization

- Higher Empowerment Among Members: **unionized female workers show significantly greater involvement in every indicator among all the three sectors.**
- Treatment-related decisions and Household expenses: Unionized workers have 97.48%–100% decision-making power in household expenses and 95.79%–100% in treatment-related decisions, compared to non-unionized workers with 79.49%–91% and 80.51%–89.57%, respectively
- Asset Management and Savings: In both asset management and savings, union members have significantly better outcomes compared to non-members, particularly in the Non-RMG sector, which emphasizes the role of unions in financial empowerment

| Indicators | Empowerment by Unionization | | | | | | | |
|-----------------------------|-----------------------------|------------|----------------|----------|--------------|------------|----------------|----------|
| | Trade Union Member | | | | Non-member | | | |
| | Whole Sample | RMG Export | Non-RMG Export | Domestic | Whole Sample | RMG Export | Non-RMG Export | Domestic |
| Family Planning | 79.83 | 79.38 | 85.71 | 80.00 | 68.00 | 68.75 | 66.67 | 67.30 |
| Child's Education | 79.83 | 81.44 | 85.71 | 66.67 | 69.78 | 69.49 | 69.74 | 70.62 |
| Household Expenses | 97.48 | 96.91 | 100.00 | 100.00 | 86.13 | 86.95 | 79.49 | 91.00 |
| Treatment-related decisions | 95.79 | 94.85 | 100.00 | 100.00 | 84.42 | 83.82 | 80.51 | 89.57 |
| Asset Purchase or Sale | 88.24 | 89.69 | 71.43 | 86.67 | 78.84 | 78.13 | 74.36 | 84.83 |
| Savings | 92.44 | 91.75 | 85.71 | 100.00 | 78.42 | 76.10 | 76.41 | 86.26 |

Source: BIDS Survey of Manufacturing Workers, 2024

Regression Result

- No significant difference between RMG and the domestic sector. Empowerment levels are higher in the domestic sector, likely due to an older, more experienced female workforce than younger workers in the RMG sector.
- Non-RMG Export Sector: No significant difference between RMG and the domestic sector. Coefficient: **-0.61** (Statistically significant at 5% level).
- The coefficient of the trade union is **0.54** (Statistically significant at 5% level). However, the existence of factory level union is insignificant
- The coefficient of overtime is **0.034** per additional hour of overtime.
- Age Groups: **Significant empowerment gains were observed among 36-45 and 47-61 age groups.**

| Independent Variable of the OLS regression | Decision-Making Empowerment Score (Trade Union Member) | Decision-Making Empowerment Score (Factory Level Union) |
|--|--|---|
| RMG | 0.257 | 0.271 |
| Non RMG Export | -0.607** | -0.623** |
| Age (26-35) | 0.262 | 0.242 |
| Age (36-45) | 0.823*** | 0.822*** |
| Age (47-61) | 1.726*** | 1.706*** |
| Husband's characteristics | | |
| Husband's income | 0** | 0** |
| Profession-Wage employment | 0.427** | 0.457** |
| Work-related Variables | | |
| Experience | 0.165* | 0.165** |
| Health and Safety certificate | 0.455** | 0.441** |
| Overtime | 0.0341** | 0.0344** |
| Trade Union Membership | 0.540** | |
| Factory Level Union | | 0.269 |
| Constant | 3.499*** | 3.430*** |

Source: BIDS Survey of Manufacturing Workers, 2024

Note: Other related variables are controlled here

Conclusion

- A significant intergenerational effect on the worker's education is observed with both parental education and wages.
- Although there is a tendency for workers' real wages to remain flat, collective bargaining has a significant impact on raising wages, improving other benefits, and enhancing working conditions.
- Trade unionization among workers significantly enhances women's family decision-making power through stronger collective bargaining and advocacy, whereas factory-level unions lack sufficient influence on empowerment.
- Poverty rate among RMG workers is significantly lower than that of workers in non-RMG export and domestic industries due to the higher and stricter compliance, including adherence to minimum wage laws and the establishment of higher minimum wages in export-oriented RMG industries compared to export-oriented non-RMG and domestic industries.

Thanks for your patience in hearing