

# README: Replication Files for "Women's Labor Force Participation in Nepal: An Exploration of The Role of Social Norms"

## Overview

This reproducibility package contains the necessary files for replicating the analysis in "Alaref, Jumana Jamal Subhi; Patil, Aishwarya Shivaji; Rahman, Tasmia; Munoz Boudet, Ana Maria. Women's Labor Force Participation in Nepal: An Exploration of The Role of Social Norms (English). Policy Research working paper WPS 10810; Washington, D.C.: World Bank Group."

Memory and Runtime Requirements: The Stata analysis code requires approximately 4 minutes to execute completely. The code was last run on a 64-bit operating system, x64-based processor, 11th Gen Intel(R) Core(TM) i5-1145G7 @ 2.60GHz 1.50 GHz, 16.0 GB RAM.

Software Requirements: Stata (Tested on version 18)

Required Stata packages:

- ietoolkit
- outreg2
- schemepack
- winsor2
- tabout

All dependency files are included in the folder "dofiles/ado" and are loaded automatically by the main do-file.

## Instructions for Replicators

1. **Set Repository Path:** Open the main dofile (MasterDofile\_SN-FLFP\_NPL.do). Modify line 43 to reflect the path of the repository on your computer.
2. **Execute Analysis:** The master dofile is preconfigured for immediate execution. For a full data cleaning and analysis, set the flags (DataCleaning, DataConstruction, DataAnalysis) to 1. After adjusting these flags, run the master dofile. For running individual sections, simply set the respective flags for those specific sections.
3. **Generate Outputs:** Running the master dofile will construct the datasets for analysis and generate all tables and figures (or tables with data for figures) from the working paper. The default code run does not include the generation of tables A1 and A2 of the Annex, which require access to the dataset "Nepal Labor Force Survey 2017-18". Users with access to this data can activate this part of the code by replacing the local in line 40 of "03\_MasterDataAnalysis.do" from 0 to 1.

4. **Output Location:** Outputs included in the working paper’s main body will be stored in `\output\main\figures` and `\output\main\tables`. Outputs in the annex to the working paper will be stored in `\output\annex\figures_annex` and `\output\annex\tables_annex`.

## Datasets Availability and Description

### Statement about Rights

- I certify that the authors of the manuscript have legitimate access to and permission to use the data used in this manuscript.

A fully documented dataset for the main data used for this paper is made available in the World Bank Microdata library: <https://microdata.worldbank.org/index.php/catalog/6254>.

### Details on each Data Source

Data.Name	Data.Files	Location	Provided	Citation
“Social Norms FLFP Nepal Data 2023”	women_roster_main.dta men_women_roster_main.dta	\$data	TRUE	World Bank (2024)
“Nepal Labor Force Survey 2017-18”	Not available	Not applicable	FALSE	CBS (2018)

**Principal Dataset:** The "Social Norms FLFP Nepal Data 2023" is a dataset at the individual level and household level, consisting of 2,000 individuals from 1,150 households. This data has been collected by the authors with support of a data collection firm in Nepal using a quantitative survey administered between May 29 and June 24, 2023 with the support of a data collection firm in Nepal. See LICENSE.txt for details on redistribution.

A cleaned and anonymized dataset is available in the World Bank Microdata Library: <https://microdata.worldbank.org/index.php/catalog/6254>. These data are the same as the ones in the folder "data/final". For replication purposes, the original raw datasets - one at the individual-level and one at the household-level - from the fieldwork are located at `$data\raw`. These are in Stata format (.dta). These datasets form the starting point for all analyses.

Following the execution of the data cleaning and construction dofiles, several derived datasets are generated for use in various analyses throughout the paper:

1. `$data/final/NPL_SN_REGRESS.dta`: This is the primary dataset for individual-level analysis.
2. `$data/final/NPL_SN_FLFP_HH.dta`: This is the primary dataset for household-level analysis.

3. `$data/intermediate/NPL_SN_FLFP.dta`: The cleaned raw dataset at the individual-level is first saved as this dataset, containing only individual-level variables.
4. `$data/intermediate/NPL_SN_FLFP_FEMALE.dta`: The cleaned raw dataset at the individual-level with observations only for female respondents is saved as this dataset. It is used for merging with household-level variables.
5. `$data/intermediate/work_marriedfem.dta`: This is an intermediate dataset created with the sole purpose of generating variables for couples.

**Secondary Dataset:** The "Nepal Labor Force Survey 2017-18" data is used to inform background information in the working paper, such as country context. This data has also been used to produce two tables in the annex to the working paper (Table A.1. and Table A.2). This data is subject to redistribution restrictions. Data could previously be freely downloaded from <https://nsonepal.gov.np/en> by selecting the option "Microdata Catalog (NADA)" from the "Statistics Portal" drop-down, choosing 'Get Microdata', and registering with the National Statistics Office, Government of Nepal. However, as of June 2024, the NADA catalog of the portal is not available anymore. The survey ID number is: NPL-CBS-NLFS-2018-v01.

## Description of dofile Structure and Execution Order

**Main Dofile (MasterDofile\_SN-FLFP\_NPL.do):** This is the primary script for orchestrating all other dofiles. Run this first for complete replication by following steps documented in the instructions for replicators section above.

**Part 1. Clean (01\_DataCleaning.do):** This dofile uses the primary raw .dta file, embarking on a series of essential tasks aimed at readying the data for variable construction. These tasks cover a comprehensive scope, including adding value and variable labels, generating new variables, transforming string variables into numeric formats and vice-versa, and merging individual and household-level raw datasets. The dofile is structured into three key sections: in-depth cleaning of individual-level data, in-depth cleaning of household-level data, and merging individual and household-level datasets. This organization ensures a systematic and efficient approach to prepare for data preparation.

**Part 2. Prepare (02\_DataConstruction.do):** This dofile constructs necessary variables for analysis. It is structured into three key sections: generating outcome variables, generating control variables, and generating social norms indices.

**Part 3. Analyze (03\_MasterDataAnalysis.do):** This master dofile for analysis performs main and annex analyses, including descriptive statistics, regression tables, and figures. It runs two sub-do.files, one each for tables and figures included in the main body of the paper, and in the annex to the paper. Each sub-do.file is structured into two key sections: producing tables and producing figures, all in the same sequence as they appear in the working paper. Note that the dofile titled `misc_annex.do` is not executed by default by

this master dofile because it uses the secondary data that is not made available as part of this package. The `misc_annex.do` is used to produce Table A.1 and A.2 in the annex, and the code is included for the purpose of completeness and transparency only.

### License for Code

The code is licensed under a BSD-3-Clause license. See `LICENSE.txt` for details.

### Note on tables and codes

All code can be executed from the `MasterDofile` script, providing a centralized approach for running the full analysis. Additionally, codes for individual `.dofiles` are designed to be executed independently, with the condition that folder globals and custom programs are correctly set up in both the master `.dofile` and the respective section `.dofiles`. This flexibility ensures the accurate reproduction of all numerical data presented in the paper. For ease of reference, a table is included below specifying the table/figure number as in the working paper, the `.do` file used to generate it and the location of code within, and the output's file name in the output folder.

Note: The following tables/figures are not included in the table below, and have been indicated so in the respective `.do` files:

- Text-only (non-numeric): Figure 1, Table 1, Table 10, Annex A.3., Figure B.1.
- Not constructed using raw data collected for this survey (using Nepal Labor Force Survey data): Table A.1, Table A.2.

Table/ Figure	.dofile	Line Number	Output file
Table 2	<code>03a_mainbody.do</code>	56	<code>table2.xls</code>
Table 3	<code>03a_mainbody.do</code>	241	<code>table3.xls</code>
Table 4	<code>03a_mainbody.do</code>	261	<code>table4.xls</code>
Table 5	<code>03a_mainbody.do</code>	281	<code>table5.xls</code>
Table 6	<code>03a_mainbody.do</code>	321	<code>table6.xls</code>
Table 7	<code>03a_mainbody.do</code>	351	<code>table7.xls</code>
Table 8	<code>03a_mainbody.do</code>	358	<code>table8.xls</code>
Table 9	<code>03a_mainbody.do</code>	373	<code>table9.xls</code>
Figure 2	<code>03a_mainbody.do</code>	413	<code>figure2.xls</code> . The figure was generated with a line plot in Excel

Table/ Figure	.dofile	Line Number	Output file
Figure 3	03a_mainbody.do	417	figure3.xls The figure was generated with a line plot in Excel
Figure 4	03a_mainbody.do	517	figure4.xls The figure was generated with a line plot in Excel
Figure 5	03a_mainbody.do	592	figure5.xls The figure was generated with a bar plot in Excel
Table A.1	misc_annex.do	161	Displayed in console
Table A.2	misc_annex.do	164	Displayed in console
Table A.4	03b_annex.do	64	tableA.4.xls
Table A.5	03b_annex.do	272	tableA.5.xls
Table A.6	03b_annex.do	424	tableA.6.xls
Table A.7	03b_annex.do	571	from tableA.7_1 to tableA.7_6.xls
Table A.8	03b_annex.do	757	tableA.8.xls
Table A.9	03b_annex.do	798	tableA.9.xls
Table A.10	03b_annex.do	830	tableA.10.xls
Table A.11	03b_annex.do	855	tableA.11.xls
Table A.12	03b_annex.do	889	tableA.12.xls
Table A.13	03b_annex.do	954	tableA.13.1.xls tableA.13.2.xls
Table A.14	03b_annex.do	989	tableA.14.xls
Table A.15	03b_annex.do	1002	tableA.15.xls
Table A.16	03b_annex.do	1015	tableA.16.xls
Table A.17	03b_annex.do	1061	tableA.17.xls
Table A.18	03b_annex.do	1096	tableA.18.1.xls tableA.18.2.xls tableA.18.3.xls
Figure B.2	03b_annex.do	1120	figureb.2a.png figureb.2b.png figureb.2c.png figureb.2d.png figureb.2e.png

Table/ Figure	.dofile	Line Number	Output file
Figure B.3	03b_annex.do	1171	figureb.3(a)1.xls figureb.3(a)2.xls figureb.3(a)3.xls figureb.3(b)1.xls figureb.3(b)2.xls The figures were generated with line plots in Excel

## References

Jumana Alaref, Aishwarya Patil, Tasmia Rahman, Ana Maria Munoz Boudet, Jasmine Rajbhandary. "Women's Labor Force Participation in Nepal: An Exploration of The Role of Social Norms" World Bank Working Paper Series (2024).

Central Bureau of Statistics (CBS), Nepal Labour Force Survey 2017-2018.

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