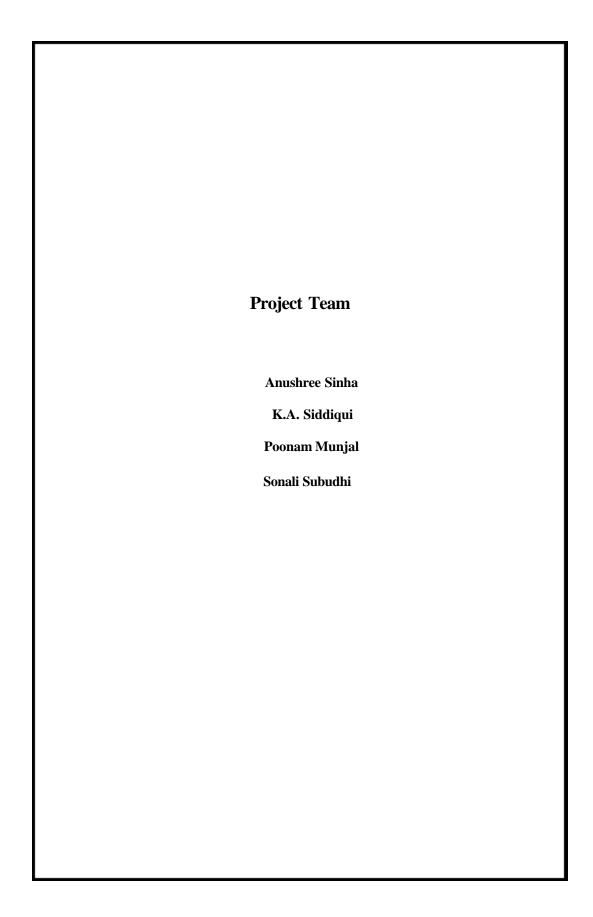
# IMPACT OF GLOBALISATION ON INDIAN WOMEN WORKERS: A STUDY WITH CGE ANALYSIS

Under: Macroeconomic and Adjustment Policies (MAP) - Gender Network Phase - II

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September 2003



# **CONTENTS**

ABSTR	RACT	7
I. In	ntroduction	8
II. A	Social Accounting matrix with gender dimension	9
<i>II.1</i> .	Input-Output Sectoral Reclassification	10
II.2.	The women workers	11
II.3.	Earnings by gender	14
III.	Household Characteristics	16
<i>III.1</i> .	l. Consumption Expenditure	
IV.	The Base Data	20
v. Ti	The CGE Model	20
VI.	Simulations	21
VI.1.	. Impact on Factor Remuneration:	22
VI.2.	2. Impact of Trade Liberalisation on Production and Trade	24
VI.3.	Consumption and Wage Differentials	26
VII.	Concluding Remarks	28
Referei	ences	30
APPEN	NDIX A: CGE Model	32
A.1.	Sectors	32
A.2.	Household Type	32
A.3.	Labour Categories	33
A.4.	Capital Categories	33
A.5.	Prices Block	33
A.6.	Output And Factors Of Production Block	33
A.7.	Demand Block	34
A.8.	Market Clearing	35
APPEN	NDIX B: Glossary	36
B.1.	Prices Block	36
B.2.	Production Block	36

B.3.	Factors Block	36
B.4.	Demand Block	36
B.5.	Parameters Block	37
APPENI	DIX C: Aggregation Scheme For 11 Industrial Sectors with I-O Table	38
APPENI	DIX D Aggregation Scheme For 11 Industrial Sectors with NIC Codes	38
APPENI	DIX E: Average Per Day Wage Rate For Labourers By Gender	39
APPENI	DIX F: Types Of Households By Formal And Informal Categories	39
APPENI	DIX G: Classification Of Households By NIC Codes	40
APPENI	DIX H: Consumption Items Mapped With Sectors	59
APPENI	DIX I: SOCIAL ACCOUNTING MATRIX	68

# **TABLES**

Table II.1 Percentage Share Of Workers By Sectors	11
Table II.2 Percentage Distribution Of Factor Owners By Sectors For Females	13
Table II.3 Percentage Distribution Of Factor Owners By Sectors For Males	13
Table II.4 Percentage Distribution Of Factor Owners By Sectors For All Workers	14
Table II.5 Percentage Distribution Factor Owners By Industry Sectors	15
Table II.6 Percentage Distribution Factor Earnings By Industry Sectors	15
Table III.1 Types Of Households By Formal And Informal Categories	17
Table III.2 Distribution Of Female Member Activity Within Formal Informal	
Households (Percent)	18
Table III.3 Distribution Of Male Member Activity Within Formal Informal	
Households (Percent)	18
Table III.4 Distribution Of Member Activity Within All Households (Percent)	18
Table III.5 Pattern Of Households' Consumption Expenditure (Percent)	19
Table VI.1 Sector Wise Factor Intensity Distinguished By Gender	22
Table VI.2: Percentage Change In Tariff Rates And Relative Prices In Simulation 1	23
Table VI.3 Percentage Change In Real Average Wage Rate By Skill	23
Table VI.4 Percentage Change In Price Of Imported Goods, CPI And Welfare Measure	24
Table VI.5 Percentage Change In Price Of Domes tic Output	24
Table VI.6 Percentage Change In Relative Price Of Domestic Output	25
Table VI.7 Percentage Change In Imports By Sector	25
Table VI.8 Percentage Change In Exports By Sector	25
Table VI.9 Percentage Change In Consumption By Sector	26
Table VI.10 Percentage Change In Domestic Output By Sector	26
Table VI.11 Percentage Change In Total Private Consumption By Household Types	27
Table VI.12 Percentage Change In Wage Differentials By Skill And Gender	27

# Acknowledgement

This paper has been built upon the report developed on the earlier phase of this project. We are thankful to all the comments to the earlier versions of this work as those comments have helped in shaping this report. We acknowledge with thanks the support received from Randy Spence in carrying out this work. We are grateful to John Cockburn for his continued assistance in our work. We thankfully acknowledge Christopher Adam for his comments and support in fine-tuning the CGE model developed in this work. We are thankful to our colleagues Ratna Sudershan, Navasharan Singh and Shashanka Bhide for many clarifications while working on this project. We are grateful to J.M.Chawla, Neeti Mitra and Praveen Sachdeva for helping us in processing the NSSO data. Last but not the least, we acknowledge with thanks the support of ISST in proving the grant to carry out this research work.

#### **ABSTRACT**

This study attempts to examine the impact of policy changes on the welfare of women in India. First the macro analysis is developed to focus on the various economic agents in the economy having a gender distinction within a Social Accounting Matrix (SAM) framework. As a large section of women workers are involved in informal activities, we have differentiated factor of production by informality. The study distinguishes households deriving income from formal and the informal activities. SAM incorporating informal sectors and informal households enables a study of the work participation of women in different sectors of the economy. Also non-labour force work of women is scrutinised so as to know the structure of the various types of households and the women's contribution in such households. The flow of value added from different sectors to the various factors of production and the flow of factor income to different households on the basis of factor ownership differentiated by gender is incorporated in such a SAM. The SAM is used as a base for building a Computable General Equilibrium (CGE) model. The CGE model incorporate factors of production distinguished by gender and informality.

## I. Introduction

Major macroeconomic changes in a developing country like India impact upon income distribution and the social sector (Stewart, 1995). The implications of SAP for poverty are also linked to its impact on the different types of work and workers. This is so because much of the work undertaken in a developing country is too poorly paid to meet basic human needs or remains excluded from the welfare or solidarity network (Hugon, 1990). Such work generally falls under the domain of informal types of work. Small-scale enterprises, vending and other petty trade are mostly carried out by low paid workers in a developing country. Many of such workers are women. They form a major part of home based workers and also unpaid family workers supporting in home based enterprises. Women also form a major share of agricultural workers who are either paid very modestly or not paid at all.

Changes in policies have a significant differential impact on women and men workers within such a socio-economic framework. It therefore becomes important to be able to examine such differential impact by using a methodology incorporating gender in a macro framework. As many developing countries adopted SAP during the 1990s, there was more emphasis on the integration of gender as a category of analysis in economics during this period. Gender issues were now being considered at a micro, intra household level and also integrated into macro analysis (Beneria, 1995; Bakker, 1994). Progress in methodology has been on two fronts. The first important area is the availability of statistical data to capture women's labour force participation with geater accuracy than in the past. Moreover, with improved statistical tools and computer technology its become possible to analyse more data making it more rewarding to collect more gender sensitive data.

The situation of women is very difficult in a country like India. It is generally not accepted for women to participate in the labour force. In 1991 less than 22 percent of women in all ages were engaged in any market related work. Since it is culturally not acceptable for Indian women to access to jobs in stores, factories and public sector, the work in informal sector is particularly important to Indian women. It is therefore important to examine how trade reforms and other policy changes affect such sectors. Also it is important to examine how women workers in informal sector, who are more than 90 percent of all women workers are affected by policy changes.

There have been major changes in Indian policies leading to reduction in the scope of industrial licensing since 1991 and opening up of the economy. The major thrust of the liberalisation process have been wide ranging trade reforms, bringing about restructuring and a reduction in custom duties together with a gradual elimination of quantitative restrictions on trade. In the pre-reform regime India nurtured very high import duties that were among the highest in the world. The tariff duty rates were above 200 percent for many items in the pre-reform period. Since 1991 these rates are being reduced and the maximum tariff rate was brought down from & percent in 1994-95 to 45 percent in 1997-98, 40 percent in 1999-2000 and to 35 percent in 2000-2001. At present there a total of 4 custom duty rates, i.e. 35 percent, 25 percent, 15 percent and 5 percent. Moreover, along with liberal import policies, export promotion schemes are given further boost through setting up of special export zones.

To understand the impact of major policy changes on women, it is essential to have a comprehensive macro framework. In this study we build a standard computable general equilibrium (CGE) model for analysing the impact of macro policy changes on women. Here, gender is analysed within the formal and informal sectors of the economy because a large section of women in India are involved in informal activities as noted earlier. There is evidence that liberalisation has affected growth favourably in India during the 90s (Srinivasan, 1998). However, impact of such policies on different socio-economic groups requires an assessment. The purpose of this exercise is to study the impact of trade reforms on income distribution distinguished by informality and gender.

Although gender-related development issues have prompted serious debate, the absence of appropriate gender-aware macroeconomic analytical tools has penalized quantitative analyses. More generally, it must be recognized that there are few instruments, which can relate macroeconomic policy and microeconomic behaviour. In this context, Computable General Equilibrium Model (CGEM) is one such a tool than can address these concerns. Such models have been applied to a range of policy questions in a number of economic fields over the last ten or so years. They include public finance and taxation issues, international trade policy questions, and evaluations of alternative development strategies and the implications of macroeconomic policies.

Trade policies have different consequences on women and men because women and men differ in their economic and social status. Women and men respond differently to economic and trade policies because they have different sets of private resources and levels of access to public ones. Meanwhile, the social and human development impact of trade policy must look at how choice sets have been altered and how alterations 4have affected women and men. Both kinds of impact analysis, in turn, help determine the changes in the welfare of both genders. What determines status and control over resources? And what determines women and men's choice sets? Households operate in an environment structured by economic incentives and institutional constructs.

Institutions, both formal and informal, that determines each person's available set of behavioural choices with some choice sets larger than others, govern the behaviour of household members. International trade policy influences both macro- economic and meso-economic variables, clearly. Gender issues in international trade, however, require an investigation of the transmission mechanisms from policy formulation to implementation and from macro-economic and meso-economic indicators to micro-economic and social development indicators.

The paper is organised as follows. Section II describes the Social Accounting Matrix (SAM) database, which incorporates the flow of formal and informal labour, distinguished by gender. Section III describes the concept of households distinguished into different categories and examines the structure of these households in the light of activities differentiated by gender. In Section IV we briefly describe the model and then present the results from our simulation exercise in Section V. Section VI concludes the paper with a discussion of future directions and extensions.

## II. A Social Accounting matrix with gender dimension

In this section we describe the social accounting matrix (SAM) developed with gender distinction. As large section of women workers is involved in informal activities, we have kept the formal and informal distinction. The contribution of informal sector in the total value added generated in the economy is about 54.25 per cent. The share of value added generated by women workers in the total value added is 15.72 per cent. The women workers form 26.69 per cent of total employment. Out of this more than 90 percent are involved in informal activities. The SAM is developed with sectors that have important shares of women workers mostly in the informal part of the sectors. Workers are distinguished in this study as casual, regular, own account workers, employers and home based workers. This is the first time that the information on homebased work has been collected by the National Sample Survey Organisation of India and we have used the data for formulating this SAM. The SAM developed with such distinctions are used as the base for building a Computable General Equilibrium (CGE) Model. The CGE model is then used for simulation of policy change effect on women workers.

In the present study, the major concern is of understanding the impact of policy changes on the informal sector and on workers distinguished by sex. For this purpose we need to trace the interrelationship of the informal sector with other sectors of the economy. Once we distinguish the production sectors we map the workers distinguished by sex participating in these sectors. These

workers are then mapped into different types of households. Such mappings are done using the data from the NSSO's 55<sup>th</sup> Round Survey data.

In the production side, we have used the information from the Central Statistical Organisation (CSO) to break up each sector into formal and informal parts. The formal sector or the registered sector is defined by the CSO as establishments that employ 10 or more workers and use power or employ 20 or more workers without using power and are registered in accordance with the Factories Act, 1951. These establishments come under the coverage of Annual Survey of Industries (ASI). The rest of the manufacturing establishments are treated as unregistered or informal sector. The information of the organised and unorganised sectors are used from the ASI and the Enterprise Follow up Surveys to break up the 115 sectors of the CSO's input/output table for the year 1993-94. These sectors are aggregated to 11 sectors on the basis of their usefulness in providing information about the informal part of the economy and gender shares. The National Accounts Statistics (NAS) also provides the information about value added generated from manufacturing sectors and the Net Domestic Product (NDP) for agriculture and other sectors of the economy and further, their break up into registered and unregistered part. In this study while describing the informal, the home-base workers are included as well as noted earlier. As information regarding household members is available, it is possible to compute workers composition in a household. On the basis of such information, we have devised to get different types of households.

#### II.1. Input-Output Sectoral Reclassification

The 115-sector input/output table provided by the CSO for the year 1993-94, has been aggregated to 11 sectors with their formal informal dimensions. The formal informal identification of the sectors is done by scrutinising the nature of work involved in them. While deciding on the sectors, it is to be kept in mind that the sectors are quite heterogeneous with respect to each other. The sectors are as follows:

- 1. Agriculture (Informal)
- 2. Agro-processing (Formal)
- 3. Agro-processing (Informal)
- 4. Readymade Garments (Formal)
- 5. Readymade Garments (Informal)
- 6. Other Manufacturing Goods (Formal)
- 7. Other Manufacturing Goods (Informal)
- 8. Construction (Informal)
- 9. Other Services (Formal)
- 10. Other Services (Informal)
- 11. Government Services (Formal)

These sectors are also chosen keeping in consideration the women participation in them. The gender aspect of the study demands looking at the women employment numbers in these sectors. We use the 55<sup>th</sup> Round of NSSO Survey data on households. The data anlysis shows that at the aggregate level, women form 27 percent of the total workforce. In rural sector, the work participation is 35 percent and in urban, and in the urban it is close to 20 percent. In terms of informality, all the sectors chosen have more than 40 percent of informal workers. Since proportion of informal workers in agriculture sector is as high as 98.6 percent, we assume the whole of agriculture as an informal sector. Similarly, construction is also considered to be an informal sector. In the two sectors - Agroprocessing and Readymade garments, there is fairly high female participation, especially in their informal part. Rest of the manufacturing goods form sector called 'Other Manufacturing' and what remains are Services sector and Public Administration and Defence.

To break up the intermediate flow into formal and informal parts, two aspects are to be considered. One is the output break up and the other the input break up. The production output flow is split into formal and informal part by considering the share of output that is produced formally using the Enterprise Surveys, ASI and NAS information. At present the inputs are broken up using output share of formal and informal parts of a sector. Such break ups may not be very accurate, as Enterprise Surveys are not usually as exhaustive.

While constructing the 1999-00 SAM from 1993-94 input-output table, the coefficients are updated using relative price information to arrive at 1999-00 values. The value added and outputs for the sectors are further adjusted into formal and informal parts for 1999-00, using the GDP and NDP information available for the year from the NAS. It should be noted here that value added and outputs are not directly available for all our sectors from NAS. The sectors for which they are directly available are - Agriculture, Construction Services and Public Administration and defence. For manufactured goods, NAS gives unadjusted value added from both registered and unregistered sectors. Total adjusted value added for the whole sector is also given. Hence computing adjusted value added for all the sectors and combining registered and unregistered, we get required value added for individual items that comprise of manufactured goods. To get value of output for sectors for which these are not available from NAS, we use value added output ratio of 1993-94 I-O table and apply it on value added information. Using these ratios we get value added and outputs for all the 11 sectors of our study. From NAS, we get registered and unregistered value added for all the sectors. The sectors are finally broken into formal and informal components using the shares of registered and unregistered in total value added.

#### II.2. The women workers

The table below (Table II.1) shows that a very large share of women are in agricultural sector, which is more than the men's share in this sector by 20 percentage points. Women in service sector follow this. Men have substantially higher shares of workers in other manufacturing goods and service sectors.

TABLE II.1 PERCENTAGE SHARE OF WORKERS BY SECTORS

		Female Workers across sectors	Male Workers across sectors
Agriculture	I	72.51	52.38
Agro Processing	F	1.16	0.72
Agro Processing	I	3.24	1.34
Readymade Garments	F	0.29	<mark>0.35</mark>
Readymade Garments	I	0.19	0.24
Other manufacturing goods	F	3.15	<mark>6.91</mark>
Other manufacturing goods	I	3.69	<mark>4.76</mark>
Construction	I	1.16	<mark>4.30</mark>
Other Services	F	8.62	14.51
Other Services	I	4.98	11.30
Government Services	F	1.02	<mark>3.17</mark>
Total		100.00	100.00

The distribution of workers by each of the 11 sectors into different types of factors of production is computed by using the data from the Employment-Unemployment Survey (Round 55) of the NSSO. In this survey, each household member is asked about his/her status of work. We process the information and distinguish the following 12 factors of production.

Labour Casual - Female
Labour Casual - Male
Labour HB - Female
Labour HB - Male
Labour Regular - Female
Labour Regular - Male
OAW - Female
OAW - Male
OAW HB - Female
OAW HB - Female
Employer - Female
Employer - Male

Casual labour, male or female, are informal workers who work as casual wagers both in formal and informal sectors. Regular labour are called formal workers as they are regular wage or salary earners. It is assumed that there are no formal workers in informal sectors. However, the formal part of a sector can employ both formal and informal workers. Own Account workers are informal capital owners. The Employers employ either 10 or more workers with the electricity or employ 20 or more workers without the electricity. Rest of the employers are formal Capitalists. Amongst the informal workers and capitalists, few are involved in home-based enterprises too. We map factors of production obtained from NSSO data analysis by different sectors, we distribute the NAS value added for each sector according to the factor ownership. The NAS provide sectoral information with respect to a broad division of registered and unregistered parts of value added. Labour and capital earnings from NAS are then distributed according to NSSO share of each type of labour and capital ownership and wage and capital earning rates both for male and female. NSSO shares have been used to get an estimate of value added distribution by casual labour, regular labour, homebased labour, own account workers, own account homebased workers and employers by gender. The following table (Table II.2) shows that of all the women workers, 74 percent are casual workers, about 4.3 percent are homebased workers, and 14 percent are own account workers. Regular workers account only for about 7 percent of total women work force. In case of men workers, 48 percent are casual workers, about 4.5 percent are homebased workers, 34 percent are own account workers and about 14 percent are regular workers. Generally women have higher shares of casual workers in all sectors. The exceptions are readymade garment sector, where men have higher share of workers as casual workers than women. As this sector is traditionally accepted sector for women to work in, there could be more women entering into formal employment. This is an important point as the earlier study conducted by Sinha and Sangeeta (2001) did not show such findings. The garment sector is also growing due to the competitive advantage of this sector in the global market. It is therefore important to examine whether the growth of the sector would have a favourable impact on the women workers.

Tables below show that when we consider the total workers in a particular sector, women workers are significant in agricultural sector. Interestingly again more than 10 percent of all workers in readymade garment formal sector are women regular workers. Women casual workers form 20 percent of all work force accounted for in the economy. As total share of women workers is about 27 percent this accounts for 74 percent of total women workers.

TABLE II.2 PERCENTAGE DISTRIBUTION OF FACTOR OWNERS IN SECTORS FOR FEMALES

FEMALE		Casual Labour	Home Based Labour	Regular Labour	Own Account Worker	Own Account Worker - Home Based	Employer	Total Female Workers ('000)	% to all Workers
Agriculture	I	<mark>86.11</mark>	0.00	0.00	13.89	0.00	0.00	67264	19.35%
Agro Processing	F	<mark>39.47</mark>	0.00	21.43	<mark>39.10</mark>	0.00	0.00	1073	0.31%
Agro Processing	I	<del>37.12</del>	18.50	0.00	<mark>9.92</mark>	<del>34.46</del>	0.00	3009	0.87%
Readymade Garments	F	21.55	0.00	<mark>44.95</mark>	<mark>33.50</mark>	0.00	0.00	<mark>267</mark>	0.08%
Readymade Garments	I	<mark>28.31</mark>	<b>6.75</b>	0.00	10.66	54.28	0.00	180	0.05%
Other manufacturing goods	F	<mark>55.34</mark>	0.00	21.85	<mark>22.73</mark>	0.00	0.08	<mark>2922</mark>	0.84%
Other manufacturing goods	I	<mark>55.48</mark>	23.54	0.00	<mark>3.56</mark>	17.42	0.00	3418	0.98%
Construction	I	<mark>98.27</mark>	0.00	0.00	1.73	0.00	0.00	1073	0.31%
Other Services	F	14.77	0.00	<mark>62.66</mark>	<mark>22.56</mark>	0.00	0.00	<mark>7997</mark>	2.30%
Other Services	I	<mark>71.74</mark>	12.70	0.00	8.41	<mark>7.14</mark>	0.00	<mark>4616</mark>	1.33%
Government Services	F	<mark>4.39</mark>	0.00	<mark>95.61</mark>	0.00	0.00	0.00	943	0.27%
Total		<mark>74.03</mark>	2.11	<mark>7.44</mark>	<mark>14.19</mark>	<mark>2.22</mark>	0.00	<mark>92762</mark>	26.69%

The table on women factor owners reveal that 76 percent of women workers are casual and home based labourers. Moreover only about 7 percent of women workers are formal and the rest are all informal workers including own account workers.

TABLE II.3 PERCENTAGE DISTRIBUTION OF FACTOR OWNERS IN SECTORS FOR MALES

MALE		Casual Labour	Home Based Labour	Regular Labour	Own Account Worker	Own Account Worker - Home Based	Employer	Total male Workers ('000)	% to all Workers
Agriculture	I	<mark>59.86</mark>	0.00	0.00	40.14	0.00	0.00	133492	38.40%
Agro Processing	F	<mark>25.45</mark>	0.00	<mark>46.86</mark>	<mark>27.22</mark>	0.00	0.47	<mark>1838</mark>	0.53%
Agro Processing	I	<mark>44.89</mark>	12.66	0.00	<mark>23.22</mark>	19.23	0.00	<mark>3424</mark>	0.99%
Readymade Garments	F	<mark>26.89</mark>	0.00	<mark>37.16</mark>	<mark>34.38</mark>	0.00	1.58	<mark>904</mark>	0.26%
Readymade Garments	I	33.24	5.72	0.00	34.56	<mark>26.47</mark>	0.00	<mark>616</mark>	0.18%
Other manufacturing goods	F	<mark>33.83</mark>	0.00	<mark>47.33</mark>	<mark>18.49</mark>	0.00	0.34	17622	5.07%
Other manufacturing goods	I	<mark>45.16</mark>	12.64	0.00	20.95	21.25	0.00	12141	3.49%
Construction	I	77.23	0.00	0.00	22.77	0.00	0.00	10965	3.15%
Other Services	F	10.29	0.00	<mark>48.91</mark>	<mark>40.69</mark>	0.00	0.11	<mark>36981</mark>	10.64%
Other Services	I	52.49	10.38	0.00	27.28	9.85	0.00	<mark>28798</mark>	8.28%
Government Services	F	<b>2.83</b>	0.00	97.17	0.00	0.00	0.00	8067	2.32%
Total		<mark>47.64</mark>	1.96	13.92	33.99	2.45	0.05	<b>254848</b>	73.31%

The above table shows that 50 percent of male workers are casual and home based workers. As high as 37 percent are own account workers, having more independence in their work. Regular workers at 14 percent is double that of female regular workers.

TABLE II.4 PERCENTAGE DISTRIBUTION OF FACTOR OWNERS IN SECTORS FOR ALL WORKERS

All Workers		Casual Labour	Home Based Labour	Regular Labour	Own Account Worker	Own Account Worker - Home Based	Employer	Total Workers	% to all workers
Agriculture	I	<mark>68.65</mark>	0.00	0.00	31.35	0.00	0.00	200756	100.00
Agro Processing	F	30.62	0.00	<mark>37.49</mark>	31.60	0.00	0.30	<mark>2911</mark>	100.00
Agro Processing	I	41.25	15.39	0.00	17.00	<mark>26.35</mark>	0.00	6433	100.00
Readymade Garments	F	<mark>25.67</mark>	0.00	<mark>38.93</mark>	34.18	0.00	1.22	1170	100.00
Readymade Garments	I	32.13	<b>5.95</b>	0.00	<mark>29.16</mark>	32.76	0.00	<mark>796</mark>	100.00
Other manufacturing goods	F	<mark>36.89</mark>	0.00	43.71	19.10	0.00	0.30	20543	100.00
Other manufacturing goods	I	<mark>47.43</mark>	15.03	0.00	17.13	20.41	0.00	15560	100.00
Construction	I	<mark>79.11</mark>	0.00	0.00	<mark>20.89</mark>	0.00	0.00	12038	100.00
Other Services	F	11.09	0.00	51.35	<del>37.47</del>	0.00	0.09	44978	100.00
Other Services	I	55.15	10.70	0.00	24.68	9.48	0.00	33414	100.00
Government Services	F	3.00	0.00	<mark>97.00</mark>	0.00	0.00	0.00	9009	100.00
Total		<del>54.69</del>	2.00	12.19	28.70	2.39	0.04	347610	100.00

The above table (Table II.4) shows that within the economy the total share of informal workers and own account workers are as high as 88 percent. We have also seen that the share is due to 93 percent of women informal workers as compared to 86 percent of men informal workers.

# II.3. Earnings by gender

The factor ownerships and the earnings by gender as depicted in the following tables reflect the fact that women workers generally earn less compared to their male counterparts in all sectors except as own account workers in agriculture and employers in other manufacturing formal sector. However, as we do not robust gender specific rates of returns these numbers are not as such very representative. Both male casual labourers and regular labourers earn substantially more than female counterparts.

# TABLE II.5 PERCENTAGE DISTRIBUTION () F FACTOR OWNERS IN INDUSTRY SECTORS

Sector	Agri.	Agro Process ing	Agro Process ing	Ready made Garments	Ready made Garments	Other manufact uring goods	Other manufact uring goods	Construct ion	Other Services	Other Services	Governm ent Services	<b>Total</b>
Factors of Production	Ĭ	F	Ĭ	F	Ĭ	F	Ĭ	I	F	<u>I</u>	F	
Lab Cas - Female	28.85	14.55	17.36	4.91	<mark>6.40</mark>	<mark>7.87</mark>	12.19	<mark>8.76</mark>	2.63	<mark>9.91</mark>	0.46	19.76
Lab Cas - Male	39.80	16.07	23.89	20.76	25.73	29.02	35.24	70.35	8.46	45.24	2.54	34.93
Lab HB – Female	0.00	0.00	8.65	0.00	1.53	0.00	<mark>5.17</mark>	0.00	0.00	<mark>1.76</mark>	0.00	<mark>0.56</mark>
Lab HB - Male	0.00	0.00	<mark>6.74</mark>	0.00	<mark>4.43</mark>	0.00	<mark>9.86</mark>	0.00	0.00	<mark>8.94</mark>	0.00	1.44
Lab Reg - Female	0.00	<mark>7.90</mark>	0.00	10.25	0.00	3.11	0.00	0.00	11.14	0.00	10.00	1.99
Lab Reg - Male	0.00	29.59	0.00	28.68	0.00	40.60	0.00	0.00	40.21	0.00	87.00	10.20
OAW - Female	<mark>4.65</mark>	14.41	<del>4.64</del>	<mark>7.64</mark>	2.41	3.23	0.78	0.15	4.01	1.16	0.00	3.79
OAW - Male	<mark>26.69</mark>	17.19	12.36	<mark>26.54</mark>	<mark>26.75</mark>	15.86	16.35	20.74	33.46	23.51	0.00	<mark>24.92</mark>
OAW - HB - Female	0.00	0.00	<mark>16.12</mark>	0.00	12.27	0.00	3.83	0.00	0.00	0.99	0.00	<mark>0.59</mark>
OAW - HB - Male	0.00	0.00	10.24	0.00	20.49	0.00	<mark>16.58</mark>	0.00	0.00	8.49	0.00	1.79
Employer - Female	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Employer - Male	0.00	0.30	0.00	1.22	0.00	0.29	0.00	0.00	0.09	0.00	0.00	0.04
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

# TABLE II.6 Percentage distribution O F Factor Earnings In Industry Sectors

Sector	Agri culture	Agro Process ing	Agro Process ing	Ready made Garments	Ready made Garments	Other manufact uring goods	Other manufact uring goods	Construct ion	Other Services	Other Services	Governm ent Services	Total
Factors of Production	Ĭ	F	Ţ	F	Ī	F	I	I	F	I	F	
Lab Cas - Female	15.92	4.47	8.20	1.67	4.92	1.70	4.31	5.34	0.72	2.60	0.00	<mark>5.66</mark>
Lab Cas - Male	34.08	<mark>7.68</mark>	18.77	9.05	24.14	10.07	23.20	<mark>67.09</mark>	4.06	26.82	0.00	21.39
Lab HB - Female	0.00	0.00	2.04	0.00	0.55	0.00	0.91	0.00	0.00	0.23	0.00	0.09
Lab HB - Male	0.00	0.00	2.65	0.00	2.11	0.00	3.25	0.00	0.00	2.65	0.00	0.54
Lab Reg - Female	0.00	2.64	0.00	<mark>4.26</mark>	0.00	0.83	0.00	0.00	4.86	0.00	0.00	3.44
Lab Reg - Male	0.00	16.89	0.00	<mark>16.68</mark>	0.00	19.07	0.00	0.00	22.66	0.00	0.00	17.57
OAW - Female	15.00	30.87	7.31	14.75	2.66	11.39	1.42	0.20	7.23	2.30	0.00	<mark>7.46</mark>
OAW - Male	35.00	36.82	19.48	51.23	<mark>29.53</mark>	<mark>55.88</mark>	<mark>29.76</mark>	27.37	60.31	<mark>46.61</mark>	0.00	<mark>39.11</mark>
OAW - HB - Female	0.00	0.00	25.40	0.00	13.52	0.00	<mark>6.97</mark>	0.00	0.00	1.96	0.00	0.79
OAW - HB - Male	0.00	0.00	16.13	0.00	<mark>22.58</mark>	0.00	30.18	0.00	0.00	16.83	0.00	3.80
Employer - Female	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
Employer - Male	0.00	0.64	0.00	<mark>2.36</mark>	0.00	1.02	0.00	0.00	0.16	0.00	0.00	0.15
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	100.00

#### **III.** Household Characteristics

The activity of each member within a household is obtained from the NSSO's 55<sup>th</sup> round survey (NSSO, 1999-00). We have used only labour force activities for building the SAM as a base data set for the CGE model. However, it is important to understand the structure of a household and also the contribution household members make towards the well being of a household through domestic and other unpaid duties.

In a developing country most households operate within an informal system and their number even increase with modernization (Duchin ,1998). The hypothesis we have is that households earning income through informal activities will have a different economic behaviour compared to households earning from formal activities. It has been observed that informal households consume more of agricultural products. Informal households face uncertainty of income flows and are also outside of security rights. It may be noted here that apart from categorising households as merely formal or informal it is meaningful to have other socio-economic characteristics to distinguish the households. It is possible that at certain high level of earnings the difference in behaviour of formal and informal households may be marginal. However, most of the households involved in informal activities are poor. It has been estimated that 86 percent of households in India can be termed as informal and 39 percent of the population residing in such households are below the poverty line. Furthermore, a large proportion of women are involved in the informal sector and as such belong to informal households (Sinha, Siddiqui, and Sangeeta 2003).

In this study we distinguish households first as rural or urban. Next households are classified as formal and informal by classifying the NIC, NCO and the "Type" codes of households as formal informal. The "Type" code formulated on the basis of composite household information, and the household NIC and NCO codes are provided by NSSO. Households in the urban region are classified as formal with "Type" codes as employers and regular wage earners. In rural regions, exceptions are households with NIC agriculture; even with formal "Type" code, such households are classified as informal. Finally, households are classified into different income levels, i.e., poor and non-poor within each broad category. The households are then scrutinised to identify the different types of workers and factor owners distinguished by gender that make up the household.

The National Sample Survey Organisation (NSSO) survey assigns a five-digit industry code based on the National Industrial Classification (NIC) 1998 to each surveyed household and the status code to each household member based on the nature of their principal activity. Each 5-digit industry code is mapped with our sectors. And the formal-informal identification of the sectors is done after scrutinising these activities and by using qualitative judgement. This exercise is done separately for the rural and urban regions, as there are certain activities, which are informal in rural sector but formal in, urban. The survey also assigns a 'Type' code giving information on the characteristics of the surveyed households. These type codes are different for rural and urban areas. A household is given certain type code depending on the economic activity of the members of the household during the 365 days preceding the date of survey from which the major income of the household was generated.

NSSO Household Type Code Description								
For Rural Areas	For Urban Areas							
1. Self employed in non-agriculture	6. Self Employed							
2. Agricultural Labour	7. Regular Wage/Salary Earner							
3. Other labour	8. Casual Labour							
4. Self Employed in agriculture	9. Others							
5. Others								

Using these type codes and the status codes, we assign our own Household Type codes to each household. Our classification of households for rural and urban areas is as follows.

Our Household Type Code Description							
For Rural Areas	For Urban Areas						
1. Non-agriculturist - Poor - Formal	7. Poor - Formal						
2. Non-agriculturist - Non Poor - Formal	8. Non Poor - Formal						
3. Agriculturist - Poor - Informal	9. Poor - Informal						
4. Agriculturist - Non Poor - Informal	10. Non Poor - Informal						
5. Non-agriculturist - Poor - Informal							
6. Non-agriculturist - Non Poor - Informal							

For Rural Areas, NSSO Household Type codes 1, 2 and 3 are all called Informal Agriculturists in our type of classification. These household types are then split into poor and non-poor using the Planning Commission Poverty lines. According to the Planning Commission criteria for rural sector, those earning less than Rs. 327.56 are poor and for the urban sector, those earning less than an average of Rs. 454.11 per month fall below poverty line. The Type code 'Self employed in Non agriculture' is further studied and broken into formal and informal part. We adopt the CSO definition and assume that self-employed are actually formal employers who employ either 10 or more workers with the aid of power or 20 or more workers without the aid of power. Rest of the self-employed are informal employers. These household types are further split into poor and non-poor categories using poverty lines as mentioned earlier.

For Urban areas, household type - 'regular wage earners', as in NSSO classification, is classified as formal households and type 'casual labour' as informal households. Moreover, 'self employed' are both formal and informal, and are again broken into these as in the rural sector. These households are then differentiated into poor and non-poor using the Planning Commission criteria as mentioned above.

TABLE III, 1 TYPES OF HOUSEHOLDS BY FORMAL AND INFORMAL CATEGORIES

(percent)

RURAL			<u> </u>
	FORMAL	INFORMAL	ALL INDIA
POOR	16.11	27.01	26.81
NON POOR	83.89	72.99	73.19
TOTAL	100.00	100.00	100.00
URBAN			
	FORMAL	INFORMAL	ALL INDIA
POOR	10.93	29.23	20.66
NON POOR	89.07	70.77	79.34
TOTAL	100.00	100.00	100.00
ALL HOUSEHOLDS			
	FORMAL	INFORMAL	ALL INDIA
POOR	11.20	27.64	24.22
NON POOR	88.80	72.36	75.78
TOTAL	100.00	100.00	100.00

TABLE III, 2 DISTRIBUTION OF FEMALE MEMBER ACTIVITY WITHIN FORMAL INFORMAL HOUSEHOLDS (PERCENT)

FEMALE	Rural For Agricu	rmal Non ılturist	Urban l	Formal	Rural In Agricu		Rural Info	rmal - Non ılturist	Urban I	nformal
	Poor	Non Poor	Poor	Non Poor	Poor	Non Po or	Poor	Non Poor	Poor	Non Poor
Casual Labour	12.19	12.30	3.68	1.03	28.52	28.05	16.29	15.16	12.22	7.36
Home Based Labour	0.14	0.14	0.04	0.01	0.33	0.32	0.19	0.17	0.14	0.37
Regular Labour	9.79	9.58	5.80	9.14	0.39	0.57	0.31	0.72	1.48	2.40
Own Account Worker	1.96	6.18	2.32	1.86	2.53	4.23	4.91	6.24	3.87	1.83
Own Account Worker - Home Based	0.33	1.03	0.39	0.31	0.42	0.70	0.82	1.04	0.64	2.66
Employer	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01
Worker	24.41	29.23	12.23	12.35	32.18	33.87	22.51	23.34	18.36	14.62
Non Worker	75.59	70.77	87.77	87.65	67.82	66.13	77.49	76.66	81.64	85.38
Total	100	100	100	100	100	100	100	100	100	100
Total Percentage by HH category	0.26%	0.81%	2.04%	9.24%	23.75%	37.75%	3.44%	7.87%	6.00%	8.83%

TABLE III.3 DISTRIBUTION OF MALE MEMBER ACTIVITY WITHIN FORMAL INFORMAL HOUSEHOLDS (PERCENT)

MALE	Rural For Agricu	rmal Non ılturist	Urban 1	Formal	Rural In Agricu			rmal - Non ılturist	Urban I	nformal
	Poor	Non Poor	Poor	Non Poor	Poor	Non Poor	Poor	Non Poor	Poor	Non Poor
Casual Labour	8.87	5.23	6.23	2.20	35.50	32.19	11.39	11.31	25.14	18.14
Home Based Labour	0.11	0.06	0.08	0.03	0.44	0.40	0.14	0.14	0.31	0.99
Regular Labour	36.31	47.87	36.01	48.51	1.24	2.22	0.86	1.79	3.34	4.15
Own Account Worker	0.28	1.32	2.85	2.89	11.83	21.58	32.23	38.99	19.35	28.58
Own Account Worker - Home Based	0.02	0.09	0.19	0.19	0.79	1.44	2.15	2.60	1.29	6.58
Employer	0.00	0.65	0.02	0.18	0.00	0.00	0.01	0.06	0.00	0.10
Worker	45.59	55.23	45.37	54.00	49.79	57.82	46.77	54.89	49.42	58.53
Non Worker	54.41	44.77	54.63	46.00	50.21	42.18	53.23	45.11	50.58	41.47
Total	100	100	100	100	100	100	100	100	100	100
Total Percentage by HH category	0.23%	0.83%	1.86%	9.88%	22.16%	38.58%	3.26%	8.06%	5.77%	9.36%

# TABLE III.4 DISTRIBUTION OF MEMBER ACTIVITY WITHIN ALL HOUSEHOLDS (PERCENT)

	FEMALE	MALE
Casual Labour	20.8011%	25.1169%
Home Based Labour	0.2627%	0.3801%
Regular Labour	1.7433%	7.8248%
Own Account Worker	3.5242%	19.2865%
Own Account Worker - Home Based	0.7945%	1.7217%
Employer	0.0012%	0.0384%
Worker	27.1270%	54.3684 %
Non Worker	72.8730%	45.6316%
Total	100.0000%	100.0000%

The tables given above (Table III.2 and Table III.3) show that in all types of poor households women have higher shares of members than their male counterparts. The last table of these trio shows that workers are only 27 percent in case of women members compared to 54 percent of male members. The situation of women thus is vulnerable compared to men. This also highlights the fact that reforms even if geared to positively impact all types of market workers within the market economy, would leave the majority of women unpaid workers outside its benefit. In the present study, we assume that home-based workers are proxy to all types of unpaid work based at home. So any policy that would impact home based work would be the policies that would impact unpaid work that are somewhat related to specific sectors. The above tables further show that female work force is mostly informal and even in formal rural households females are engaged more as informal workers.

# III.1. Consumption Expenditure

The consumption behaviour of different types of households is studied using the Consumer Expenditure Survey conducted by the NSSO (55<sup>th</sup> Round). Data on consumption expenditure on 643 items of consumption are available from this survey. These items of consumption have been aggregated to have one-to-one correspondence with the industry sectors formulated for this study (see Appendix ..). Hence the survey data provides us with the information on how much each type of household spends on each of the industry sectors (formal and informal combined). Next we distinguish the consumption expenditure of households by consumption on formal and informal parts of the sectors as well. For this, we apply output shares of formal informal parts of the respective sectors on the expenditure on each sector. Hence we have the share of consumption of the different households on the produce of each of the 11 sectors. This structure is to be applied on the Private Final Consumption Expenditure (PFCE) of our Social Accounting Matrix, which is the updated PFCE of the year 1993-94.

TABLE III.5 PATTERN OF HOUSEHOLDS' CONSUMPTION EXPENDITURE (PERCENT)

Sectors\ Households	Rural Poor - Non Agri	Rural Non Poor - Non Agri	Urban Poor	Urban Non Poor	Rural Poor - Agri	Rural Non Poor - Agri	Poor -	Rural Non Poor - Non Agri	Urban Poor	Urban Non Poor	TOTAL
Agriculture	39.31	34.81	39.36	32.65	30.71	13.71	26.47	21.30	29.82	20.70	23.65
Agro Processing	10.08	9.02	8.60	9.02	4.60	4.34	5.84	4.72	5.32	4.52	5.18
Agro Processing	7.73	6.92	6.59	6.92	4.87	1.99	4.47	3.62	4.08	3.47	3.89
Readymade Garments	0.23	0.25	0.20	0.24	0.23	0.36	0.19	0.36	0.21	0.25	0.28
Readymade Garments	0.06	0.08	0.07	0.08	0.07	0.12	0.06	0.54	0.07	0.08	0.14
Other manufacturing goods	24.89	23.57	24.21	23.09	17.16	12.94	17.57	11.21	16.40	16.37	15.90
Other manufacturing goods	6.17	5.83	5.99	5.71	1.99	4.49	4.35	4.66	4.06	4.05	3.97
Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Services	7.13	12.06	9.25	13.77	29.33	33.02	25.36	34.42	24.75	35.63	29.04
Other Services	4.40	7.46	5.72	8.51	11.03	29.04	15.68	19.17	15.30	14.93	17.95
Government Services	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	-

The above table (Table III.5) shows that the poor households consume most of agricultural and agro processed goods. The major difference in poor and non-poor households is the consumption of services.

#### IV. The Base Data

The data base for a CGE model is a Social Accounting Matrix (SAM). The SAM combines information from different sources in a consistent framework to reflect the economic and social structure of an economy at a particular point in time. The SAM constructed in this work distinguishes factors of production by formal and informal parts as well as by gender. We have mapped the flow of value added from sectors to the different types of factors of production and also have mapped the flow of factor earnings `to different types of factor owners within households, thus determining the factor incomes of these households. The major steps in building the base SAM for the CGE model are explained in the following sub-sections. To complete the SAM we have used information from other sources as well, such as savings rates which are from MIMAP data analysed at NCAER.

The base data set of a CGE framework incorporating the informal sector would be a Social Accounting Matrix (SAM). For such models, the SAM can incorporate the informal sector in different forms such as activities, factors and households (see Sinha, Siddiqui and Sangeeta, 2002). However, a number of assumptions must be made in order to maintain the internal consistency of the SAM and separate value-added between formal and informal sectors (for example, see Sinha and Sangeeta, 2000). In the SAM constructed by Kelley (1994) informal output not captured by the National Accounts are excluded from the SAM. Although this imparts a downward bias to the size of the informal sector, it is necessary in order to maintain the SAM's internal consistency. Kelley argues that the informal sector's smaller size should only change the magnitude, not the direction of change, of the simulations. Other assumptions, built on the stylised facts of the informal sector, help divide value-added between formal and informal processes. In the model, informal processes pay no taxes, do not use imported intermediates and operate with so little capital that all depreciation is attributed to the formal sector.

Once formal and informal sector employment is determined, their respective output can be determined from the relative labour productivities, which are difficult to obtain. Carbonetto and Carazo (1986) estimate productivity in the formal sector to be five times greater than the informal sector, so they define the informal sector by low productivity. Furthermore, they do not differentiate according to commodity so productivity differences could reflect differences in type of output rather than production technologies. De Soto and his ILD are another source of data on the informal sector. Although there are methodological errors in their estimates of the informal sector's overall size (Rossini and Thomas, 1990), their figures for productivity differences between formal and informal processes for individual commodities are reasonable. Combining these estimates with the output and employment data for each commodity from the National Accounts gives the relative size of formal and informal output for each commodity. The absolute levels are then adjusted to match the total level of output. Note that this approach does not account for differences in hours worked between formal and informal enterprises as reported by Carbonetto, Hoyle and Tueros (1987) which implies this process understates the informal sector's actual size.

# V. The CGE Model

We have discussed the data as a base for the modelling structure. We now characterise the economic system generating the data. We can think of a (general equilibrium) model as a systematic and internally consistent description of the behavioural relations, constants and market clearing conditions, which could have generated the SAM. Moreover, the specific form of the model will

determine how the system reacts when perturbed. Unlike econometric analysis, the process of calibration allows all models to fit the baseline data equally well.

There are not many CGE models at present having a gender dimension. Still currently with the importance of understanding the contribution of non-market work a few good gender aware CGE models are being developed. A gender aware CGE model would naturally distinguish between men and women in its variables and behavioural relationships. The Fontana and Wood model (2000) allows for capturing the interactions between productive and care sectors of the economy. Female wage rates rise when the leisure and care sectors are omitted. The changes are larger because omission of leisure and care sectors makes the supply of labour to the market economy much smaller and less elastic. This model considers the details of gender composition of the labour market and household work. The paper studies the impact of world price change on male workers and female workers in terms of both market and non-market work.

The CGE model developed is of the type discussed in Devarajan, et al (1996), which are widely used trade focussed models for developing countries. In this model we intend to characterize the consequences of changes in trade policy for the distribution of income between the formal and informal factors (Sinha and Adam, 2000) distinguished by gender and across a variety of household types. The distribution of factor income flows, both formal and informal by gender, between household types is treated as parametric, obtained from the baseline data. This model is similar in character to the CGE model developed for India, Sinha and Sangeeta (2000) where factors of production are distinguished six categories divided by gender. Further Sinha (2002) augmented the CGE model by differentiating factors of production by twelve categories. The other important feature of the past studies is the distinction of 13 types of households in the model and each household type has been identified with information of gender ratios. The model in this study has used more recent household survey data and also information on home based workers. Moreover capitalists are also distinguished by gender. Formal and informal capital owners are distinguished very carefully, keeping the CSO definition of formal enterprises in view.

This is a real economy model. Therefore, real consumer demand functions and producer supply functions are homogeneous of degree zero in the aggregate price level. Here at present we abstract from macroeconomic considerations, so that the government is not restricted to a balanced budget. With no exogenous shock the model exactly replicates the baseline data. The model is being written using the GAMS programming language.

## VI. Simulations

To analyse the impact of trade policy changes and certain pro-poor domestic policy change we have designed three simulations using the CGE model. The simulations are:

**Simulation 1:** A decrease in tariff in the all manufacturing sectors by 50 percent

**Simulation 2:** An increase in direct taxes if formal rich households to compensate the decrease in tariff reduction as in simulation 1. This keeps government revenue unchanged.

We then study the impact of the policy changes as noted above on average wages, relative prices, Consumer Price Index (CPI), private consumption by households, domestic output, exports, imports and an overall welfare measure.

#### **VI.1.** Impact on Factor Remuneration:

The factor intensity in the base level is presented in Table VI.1. We see that male workers are intensive in all sectors except the manufacturing sector is less intensive in regular labour both male and female. In case of simulation 1, there is contraction in sectors like manufacturing as well as in construction which are more intensive in regular male labour. So the relative remuneration of regular male labour rise relatively at a lower rate in the simulations.

TABLE VI.1 SECTOR WISE FACTOR INTENSITY DISTINGUISHED BY GENDER

	LCF	LCM	LHBF	LHBM	LRGF	LRGM
AGRIC	0.420	0.580	0.000	0.000	0.000	0.000
AGROPRF	0.214	0.236	0.000	0.000	0.116	0.434
AGROPRIF	0.307	0.422	0.153	0.119	0.000	0.000
RGMF	0.076	0.321	0.000	0.000	0.159	0.444
RGMIF	0.168	0.676	0.040	0.116	0.000	0.000
OTMGF	0.098	0.360	0.000	0.000	0.039	0.504
OTMGIF	0.195	0.564	0.083	0.158	0.000	0.000
CONST	0.111	0.889	0.000	0.000	0.000	0.000
OTSERF	0.042	0.135	0.000	0.000	0.178	0.644
OTSERIF	0.151	0.687	0.027	0.136	0.000	0.000
PUB	0.005	0.025	0.000	0.000	0.100	0.870

We present below in Table VI.2 the sectoral imports, average tariff rates by sector in the base case and for the simulation 1 scenario and the relative price change in simulation 1. The lower tariff and the resultant lower import prices would change the relative demand for domestic goods to imports in each sector. These changes depend on the reduction of tariff rates and the elasticities of substitution. However, given common Armington elasticities for all sectors, the import share and tariff rates will play the main role in variation in sectoral relative prices and hence sectoral production. Moreover as the Table on domestic output change (Table VI.5) shows, there is decline in non-tradable sector such as construction and in sectors which have zero or very low tariff rates to start with. The table on factor intensity above shows that female workers are less intensive in all sectors except in agroprocessing informal sector which have a higher share of only home based female workers. Whenever there is a decline in a sector the demand for more intensive factors of production contract relatively more than the less intensive one.

TABLE VI.2: PERCENTAGE CHANGE IN TARIFF RATES AND R ELATIVE PRICES IN SIMULATION 1

	Imports	Tariff rate		Relative Price
	Base	Base	Simulation 1	Simulation 1
AGRIC	13157	0.00%	0.00%	-0.70%
AGROPRF	6553	38.55%	19.27%	5.06%
AGROPRIF	5139	38.30%	19.15%	5.03%
RGMF	7090	0.81%	0.40%	-1.45%
RGMIF	2301	0.50%	0.25%	-1.32%
OTMGF	53094	13.76%	6.88%	1.21%
OTMGIF	22031	12.37%	6.19%	0.98%
OTSERF	62632	0.00%	0.00%	-1.10%
OTSERIF	38715	0.00%	0.00%	-0.87%

As a result of such contraction of demand for the intensive factors of production, their wage rates decline comparatively more than the less intensive factors of production, namely female workers in our case.

The resultant employment demand leads to wage rate changes in case there is no supply constraint. As we have not captured any dynamic aspects in the model and have not incorporated any supply constraints of labour we see that the wages of female labour rises comparatively more than male workers. Here we must also note that the workers here are only the ones which are within traditional market force work. We also cannot say whether female non-paid workers get any advantage from the trade reforms as mentioned above. However, we can say that the advantage of relative wage rise only accrues to 27 percent of female workers.

TABLE VI.3 PERCENTAGE CHANGE IN REAL AVERAGE WAGE RATE BY SKILL

	BASE	Simulation 01	Simulation 02
LCF	1495.3700	0.3293	0.1318
LCM	3234.4200	0.2997	0.1730
LHBF	808.7500	0.3095	0.2500
LHBM	1970.9000	0.3155	0.3486
LRGF	8443.8400	0.3959	0.5560
LRGM	8865.5200	0.2985	0.4685
TOTAL	24818.8000	0.3354	0.4228

Moreover, the relative wage rise of women workers is on a much lower wage rates as women's wages are substantially lower than male wages (see Table VI.3). Therefore, unless the wage rates are more uniform across gender and women's work participation is more intensive, the market impacts do not penetrate the women's welfare in such an economy.

# VI.2. Impact of Trade Liberalisation on Production and Trade

The impacts of the tariff reduction on production and trade are presented in Table below. The table on tariff rate changes as given above (see Table VI.2) shows that agro processing and other manufacturing sector (see Appendix table for sector classification) have the highest tariff rates and so the highest impacts as well. As the table below shows, the import prices of those sectors fall more sharply, which have higher import tariff.

TABLE VI.4 PERCENTAGE CHANGE IN PRICE OF IMPORTED GOODS, CPI AND WELFARE MEASURE

	BASE	Import Tariff	Simulation 01	Simulation 02
AGRIC	1	0	0.0000	0.0000
AGROPRF	1	764	-5.5645	-5.5645
AGROPRIF	1	581	-5.5386	-5.5386
RGMF	1	5	-0.1600	-0.1600
RGMIF	1	1	-0.0990	-0.0990
OTMGF	1	23037	-2.4185	-2.4185
OTMGIF	1	7628	-2.2023	-2.2023
OTSERF	1	0	0.0000	0.0000
OTSERIF	1	0	0.0000	0.0000
Percentage Change in CPI	1		-0.9508	-1.0350

TABLE VI.5 PERCENTAGE CHANGE IN PRICE OF DOMESTIC OUTPUT

	BASE	Simulation 01	Simulation 02
AGRIC	1	-0.6954	-0.9550
AGROPRF	1	-0.7834	-1.0046
AGROPRIF	1	-0.7855	-1.0398
RGMF	1	-1.6070	-1.4473
RGMIF	1	-1.4167	-1.3992
OTMGF	1	-1.2367	-1.2281
OTMGIF	1	-1.2472	-1.2734
OTSERF	1	-0.8689	-0.8399
OTSERIF	1	-0.8618	-0.9292

As a result of the import price change, the relative domestic prices of the sectors that are more import intensive rise as import prices fall more sharply than domestic prices.

TABLE VI.6 PERCENTAGE CHANGE IN RELATIVE PRICE OF DOMESTIC OUTPUT

	BASE	Simulation 01	Simulation 02
AGRIC	1	-0.6954	-0.9550
AGROPRF	1	5.0628	4.8286
AGROPRIF	1	5.0318	4.7626
RGMF	1	-1.4493	-1.2894
RGMIF	1	-1.3190	-1.3015
OTMGF	1	1.2111	1.2199
OTMGIF	1	0.9766	0.9498
OTSERF	1	-1.0969	-1.1050
OTSERIF	1	-0.8689	-0.8399

TABLE VI.7 PERCENTAGE CHANGE IN IMPORTS BY SECTOR

	BASE	Simulation 01	Simulation 02
AGRIC	6378	-0.5125	-0.7619
AGROPRF	2746	3.8449	3.5226
AGROPRIF	2098	3.8136	3.4872
RGMF	625	-1.1776	-0.8289
RGMIF	202	-0.8267	-0.6803
OTMGF	190503	0.7284	0.7866
OTMGIF	69272	0.5365	0.5972
OTSERF	16002	-0.6739	-0.6367
OTSERIF	9891	-0.6576	-0.6591
TOTAL	297717	0.5812	0.6247

As domestic goods become more expensive compared to imported goods the import of these sectors increase as shown in the above table (Table VI.7). Domestic prices fall as shown in the above table, due to the lower intermediate cost as import prices. With lower domestic prices it becomes more profitable to export. Hence exports rise in all the sectors as shown in the table below. The exports rise more sharply in sectors, which have sharper decline in domestic prices than in the others.

TABLE VI.8 PERCENTAGE CHANGE IN EXPORTS BY SECTOR

	BASE	Simulation 01	Simulation 02
AGRIC	13157.0000	0.5343	0.6768
AGROPRF	6553.0000	0.6609	0.6847
AGROPRIF	5139.0000	0.6540	0.7248
RGMF	7090.0000	1.1316	1.2420
RGMIF	2301.0000	1.2446	1.3658
OTMGF	53094.0000	0.7590	0.8041
OTMGIF	22031.0000	0.7503	0.8512
OTSERF	62632.0000	0.6349	0.6285
OTSERIF	38715.0000	0.6407	0.7417
TOTAL	210712.0000	0.6976	0.7526

TABLE VI.9 PERCENTAGE CHANGE IN CONSUMPTION BY SECTOR

	BASE	Simulation 01	Simulation 02
AGRIC	326267	0.012	-0.082
AGROPRF	71486	0.271	0.058
AGROPRIF	53684	0.267	0.074
RGMF	3910	0.843	0.463
RGMIF	1888	0.662	0.486
OTMGF	219353	0.848	0.471
OTMGIF	54712	0.820	0.479
OTSERF	400623	0.172	-0.005
OTSERIF	247634	0.168	0.089
TOTAL	1379557	0.284	0.101

TABLE VI.10 PERCENTAGE CHANGE IN DOMESTIC OUTPUT BY SECTOR

	BASE	Simulation 01	Simulation 02
AGRIC	576307	0.022	-0.029
AGROPRF	90265	0.112	-0.019
AGROPRIF	69446	0.105	-0.003
RGMF	15422	0.474	0.649
RGMIF	5005	0.664	0.792
OTMGF	692995	-0.105	-0.054
OTMGIF	246384	-0.109	-0.027
CONST	235325	-0.741	-0.172
OTSERF	818028	0.029	0.043
OTSERIF	505641	0.040	0.093
PUB	367952	0.000	0.000
TOTAL	3622770	-0.052	-0.002

The relative price change results in consumption demand to rise more sharply in simulation 1. Exports rise and increase in consumption demand results in domestic output to increase. In simulation 2, the consumption demand does not rise as income is reduced by higher taxes. So the overall impact on domestic demand is not positive in most sectors.

# VI.3. Consumption and Wage Differentials

In simulation 1 all types of households benefit. However, we see that in case tariffs are reduced, the poor households have a comparative advantage. This is true in simulation 1, but in simulation 2 as richer households are taxed and the urban non poor formal households have higher tax burden, this household category suffers and have a decline in consumption and hence in welfare. However the policies have an overall positive impact on welfare as market distortions are removed through trade liberalisation.

TABLE VI.11 PERCENTAGE CHANGE IN TO TAL PRIVATE CONSUMPTION BY HOUSEHOLD TYPES

	BASE	Simulation 01	Simulation 02
RPNAF	3532	0.3749	0.5646
RNPNAF	12826	0.3705	0.8415
UPF	34644	0.4224	0.6024
UNPF	125586	0.3933	-2.0148
RPAI	349433	0.2050	0.2344
RNPAI	429015	0.2676	0.2957
RPNAI	62536	0.3245	0.3111
RNPNAI	146871	0.2692	0.3190
UPI	82939	0.2535	0.3163
UNPI	132175	0.3414	0.3904
TOTAL	1379557	0.2762	0.1063
Percentage Change in Welfare Measure	29.984651	0.0075	0.0030

Lastly we examine the relative gain of women and men through the changes in their wage differential ratios. The base column in the following table shows that female casual labourers and home-based workers have a very wide wage differential. The regular labourers are nearer in their wage rates with their male counterparts. In simulation 1 both female casual workers and regular workers have reduced differentials implying that the reforms are benefit these workers. There is a marginal fall in the differential in case of home based workers.

TABLE VI.12 PERCENTAGE CHANGE IN WAGE DIFFERENTIALS BY SKILL AND GENDER

	BASE	Simulation 01	Simulation 02
LCF	0.4623	0.0295	-0.0410
LHBF	0.4103	-0.0060	-0.0983
LRGF	0.9524	0.0971	0.0871

In simulation 2, as direct taxes are increased and the wage differentials widen for the casual and home based workers. This is because most sectors contract as a result of lower demand from households. However, as regular male workers are the worst affected in this simulation, they being in higher proportion in formal richer households, the women regular workers have reduced wage differential.

### VII. Concluding Remarks

The objective of this work has been to develop a framework that would enable the impact of policy changes on women workers and households that are distinguished by gendered members. The basic framework needs a complete mapping of the various sectors, factors of production and households within a consistent macro framework. Moreover as the study requires a mechanism that can enable the study of policy changes through very complex relationships that exist in an economy. Mainly the different prices, wages, returns to capital and interrelationships amongst sectors have to be captured as clearly as possible within a theoretical framework. As the concern of the study is to integrate gender in a framework to be able to study impact of globalisation on women, it is essential that we disintegrate as much as possible all the data that are available to us by gender. This is a task that also throws up many concerns as we make our way through the maze of data. For example, we find out the participation of women in different sectors and also we find out the gaps that exist in data. For example, we have still not been able to get information of time use in a economy wise representative survey and therefore it becomes difficult for us to use such data. Time use survey data would naturally enable one to compute the contribution of women to the economy thorough various activities that are not even included in labour force work Such work contribute to the hidden value added in a household and also helps in generation of future human capital. However, so far such data are not captured by any nation-wide surveys.

The data that have been collected are processed to provide us as much information on gendered variables as we preferably want to obtain to build a basic data framework. A very useful framework capturing the major macro data in an economy is a Social Accounting Matrix (SAM). In this study SAM distinguished by formal and informal sectors and by gender forms the basis for development of a general equilibrium structure such as the Computable General Equilibrium (CGE) model. The advantage of uses CGE model is that it interconnect general equilibrium effects on different policy option. Simulation runs can be designed by using the CGE models so as to get various welfare findings. It is possible to determine the winners and losers due to change in policy

The basic CGE- model is specified as follows. There are r commodities, m consumers and n firms, commodities produced are called goods

Consumer I, I= 1,....,m has preferences given by a utility function  $u_i$ :  $R^r \rightarrow R$  which is strictly concave, nonsatiated and increasing for at least one consumer (say consumer 1). Each consumer owns nonzero endowments of factors but there are no endowments of goods. Factor endowments of consumer 1 are strictly positive.

Firm j, j=1,....., n produces a single commodity and there is at most one firm producing each commodity. Its production function  $f_i: R^r \to R_+$  requires positive inputs of at least one factor (like labour). It is monotonic, has constant returns to scale, strictly convex isoquants and inaction is allowed ( $f_i(0)$ =(0).

We denote consumption by  $x_i$  input demand by  $v_L$  gross production by q and prices by p.

A competitive equilibrium of the basic CGE-model is an allocation  $x^*_i$ ,  $q^*_j$ ,  $v^*_j$  supported by a price vector  $p^*$ , such that:

- (1) Consumer maximise their utility subject to a budget constraint.
- (2) Firm maximise their profits, markets clear determine related price.

Tariff reduction leads to welfare gains (measured as rise in real consumption expenditure of households) in most households as prices fall. However the poorer households gain relatively more. This is because the casual wage rates fare better due to contraction in sectors where they are less concentrated. Interestingly as women are less concentrated as workers they benefit more than men

wage earners. As we had mentioned earlier, in this study we have not examined the women workers who fall outside of labour force. So this is only a partial analysis. At the same time it is important to examine whether the policy changes are impacting the working (labour force) women adversely or not. The study shows that "working" women do benefit in case of globalisation. The findings show that as a result of removing the market distortion, there is overall welfare gain. More importantly poorer households benefit more than the richer ones. As we examine the wage differentials between genders we see that in most cases the gap reduces with import liberalisation. However, progressive direct taxation does not have very positive impact as such a measure reduces overall demand. Therefore the growth of the economy is constrained by direct taxation and that had adverse impact n women as well.

So far our simulations are local approximations based on the assumption that factor/gender proportions do not alter (although there may be top level substitution of capital for labour). For example, we would need a theory (and hence a structural model) about way in which formal and informal factor markets function and how gender discrimination works. We might want to model two separate labour markets for men and women that would require investigation about how these two markets work.

It is obvious that much work needs to be done in carrying out analysis that is meaningful in understanding the impact of policy and structural changes on all women, meaning the large part which lie beyond the labour force work. Richer specification of gender related issues can be formulated if the model endogenises non-labour force work rather than only labour-force work. This research has revealed that women carry out much of the domestic work. More information is required on the way women and men spend their time on different activities through for example through the use of time use surveys. It is also necessary to analyse the constraints faced by women to enter labour market with their choice reflecting the value of "reproductive" work (this term is explained below) they are involved with.

It has been recognised now that gendered structures, inequalities at various levels are integral and subject matter of macro economics (Evers, 2003). Though it is indeed possible to model gender aspects in different ways, the message to policy makers is that the differences exist and a policy that does not take such differences in consideration is not likely to have favourable impact to our target group, i.e., the women.

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# **APPENDICES**

# **APPENDIX A: CGE Model**

# THE MODEL EQUATIONS AS WRITTEN IN GAMS LANGUAGE

The terms of operation are explained below:

\* = Multiplication \*\* = To the power of Sum = Sum of

Prod = Products of

## The sets are as given below:

IP(I)	PRIVATE SECTORS /AGRIC,AGROPRF,AGROPRIF,RGMF,RGMIF,
	OTMGF,OTMGIF, CONST, OTSERF,OTSERIF/
IM(IP)	IMPORTABLE SECTORS /AGRIC,AGROPRF,AGROPRIF ,RGMF,RGMIF,
	OTMGF,OTMGIF,OTSERF,OTSERIF/
IX(I)	EXPORTABLE SECTORS /AGRIC,AGROPRF,AGROPRIF,RGMF,RGMIF,
	OTMGF,OTMGIF, OTSERF,OTSERIF /
INM(IP	NON-IMPORTABLE SECTORS / CONST /
INX(I)	NON-EXPORTABLE SECTORS / CONST/
IC(IM)	CONSUMPTION SECTORS /AGRIC,AGROPRF,AGROPRIF,RGMF,RGMIF,

OTMGF,OTMGIF, OTSERF,OTSERIF/

#### Where.

#### A.1. Sectors

AGRIC	Agriculture
AGROPRF	Agro Processing Formal
AGROPRIF	Agro Processing Informal
RGMF	Readymade Garments Formal
RGMIF	Readymade Garments Informal
OTMGF	Other manufacturing goods Formal
OTMGIF	Other manufacturing goods Informal
CONST	Construction
OTCEDE	Other Services Formal

OTSERF Other Services Formal
OTSERIF Other Services Informal
PUB Government Services

# A.2. Household Type

RPNAF Rural Poor Non Agriculture Forma
RNPNAF Rural Non Poor Non Agriculture Formal

UPF Urban Poor Formal UNPF Urban Non Poor Formal

RPAI	Rural Poor Agriculture Informal
RNPAI	Rural non Poor Agriculture Informal
RPNAI	Rural Poor non Agriculture Informal
RNPNAI	Rural non Poor non Agriculture Informal

# A.3. Labour Categories

LCF Casual Female LCM Casual Male

LHBF Home Based Female
LHBM Home Based Male
LRGF Regular Female
LRGM Regular Male

## A.4. Capital Categories

OAWF Own Account Workers Female
OAWM Own Account Workers Male

OAWHBF Own account home based workers Female
OAWHBM Own Account Home Based Workers Male

EMPF Employers Female EMPM Employers Male

#### A.5. Prices Block

PMDEF(IM).. PM(IM) = E = PWM(IM)\*ER\*(1 + TM(IM));

PEDEF(IX).. PE(IX) = E = PWE(IX)\*ER\*(1-TE(IX));

 $CONSUMP(IC).. \qquad PC(IC)*Q(IC) = E = PD(IC)*XD(IC) + PM(IC)*M(IC)$IM(IC);$ 

 $SALES(IX).. \qquad PQ(IX)*X(IX) = E = PD(IX)*XD(IX) + PE(IX)*E(IX);$ 

 $SALESN(INX).. \qquad PQ(INX)*X(INX) = E = PD(INX)*XD(INX);$ 

ACTP(IP).. PVA(IP) = E = PQ(IP)\*(1-PTAX(IP)) - SUM(JP,IO(JP,IP)\*PD(JP));

PVAPUB("PUB").. PVA("PUB") = E = (SUM(LC, WA(LC)\*WDIST("PUB",LC)\*L("PUB",LC)))/(PUB",LC) + (PUB",LC) + (PUB",LC)

X("PUB");

 $PKDEF(I).. \qquad \qquad PK(I) = E = SUM(JP, PC(JP)*IMAT(JP,I) \ ); \\$ 

CPIDEF.. CPI =E=SUM(IC, WC(IC)\*PC(IC));

#### A.6. Output And Factors Of Production Block

ACTEQ(I).. X(I) = E = AD(I)\*PROD(LC\*WDIST(I,LC),L(I,LC)\*\*ALPHL(LC,I))\*

KP(I)\*\*ALPHK(I)\*KG\*\*ALPHG(I);

PROFITMAX(IP,LC)\$WDIST(IP,LC)..

 $WA(LC)*WDIST(IP,LC)*L(IP,LC) = E = X(IP)*PVA(IP)*ALPHL(LC,IP) \ ;$ 

 $LMEQUIL(LC).. \hspace{1.5cm} SUM(I,\,L(I,\!LC)) = \!\!E \!\!= LS(LC)\;;$ 

CET(IX).. X(IX) = E = AT(IX)\*(GAMMA(IX)\*E(IX)\*\*(1+1/EPST(IX))+(1-1/EPST(IX))\*(

GAMMA(IX))\*XD(IX)\*\*(1+1/EPST(IX)))\*\*(1/(1+1/EPST(IX)));

ESUPPLY(IX).. E(IX)/XD(IX) = E = (PE(IX)/PD(IX)\*(1-

GAMMA(IX))/GAMMA(IX))\*\*(EPST(IX));

ARMINGTON(IM).. Q(IM) = E = AC(IM)\*(DELTA(IM)\*M(IM)\*\*(1-1/EPSC(IM))

+(1-DELTA(IM))\*XD(IM)\*\*(1-1/EPSC(IM)))\*\*(1/(1-1/EPSC(IM)));

 $COSTMIN(IM).. \qquad \qquad M(IM)/XD(IM) = E = (PD(IM)/PM(IM)*DELTA(IM)/(1-IM)*DELTA(IM)*DELTA(IM)*DELTA(IM)/(1-IM)*DELTA(IM)/(1-IM)*DELTA(IM)/(1-IM)*DELTA(IM)/(1-IM)*DELTA(IM)/(1-IM)*$ 

DELTA(IM)))\*\*(EPSC(IM));

XDSN(INX).. XD(INX) = E = X(INX);

\* XDPUB.. XD("PUB") = E = X("PUB");

QSN(INM).. Q(INM) = E = XD(INM);

 $CAPRENT(IP).. \qquad RK(IP) = E = PVA(IP)*X(IP) - SUM(LC, WA(LC)*WDIST(IP,LC)*L(IP,LC));$ 

#### A.7. Demand Block

NDEQ(I).. ND(I) = E = SUM(J, IO(I,J)\*X(J));

CDEQ(IC,HH)... PC(IC)\*(1+ITAX(IC))\*CD(IC,HH) = E=CLES(IC,HH)\*Y(HH)\*(1-MPS(HH))\*(1-MPS(HH

DTAX(HH));

HHCDEQ(HH)... HHCD(HH) = E = PROD(I\$CLES(I,HH),CD(I,HH)\*\*(CLES(I,HH)));

\*EINV.. INVEST =E= SAVING;

\*EINV.. INVEST =E= SAVING-DK("PUB");

 $DEPREQ(IP).. \qquad DEPRC(IP) = E = DEPR(IP)*KP(IP)*PK(IP);$ 

YEQ(HH).. Y(HH) = E = SUM(LC,

 $LFDIST(HH,LC)*SUM(I,WDIST(I,LC)*WA(LC)*L(I,LC))) + \\ SUM(KC,KFDIST(HH,KC)*SUM(IP,RDIST(KC,IP)*RK(IP))) + \\ \\ SUM(IP,RDIST(KC,IP)*RK(IP)) + \\ \\ SUM(IP,RDIST(KC,IP)*RK(IP) + \\ \\ SUM(IP,RDIST(KC,IP)$ 

ER\*RMIT(HH);

KPROF(IP).. R(IP) = E = (RK(IP) - DEPRC(IP))/KP(IP);

KPROFAV.. RBAR =E= SUM(IP, RK(IP)-DEPRC(IP)) / SUM(IP, KP(IP));

 $HHSAVEQ(HH).. \qquad HHSAV(HH) = E = MPS(HH)*(Y(HH)*(1-DTAX(HH)));$ 

GRUSE.. GOVSAV = E = GR - GDTOT - ER\*DEBTSRV;

\* GOVINV.. DKG =E=DSHR\*(SUM(HH,DIRTAX(HH))+DUTY-PK("PUB")\*DK("PUB"));

\*DSHR\*SUM(HH,DIRTAX(HH))+DUTY-DK("PUB");

TARIFFDEF.. TARIFF = E = SUM(IM, TM(IM)\*M(IM)\*PWM(IM))\*ER;

INDTAXDEF.. INDTAX =E = SUM(IC, ITAX(IC)\*PC(IC)\*SUM(HH, CD(IC, HH)));

PRDTAXDEF.. PRODTAX =E=SUM(IP, PTAX(IP)\*PQ(IP)\*X(IP));

DUTYDEF.. DUTY =E = SUM(IX, TE(IX)\*E(IX)\*ER\*PWE(IX));

DIRTAXDEF(HH).. DIRTAX(HH) = E = DTAX(HH)\*Y(HH);

TOTSAV.. SAVING =E = SUM(HH, HHSAV(HH)) + GOVSAV + ER\*SF;

\* TOTSAV.. SAVING =E= SUM(HH,HHSAV(HH)) + GOVSAV ;

KSHARE(IP).. KI(IP) = E = KP(IP) / SUM(JP, KP(JP));

GREQ.. GR = E = TARIFF + DUTY + INDTAX + SUM(HH, DIRTAX(HH)) + PRODTAX;

GDEQ.. GDTOT =E = (PVA("PUB") + SUM(I, IO(I,"PUB")\*PC(I)))\*X("PUB");

\* GDEQ.. GDTOT =E= X("PUB");

 $PRODINV(IP).. \qquad PK(IP)*DK(IP) = E = KI(IP)*(1 + ADJ*(R(IP) - RBAR))*(SAVING-RBAR) + (ADJ*(RIP) - RBAR) + (ADJ*(RIP) - RDAR) + (ADJ*(RIP) - RDAR) + (ADJ*(RIP) + (ADJ*(RIP) - RD$ 

(PK("PUB")\*DK("pub")));

IEQ(I).. ID(I) = E = SUM(J, IMAT(I,J)\*DK(J));

TOTINV.. INVEST =E = SUM(IP,PC(IP)\*ID(IP));

CAEQ.. SUM(IX,PWE(IX)\*E(IX)) + SF + SUM(HH, RMIT(HH))

- SUM(IM, PWM(IM)\*M(IM)) - DEBTSRV =E=0;

# A.8. Market Clearing

EQUILP(IP).. Q(IP) = E = SUM(HH, CD(IP,HH)) + ND(IP) + ID(IP);

OBJ.. OMEGA =E = SUM(HH, HW(HH)\*LOG(PROD(I\$CLES(I,HH).

CD(I,HH) \*\* (CLES(I,HH)/(1+GLES)) \*X ("PUB") \*\* (GLES/(1+GLES)))));

#### **APPENDIX B: Glossary**

#### B.1. Prices Block

ER **EXCHANGE RATE** PD(I) DOMESTIC PRICES PM(IM) DOMESTIC PRICE OF IMPORTS PE(IX) DOMESTIC PRICE OF EXPORTS PK(I) RATE OF CAPITAL RENT BY SECTOR AVERAGE OUTPUT PRICE BY SECTOR PQ(I) PC(I) PRICE OF CONSUMER COMPOSITE PVA(I) VALUE ADDED PRICE BY SECTOR PWM(I) WORLD MARKET PRICE OF IMPORTS

TM(IM) TARIFF RATES TE(IX) EXPORT DUTIES

CPI CONSUMER PRICE INDEX

#### **B.2.** Production Block

PWE(I)

Q(IP) COMPOSITE SUPPLY

X(I) TOTAL DOMESTIC OUTPUT BY SECTOR

WORLD MARKET PRICE OF EXPORTS

 $egin{array}{ll} XD(I) & DOMESTIC SALES \\ E(I) & EXPORTS BY SECTOR \\ \end{array}$ 

M(I) IMPORTS

#### **B.3.** Factors Block

AD(I) PRODUCTION FUNCTION SHIFT PARAMETER

KG PUBLIC CAPITAL STOCK KP(I) CAPITAL STOCK BY SECTOR

KI(IP) CAPITAL SHARES

WA(LC) AVERAGE WAGE RATE BY SKILL

LS(LC) LABOR SUPPLY BY SKILL

L(I,LC) EMPLOYMENT BY SECTOR AND SKILL

HW(HH) HOUSEHOLD SIZE WEIGHT

RK(I) SECTORAL PROFIT

INFSHR(IP) INFORMAL SHARE OF CAPITAL AND PROFITS

R(IP) PROFIT RATE BY SECTOR

RBAR WEIGHTED AVERAGE PROFIT RATE
ADJ INVESTMENT ADJUSTMENT PARAMETER

# **B.4.** Demand Block

ND(I) INTERMEDIATE USES

CD(I,HH) FINAL DEMAND FOR PRIVATE CONSUMPTION

HHCD(HH) TOTAL HOUSEHOLD CONSUMPTION BY HOUSEHOLD TYPE

ID(I) FINAL DEMAND FOR PRODUCTIVE INVESTMENT

DEPRC(IP) DEPRECIATION EXPENDITURE RMIT(HH) REMITTANCES (US DOLLARS) Y(HH) PRIVATE GROSS INCOME

MPS(HH) MARGINAL PROPENSITY TO SAVE OUT OF YD

DTAX(HH) DIRECT TAX RATE
ITAX(I) INDIRECT TAX RATE
PTAX(I) PRODUCTION TAX RATE
GR GOVERNMENT REVENUE

TARIFF TARIFF REVENUE

INDTAX INDIRECT TAX REVENUE

**PRODTAX** PRODUCTION TAX REVENUE DUTY EXPORT DUTY REVENUE DIRTAX(HH) DIRECT TAX REVENUE

TOTAL GOVERNMENT CONSUMPTION **GDTOT** 

HHSAV(HH) TOTAL HOUSEHOLD SAVINGS **GOVSAV GOVERNMENT SAVINGS** IMAT(I,J) INPUT-OUTPUT COEFFICIENTS

**SAVING** TOTAL SAVINGS FOREIGN SAVINGS SF FOREIGN DEBT SERVICE **DEBTSRV INVEST** TOTAL INVESTMENT

SF FOREIGN SAVINGS (CURRENT ACCOUNT BALANCE)

VOLUME OF INVESTMENT BY DESTINATION DK(I)

**OMEGA OBJECTIVE FUNCTION** 

## B. 5. **Parameters Block**

ALPHL(LC,I) LABOR SHARE PARAMETER IN PRODUCTION PUBLIC CAPITAL SHARE PARAMETER

ALPHG(I)

CAPITAL SHARE PARAMETER IN PRODUCTION ALPHK(I)

WEIGHTS FOR CONSUMER PRICE INDEX WC(I) WAGE PROPORTIONALITY MATRIX WDIST(I,LC)

LFDIST(HH,LC) LABOUR INCOME DISTRIBUTION MATRIX

CET FUNCTION SHIFT PARAMETER AT(I) GAMMA(I) CET FUNCTION SHARE PARAMETER

DELTA(I) ARMINGTON SHARE PARAMETER CONSUMPTION AC(I) ARMINGTON SHIFT PARAMETER CONSUMPTION EPSC(I) ARMINGTON ELASTICITY OF SUBSTITUTION EPST(I) CET ELASTICITY OF TRANSFORMATION

CES CONSUMPTION SHARE PARAMETER CLES(I,HH)

SHARE OF CONS OF GOVERNMENT OUTPUT IN UTILITY **GLES** 

INPUT-OUTPUT COEFFICIENTS IO(I,J)

APPENDIX C: Aggregation Scheme For 11 Industrial Sectors with I-O Table

S. No.	Sectors		Input Output Transactions Table 1993-94
	1 Agriculture	I	1-22
	2 Agro-processing	F	33-40
	3 Agro-processing	I	33-40
	4 Readymade Garments	F	48
	Readymade Garments I		40
	6 Other Manufacturing Goods	F	23-32, 41-47, 49-75, 76-98
	7 Other Manufacturing Goods	I	25-32, 41-47, 49-73, 70-90
	8 Construction	I	99
	9 Other Services	F	100-114
	10 Other Services	I	100-114
	11 Government Services	F	115

APPENDIX D Aggregation Scheme For 11 Industrial Sectors with NIC Codes

S. No.	Sectors		NIC 5-digit Codes
1	Agriculture	I	01111-05005
2	Agro-processing	F	15111-16009
3	Agro-processing	I	13111-10009
4	Readymade Garments	F	17301-17309, 18101
4	Readymade Garments	I	17301-17309, 10101
(	Other Manufacturing Goods	F	10101-14299, 17111-17299, 18102-18209,
	Other Manufacturing Goods	I	19111-37200, 50200, 50404, 52601-52609
8	Construction	I	45101-45500
,	Other Services	F	40101-41000, 50101-50103, 50300-50403, 50500, 51101-52599, 55101-74999, 80101-
10	Other Services	I	99000
11	Government Services	F	75111-75302

Source: Prepared and worked upon by the authors

**APPENDIX E:** Average Per Day Wage Rate For Labourers By Gender (Rs.)

All workers Casual Worker		Regular Wage / Salary		Hired Home based				
				Ear	Earner			
		Male	Female	Male	Female	Male	Female	
Agriculture informal	I	32.1	20.7	51.4	25.0	-	-	
Agroprocessing	F	77.3	49.7	92.4	54.0	-	-	
Agroprocessing	I	36.3	21.8	59.9	39.3	18.1	10.9	
Other Manufacturing	F	68.3	42.6	92.4	52.3	-	-	
Other Manufacturing	I	31.7	17.0	62.1	29.3	15.8	8.5	
Readymade Garments	F	49.7	38.9	66.2	47.3	-	-	
Readymade Garments	I	46.4	37.9	58.6	45.5	23.2	18.9	
Construction Informal	I	54.8	35.0	72.9	48.9	-	-	
Other Services	F	132.5	76.2	155.6	120.4	-	-	
Other Services	I	28.3	12.5	72.9	40.1	14.1	6.3	
Public Admn	F	48.2	29.1	173.2	155.4	-	-	

Source: "Employment and Unemployment in India, 1999-00", Fifty-Fifth Round, NSSO, New Delhi.

## **APPENDIX F: Types Of Households By Formal And Informal Categories**

(percent)

	FORMAL	INFORMAL	ALL INDIA
RURAL			
Poor	16.11	27.01	26.81
Non Poor	83.89	72.99	73.19
Total	100.00	100.00	100.00
URBAN			
Poor	10.93	29.23	20.66
Non Poor	89.07	70.77	79.34
Total	100.00	100.00	100.00
ALL			
HOUSEHOLDS			
Poor	11.20	27.64	24.22
Non Poor	88.80	72.36	75.78
Total	100.00	100.00	100.00

Source: "Employment and Unemployment in India, 1999-00", Fifty-Fifth Round, NSSO, New Delhi.

## **APPENDIX G: Classification Of NIC Codes**

S.No	SECTORS	NIC CODES	TYPE - RURAL FORMAL
1	AGRICULTURE	01132	Growing of tea or mate leaves including the activities of tea factory associated with tea plantation.
		02001	Growing of standing timber:planting, replanting, transplanting, thinning and conserving of forests and timber tracts. Operation of tree nurseries.
			Logging: logging camps and loggers primarily engaged in felling timber and producing wood in the rough such as pitprops, split poles, pickets, hewn railway ties or fuel wood.
			Forestry service activities: timber cruising, timber evaluation, fire fighting and forest management including afforestation and reforestation.
		02006	Logging service activities: transport of logs in association with logging chiefly within the forest.
2	AGROPROCESSING		Processing and canning of meat.
		15117	Rendering and refining of lard and other edible animal fats.
		15118	Production of flours and meals of meat and meat offals.
		15122	Artificial dehydration of fish and sea food.
		15123	Radiation prevservation of fish and similar food.
		15124	Processing and canning of fish.
		15126	Processing and canning of froglegs
		15132	Artificial dehydration of fruits and vegetables
		15133	Radiation preservation of fruits and vegetables
		15135	Manufacture of sauces, jams, jellies and marmalades.
		15137	Canning of fruit and vegetables.
		15139	Fruit and vegetables preservation n.e.c. (including preservation by freezing).
		15146	Manufacture of cakes and meals incl. residual products, e.g Oleostearin, Palmstearin
		15147	Manufacture of non-defatted flour or meals of oilseeds, oilnuts or kernals.
		15201	Manufacture of milk powder, icecream powder and condensed milk except baby milk foods.
		15202	Manufacture of baby milk foods.
			$\label{lem:manufacture} Manufacture of pasteurised milk whether or not in bottles/polythene packs etc. (plain or flavoured)$
			Manufacture of prepared, blended flour and dough for bread, cake, etc.
			Manufacture and refining of sugar (vacuum pan sugar factories).
			Manufacture of cocoa products.
			Manufacture of sugar confectionery (except sweetmeats).
			Manufacture of chewing gum.
			Preserving in sugar of fruits, nuts, fruit peals and other part of plants.
			Manufacture of macaroni, noodles, conscious and similar farinaceous products.
			Processing and blending of tea including manufacture of instant tea.
			Coffee curing, roasting, grinding and blending etc. including manufacture of instant coffee, chicory and other coffee substitutes, essence of concentrates of coffee Processing of edible nuts.
			Manufacture of malted foods including food for infants and invalids.
			Manufacture of vitaminised high protein flour, frying of dals and other cereals incl,roasting of nuts.  Other semi processed, processed or instant foods except farinaceous products and malted
		15499	foods and manufacturing activities like manufacturing of egg powder, sambar powder etc
		15520	Manufacture of wines.
			Manufacture of malt liquors and malt.
			Manufacture of soft drinks; production of mineral waters.
		16003	Manufacture of cigarette and cigarette tobacco.
		16004	Manufacture of cigars and cheroots.
		16005	Manufacture of snuff.
3	READYMADE GARMENTS	17303	Manufacture of knitted and crocheted synthetic textile products.

S.No	SECTORS	NIC CODES	TYPE - RURAL FORMAL
4	OTHER MANUFACTURING GOODS	10	Mining of Coal and Lignite; Extraction of Peat
		11	Extraction of Crude Petroleum and Natural Gas; Service Activities incidental to oil and gas extraction excluding surveying.
		120	Mining of Uranium and Thorium ores(e.g. pitch blende),including concentrating of such ores.
		131	Mining of iron ores .
		132	Mining of non-ferrous metal ores, except Uranium and Thorium ores.
		141	Quarrying of stones,sand and clay.
		142	Mining and Quarrying, n.e.c.
		17293	Manufacture of linoleum and similar products.
		17294	Manufacture of gas mantles.
		17295	Manufacture of made up canvas goods such as tent and sails etc.
			Manufacture of wadding of textile materials & articles of wadding such as sanitary towel
		17297	Manufacture of metallised yarn or gimped yarn; rubber thread or cord covered with textile material; textile yarn or strip, impregnated, covered or sheathed with rubber or plastic
		17298	Manufacture of Waterproof textile excluding Tarpaulin
		17299	Manufacture of other Textiles / Textile products
		18102	Manufacture of Rain coats of waterproof textile fabric or plastic sheetings
		18103	Manufacture of hats and caps from waterproofs.
		18104	Manufacture of wearing apparel of leather and substitute of leather.
		18109	Manufacture of wearing apparel n.e.c.
		18202	Manufacture of wearing apparels of Fur and Pelts
		19202	Manufacture of footwear made primarily of vulcalized or moulded rubber and plastic. This class includes manufacture of rubber footwear, plastic and PVC, canvas-cum-rubber/plastic footwear etc.including sports footwear.
		20102	Manufacture of unassembled wood flooring, including parquet flooring.
		20103	Manufacture of railway sleeper.
		20211	Manufacture of plywood and veneer sheets.
		20292	Manufacture of cork and cork products.
		210	Manufacture of Paper and paper products
		221	Publishing.
		222	Printing and service activities related to printing.
		223	Reproduction of recorded media.
		23	Manufacture of Coke, Refined Petroleum Products and Nuclear Fuel
		241	Manufacture of Basic Chemicals
		2412	Manufacture of Fertilizers and Nitrogen compounds.
		2413	Manufacture of Plastics in primary forms and of synthetic rubber.
		242	Manufacture of Other Chemical products.
		243	Manufacture of manmade fibre.
		251	Manufacture of Rubber products.
		252	Manufacture of plastic products.
		261	Manufacture of Glass and glass products.
		26913	Manufacture of Ceramic tableware & other articles of a kind commonly used for domestic purposes,including ceramic statuettes and other ornamental articles.
			Manufacture of Ceramic sanitary wares; sinks, baths, water closet pans, flushing cistern etc.
			Manufacture of Ceramic insulators & insulating fittings for electrical machines & equipments .
			Manufacture of Ceramic ware for laboratory chemicals or other technical use.
		26919	Manufacture of other non-structural Ceramic wares n.e.c.

S.No	SECTORS	NIC CODES	TYPE - RURAL FORMAL
		2692	Manufacture of refractory Ceramic products.
		2693	Manufacture of structural non refractory Clay & Ceramic products.
		2694	Manufacture of Cement, Lime & plaster.
		2695	Manufacture of articles of concrete, cement & plaster.
		2696	Cutting Shaping and Finishing of Stones.
		2699	Manufacture of other non-metallic mineral products.
		271	Manufacture of Basic Iron and Steel .
		272	Manufacture of Basic Precious and non-ferrous metals .
		273	Casting of metals.
		2812	Manufacture of tanks,reservoirs and containers of met al.
		2813	Manufacture of steam generators, except central heating hot water boilers.
			Forging, pressing, stamping and roll-forming of metal; powder metallurgy.
			Treatment and coating of metals; general mechanical engineering on a fee or contract
			basis.
			Manufacture of other fabricated metal products.
		28112	Manufacture of fabricated structural products of iron and steel:bridge and bridgeparts, towers, masts, columns, girders, trusses, arches, sluice gates, piers and jetties. Erection of structures from self manufactured part is included.
		28113	Manufacture of fabricated structural products of metal other than of iron or steel
		291	Manufacture of General purpose Machinery.
		292	Manufacture of Special purpose Machinery.
		29302	Manufacture of gas stoves, cooking ranges and other similar appliances
		29303	Manufacture of electric fans.
		29304	Manufacture of vacuum cleaner and other electro-mechanical domestic appliances with self contained electric motors, such as food processor and juice extractors etc.
		29305	Manufacture of electro-thermic domestic appliances such as immersion water heater, hot plates, geysers; electro-thermic hair dressing appliances; electric irons and electric/electronic cooking appliances.
		29306	Manufacture of domestic refrigerators/freezer.
		29307	Manufacturing of items based on solar energy like solar cooker, air/water heating system etc. except cell
		29308	Manufacture of other electric domestic appliances n.e.c.: dishwashers, household type laundry equipment, electric razors including parts and accessories for electrical domestic appliances.
		29309	Manufacture of other (non-electric) domestic appliances n.e.c: parts and accessories for
		311	electrical and non-electric domestic appliances.  Manufacture of Electric motors, Generators and Transformers.
			Manufacture of Electricity distribution and control panel apparatus.
			Manufacture of insulated wire and cables.
			Manufacture of Accumulators,primary cells and primary batteries.
			Manufacture of Electric Lamps and lighting Equipment.
	+		Manufacture of Other Electrical equipments n.e.c.
			Manufacture of Electronic valves and tubes and other electronic components.
			Manufacture of Television and Radio Transmitters & apparatus for line telephony & line telegraphy.
		323	Manufacture of Television and Radio receivers, sound or video recording or reproducing apparatus & associated goods.
		331	Manufacture of medical appliances and instruments and appliances for measuring, checking, testing, navigating and other purposes except optical instruments.
		332	Manufacture of optical instruments and photographic equipments.
		333	Manufacture of watches and clocks.
		34101	Manufacture of Heavy motor vehicles.:buses and vans principally designed for transport of persons.
	1	1	<u> </u>

S.No	SECTORS	NIC CODES	TYPE - RURAL FORMAL
		34102	Manufacture of motor vehicles for the transport of goods: ordinary lorries, trucks and goods vans, lorries with automatic discharging devices, tankers drop frame lorries, refuse collectors, etc.; special purpose motor lorries and trucks e.g. motor breakdown lorries, armoured cars, street sweepers, mobile medical/dental clinics, travelling libraries etc., also included over the road tractors for semi-trailers.
		34103	Manufacture of motor cars.
		34104	Manufacture of Jeep & Station wagon.
		34105	Manufacture of special purpose motor cars such as racing cars, golf cars etc.
		34106	Manufacture of chassis fitted with engines for the motor vehicles included in this class
		34107	Manufacture of compression ignition or spark ignition reciprocating or rotary internal combustion engines used to power motor vehicles.
			Manufacture of bodies (coach work) for motor vehicles; Manufacture of trailers and semi trailers.
		343	Manufacture of of part and accesssories for motor vehicles and their engines.
		351	Building and repair of Ships and Boats.
		352	Manufacture of railway and tramway locomotives and rolling stocks.
			Manufacture of Aircraft and Space crafts.
			·
			Manufacture of transport equipment n.e.c  Manufacture of furniture and fixtures primarily of metal.
			Manufacture of furniture and fixtures, primarily of plastic.
			***
			Manufacture of coir foam mattresses and pillows etc.
			Manufacture of other furniture and fixtures n.e.c.
			Manufacture of musical instruments.
			Manufacture of sport goods.
		371	Recycling of metal waste and scrap
		372	Recycling of non-metal waste and scrap
		36912	Diamond cutting and polishing and other gem cutting and polishing.
		36913	Minting of currency coins.
		36991	Manufacture of stationery articles n.e.c.: pen pencils of all kinds, including pencil leads and pen refills, date, sealing or numbering stamps; prepared typewriter ribbons and inked pads and other stationery articles n.e.c.
		36992	Manufacture of umbrellas, sun umbrella, walking sticks, seat sticks, whips, riding crops, buttons, press fasteners, snap fasteners, press studs and slide fastener.
		36993	Manufacture of articles of personal use: smoking pipes, combs, hair slides and similar articles, cigarette lighters; vacuum flasks and other vacuum vessels for personal and household use; articles of human hair and other articles of personal use n.e.c.
		36994	Manufacture of linoleum and hard surface floor coverings.
		36996	Manufacture of imitation jewelry.
		36999	Manufacture of other miscellaneous products n.e.c.: Round about, swing, shooting galleries and other fairground amusements; tailors' dummies and other articles n.e.c.
5	CONSTRUCTION	451	Site Preparation.
		452	Building of complete constructions or parts thereof; civil engineering.
			Installation of heating and air conditioning systems, antennas, elevators & escalators;
			insulation work (water, heat, sound); and sound proofing system.
		45309	Other building installation n.e.c.(includes industrial process piping work,installation of illumination & signalling systems for roads, railways, airports, harboursetc., and
			installation of certain plants such as electric power and transformer plants, telecommunication plants and radar plants etc.
6	OTHER SERVICES	401	Production, collection and distribution of Electricity.
			Manufacture of Gas, distribution of Gaseous Fuels through mains.
			Steam & Hot water supply.
			Collection, purification and distribution of Water.
			Transport via Railways (includes passenger and freights by inter urban railways,also related activities such as shunting and switching).
		60210	Other scheduled passenger land transport (includes activities providing regular urban, sub-urban, or inter urban transport of passengers on scheduled routes other than inter urban railway transport. They may be carried out with motor bus, tramway, trolley
			bus, underground and elevated railways. Also included are the operations of school buses, town -to-airport/station lines, sight seeing buses, aerial cableways etc.

S.No	SECTORS	NIC CODES	TYPE - RURAL FORMAL
			Freight Transport by Motor vehicles.
		603	Transport via Pipelines.(includes transport of gases, liquids, slurry and other commodities via pipelines. Included are incidental activities like operation of pump stations & maintenance of pipeline).
		611	Sea & Coastal Water Transport.
			Inland Water Transport.
		621	Scheduled Air Transport
		622	Non-scheduled Air Transport.
		6301	Cargo Handling.
			Warehousing of agricultural products with refrigeration(i.e. cold storage).
		63023	Storage and warehousing n.e.c.(includes general merchandise warehouses & warehousing of furniture, automobiles, gas & oil, chemicals, textiles. Also included is storage of goods in foreign trade zones.)
		6303	Other Supporting Transport Activities.
		6304	Activities of Travel Agencies & Tour operators; tourist assistance activities n.e.c.
		6309	Activities of other Transport Agencies(includes forwarding of freight, organisation or arrangement of transport on the behalf of shipper or consignee, receiving and acceptance of freight, transportation document preparation, consolidation and break bulk of freight, freight brokerage, custom house brokerage, bill auditing and freight rate information, brokerage for ship and aircraft space, packing and cratting and unpacking and decrating, weighing and sampling of freight etc.
		501	Sale of motor vehicles(includes wholesale and retail sale of new and used passenger motor vehicles and lorries,trailers and semi-trailers).
		50401	Sale of new Motor cycles, Scooters and Threewheelers.
		50402	Activities of commission agents involved in the sale of Motor cycles, Scooters and Threewheelers.
		50403	Activities of the Dealers involved in used Motor cycles, Scooters and Threewheelers.
		50500	Retail Sale of Automotive Fuel (includes the activity of petrol filling stations).
		51312	Wholesale of Footwear.
		5139	Wholesale of Other Household Goods.
		5141	Wholesale of Solid ,Liquid & Gaseous Fuels and related products.
		5142	Wholesale of Metal and Metal ores.
		5143	Wholesale of Construction material, Hardware, Plumbing and Heating equipments and supplies.
		51491	Wholesale of cotton & jute fibres including procurement agencies.
		51492	Wholesale of Raw wool
		51493	Wholesale of Raw silk.
		51495	Wholesale of Plastic materails in primary forms.
		51496	Wholesale of Industrial Chemicals.
		51497	Wholesale of Fertilizers and Pesticide.
		51498	Wholesale of waste and scrap & materials for recycling.
		515	Wholesale of Machinery, equipments and supplies.
		519	Other Wholesale (includes specialized Wholesale not covered in any one of the previous categories and Wholesale in a variety of goods without specialization).
		52311	Retail sale of Pharmaceuticals, Medical and Orthopedic goods.
		52334	Retail sale of TV/ Radio, refrigerators, washing machines and other electric/electronic household goods
		52335	Retail sale of electric goods & supplies.(includes Retail sale of insulated wires/cables,articles for lighting & other miscellaneous electric goods not elsewhere classified).
			Retail sale of household appliances, articles and equipments (includes Retail sale of sewing and knitting machine; net curtains & diverse household articles of textile materials; wood, cork goods and wickerwork goods and other household utilities and durables not elsewhere classified).
			Retail sale of Hardware, Paints and Glass.
			Retail sale in watches and clocks.
			Retail sale of Computers and non-customized softwares.
			Retail sale of Jewellery.
			Retail sale of Photographic,optical & other stores and supplies etc.
		52395	Retail sale of Firewood, coal and kerosene oil & cooking gases.
		52396	Retail sale of books,magazines & stationery including distribution of news paper.

S.No	SECTORS	NIC CODES	TYPE - RURAL FORMAL
			Retail sale via mail orders(includes the activities of retail selling through teleshopping).
		55103	Provision of short term lodging/camping facility to members of a particular organization(Includes govt. guest/rest/circuit houses, company guest houses and similar establishments).
		55104	Operation of Dormitories and/or residence halls/ hostel at educational institutions.
		55201	Restaurants with Bars.
		55203	Canteens.
		55205	Operation of Dining cars in the railways and other transport facilities when carried on by separate units.
		641	Post and Courier activities.
		642	Telecommunication
			Monetary Intermediation ( This group Includes the obtaining of funds in the form of deposits.)
		659	Other Financial Intermediation ( This group Includes Financial Intermediation other than that concucted by Monetary Institutions).
		660	Insurance and Pension Funding, except compulsory social security.
			Activities auxillary to Financial Intermediation, except Insurance and Pension Funding. This group Includes activities involved in or closely related to Financial Intermediation other than Insurance and Pension Funding, but not themselves involving Financial Intermediation).
			Activities auxillary to insurance and Pension Funding. (This group Includes activities involved in or closely related to Management of Insurance and Pension Funding other than Financial Intermediation and Includes activities of insurance agents, average & loss adjusters, actuaries and salvage administrator.)
		701	Real estate activities with own or leased property. (This group Includes buying, selling, renting, and operating with own or leased real estate such as apartment building & dwelling, non residential buildings, development & sale of land, cemetry lots, operating of apartment hotels and residential mobile home sites).
		702	Real estate acivities on a fee or contract basis.
		71130	Renting of Air Transport equipment
			Renting of Construction and civil engineering machinery and equipment
		71230	Renting of office machinery and equipments.(Including computers).
		71290	Renting of other machinery and equipments.
			Computer and related activities
			Research and Development
			Primary Education.
			Secondary Education.
			Higher Education.
			Adult education.  Education by correspondence through Radio and television broadcasting and other distance learning media.
		80904	Activities of the Individuals providing tutions.
			Hospital activities
			<u> </u>
		85194	Activities of nurses,physiotherapists or other para-medical practitioners.
		85195	Activities of Independent diagnostic/pathological laboratories.
		85196	Activities of Independent Blood bank.
		85199	Other Human Health Activities n.e.c.( ( Including Independent Ambulance activities ).
		852	Veterinary activities.(Including Clinico pathological and other diagonistic activities pertaining to birds and animals).
		853	Social work activities.
		900	Sewage and refuse disposal,sanitation and similar activities.
		911	Activities of Business, employers and professional organisations
		912	Activities of Trade Unions (includes activities of associations whose members are mainly employees including govt. employees, interested chiefly in representation of their views concerning their work situations).
		919	1 0
			Motion Picture, radio, TV and other entertainment activities.
			News Agency activities.
		923	Library, Archives, Museums and other cultural activities.

S.No	SECTORS	NIC CODES	TYPE - RURAL FORMAL
		924	Sporting and other recreational activities.
		930	Other Service activities.
		950	Private households with employed persons.(Includes the activities of Private households employing all kind of domestic personnel such as mails, cooks, gardeners, gatekeepers, secretaries, governess, baby sitters etc.)
		990	Extra Territorial organizations and bodies(Includes the activities of international organizations such as UN and its agencies, regional bodies e.g. IMF,World bank, European Commission, OPEC etc.)
7	PUBLIC ADMN AND DEFENCE	751	Adminitration of State and Economic and Social policy of the community.
		752	Provision of services tp the community as a whole.
		753	Compulsory Social Security Activities (includes funding & admin. Of Govt. provided social security programmes e.g. old age pension schemes, unemployment insurance scheme etc.)

S.No SECTORS	NIC CODES	TYPE - RURAL INFORMAL
1 AGRICULTURE	0111	Growing of cereals and oher crops n.e.c.
	0112	Growing of vegetables, horticultural specialities and nursery products.
		Growing of coffee and cocoa beans.
	01133	Growing of edible nuts including coconuts.
	01134	Growing of fruit: citrus, tropical pome or stone fruit; small fruit such as berries; other fruit such as avocados, grapes, dates or bread fruit etc.
	01135	Growing of spice crops including :spice leaves; spice seeds;spice flower, spice fruit or other spices. Also includes growing of betel leave.
	012	Farming of animals.
	013	Growing of crops combined with farming of animals(mixed farming).
	014	Agricultural and animal husbandary services activities, except veterinary activities.
	015	Hunting, trapping and game propagation including related service activities.
	02003	Gathering of tendu leaves.
	02004	Gathering of other wild growing forest materials including fuel/firewood.
	050	Fishing, operation of fish hatcheries and fish farms: services activities incidental to fishing.
2 AGROPROCESSING	15111	Mutton-slaughtering, preparation.
	15112	Beef-slaughtering, preparation.
	15113	Pork-slaughtering, preparation.
	15114	Poultry and other-slaughtering, preparation.
	15115	Preservation of meat except by canning.
	15121	Sun-drying of fish.
	15125	Manufacturing of fish meals.
	15127	Processing and preserving of of fish crustacean and similar foods.
		Sundrying of fruits and vegetables.
		Manufacturing of fruit/vegetable juices and their concentrates, squashes and powder.
		Manufacture of pickles, chutneys, murabbas etc.
		Manufacture of potato flour and meals and prepared meals of vegetables.
		Manufacture of hydrogenated oils and vanaspati ghee etc.
		Manufacture of vegetables and fats
		Manufacure of vegetables oils and fats through solvent extraction process
		Manufacture of animal oils and fats
		Manufacture of fish oil.
		Manufacture of butter, cream, ghee, cheese and khoya etc
		Manufacture of ice-cream and kulfi etc.
		Manufacture of other dairy products
		Flour milling
		Rice milling
		Dal milling.
		Processing and grinding of grain
	15315	Vegetable Milling, flour or meal of dried leguminous vegetables of roots or tubers or of edible nuts
	15316	Manufacture of breakfast foods obtained by roasting or swelling cereal grains.
		Other grain milling and processing activities.
		Manufacture of starch.
		Manufacture of sago and sago products.
		Manufacture of glucose and glucose syrup, maltose.
		Manufacture of gluten
		Manufacture of tapioca substitutes prepared from starch.
		Manufacture of corn oil.
		Manufacture of prepared animal feeds.
		Manufacture of bakery products
	1341	irianulacture of bakery products

S.No	SECTORS	NIC CODES	TYPE - RURAL INFORMAL	
		15422	Manufacture of gur from sugar cane.	
		15423	Manufacture of gur from other than sugar cane.	
		15424	Manufacture of 'khandasari 'sugar from sugar cane.	
		15425	Manufacture of 'khandsari 'sugar other than from sugar cane.	
		15426	Manufacture of 'boora' and candy from sugar cane.	
		15427	Manufacture of 'boora' and candy other than from sugar cane.	
		15428	Manufacture of molasses.	
		15429	Manufacture of other indigenous sugar cane/sugar beet/palm juice products.	
		15433	Manufacture of sweetmeats.	
		15495	Grinding and processing of spices.	
		15496	Manufacture of papads appalam and similar food products.	
		15511	Distilling, rectifying and blending of spirits;ethyl alcohol production from fermented material.	
		15512	Manufacture of country liquor.	
			Tobacco stemming, redrying etc of tobacco leaf.	
		16002	Manufacture of bidi	
		16006	Manufacture of zarda	
		16007	Manufacture of catechu(katha) and chewing lime.	
3	READYMADE		Manufacture of knitted and crocheted cotton textile products.	
	GARMENTS	15000		
			Manufacture of knitted and crocheted woollen textile products.	
			Manufacture of knitted and crocheted textile products n.e.c.	
		18101	Manufacture of all type of textile garments and clothing accessories.	
4	OTHER MANUFACTURING GOODS	1711	Preparation and spinning of textile fiber including weaving of textiles	
		1712	Finishing of Textiles	
		1722	Manufacture of Carpets and Rugs	
		1721	Manufacture of made up Textile articles, except apparel.	
		1723	Manufacture of cordage, rope, twine & netting.	
			Embroidery work & making of laces and fringes.	
			Zari work and making of other ornamental trimmings.	
		18201	Scraping, curying, tanning, bleaching and dyeing of fur and other pelts for the trade.	
		18203	Manufacture of fur and skin rugs and other similar articles.	
			Embroidering and embossing of leather articles.	
			Stuffing of animals' and birds' hides.	
			Manufacture of other leather and fur products n.e.c.	
			Tanning and dressing of leather, manufacture of luggage hand bags,saddlery and harness.	
		19201	Manufacture of footwear (excluding repair) except of vulcalised or moulded rubber or plastic. This class includes manufacture of leather shoes, leather sandals and chappals, leather-cum-rubber/plastic cloth sandals and chappals made by or by any process.	
		20101	Sawing and planing of wood(other than plywood)	
			Manufacture of flush doors and other boards or panels	
		20213	Manufacture of particle board, fiber board, including densified wood.	
		20219	Manufacture of other plywood products.	
			Manufacture of builders' carpentry and joinery.	
		2023	Manufacturing of wooden containers.	
		20201	Manufacture of wooden industrial goods.	
		20291	irianatactare of wooden muustrat goods.	

o SECTORS		TYPE - RURAL INFORMAL
	20293	Manufacture of bamboo and cane article and fixture of bamboo, cane, reed and
	20294	grassproducts Manufacture of broomsticks
	20295	Manufacture of wooden agricultural implements.
	20296	Manufacture from cane and bamboo of shopping bags, ornament boxes, costume articles, trays, table lamps, fancy baskets, table mats, tumbler and vessel holders and other household utilities.
	20297	Manufacture of articles made of palm leaf,screw-pine leaf and khajoor leaf; articles o vegetable fibre etc.
	20298	Manufacture of products of pith and shalapith.
	20299	Manufacture of other wood products.
	26911	Manufacture of articles of Porcelain or china, earthenware, imitation porcelain or common pottery, including earthen statues.
	26912	Manufacture of statues and ornamental articles of stone and other stoneware, includi writing slates of slatestone.
		Manufacture of doors, windows and their frames, shutters and rolling shutters; fire escapes, gate and similar article of iron or seel used on building.
	2893	Manufacture of cutlery, hand tools and general hard ware.
	29301	Manufacture of oil stoves, hurricane lartern and oil pressure lamps.
	36101	Manufacture of furtniture and fixtures made of wood, cane and reed.
	36911	Manufacture of gold jewellery: gold, silver and other precious metal jewellery: preci and semi precious stone jewellery; gold and silver articles including presentation coi but not the coin used as a legal tender.
	3694	Manufacture of games and toys
	36995	Making of candles, tapers and similar products of wax.
	36997	Manufacture of brooms and brushes; hand operated mecahnical floor sw eepers, mops feather dusters; paint pads and other rollers; squeezes and other brushes, brooms, mo etc.
	36998	Manufacture of miscellaneous decorative articles n.e.c.:articles made from ivory, bo and horns; artificial flowers; and other novelties and presentation articles n.e.c.
	50200	Maintenance and repair of motor vehicles.
	50404	Maintenance and repair of motor cycles, scootors and three wheelers.
	526	Repair of personal and household goods.
5 CONSTRUCTION	45301	Plumbing and Drainage.
		Electrical installation work for constructions.
		Glazing, plastering, painting and decorating, floor sanding and other similar finishing works.
	45403	Finish Carpentry such as fixing of doors, windows, panels etc.and other building finishing works n.e.c.
6 OTHER SERVICES	50300	Sale of motor vehicle parts & accessories(includes wholesale and reatail sale of all k of parts, components & accessories for motor vehicles, when not combined with sale of such vehicles themselves.)
	511	Wholesale on a fee or contract basis (includes commission agents, commodity broke auctioneers and all other wholesalers who trade on behalf and account of others.
	5121	Wholesale of agricultural raw materials and live animals
	5122	Wholesale of food, beverages and tobacco
	51311	Wholesale of Textile, household linen, articles of Clothing, floor coverings and tape
	51494	Wholesale of Other Textile fibres n.e.c.
	52110	Retail sale in non-specialized stores with food, beverages or tobacco predominating (includes mainly the so called general stores which have, apart from their main sales groceries, several other lines of merchandise such as cosmetics, clothing etc).

S.No	SECTORS	NIC CODES	TYPE - RURAL INFORMAL
		52190	Other Retail sale in non-specialized stores (includes mainly the so called departmental
			stores carrying a general line of merchandise, including wearing apparels, appliances,
		522	cosmetics, jewellery, toys, sporting goods etc.)
			Retail sale of food, beverages & tobacco in specialized stores.
			Retail sale of perfumery articles, cosmetics and soaps.
		52324	Retail sale of leather goods and travel accessories.
		52331	Retail sale of crockery, glassware and plastic ware.
		52332	Retail sale of gas stoves, cooking/kitchen appliances and utensils.
		52333	Retail sale of Furniture.
		52397	Retail sale of agricultural inputs (seeds, fertilizers, pesticides) and tools.
		52398	Retail sale of sport goods,game and toys.
		52399	Other retail sale in specialised stores n.e.c.
		52400	Retail sale of second hand goods in stores(includes the pawn shop).
		52599	Other non store retail sale (includes Retail sale of any kind of product in any way such as by sales persons who go from house to house or by vending machines or on a fee or on contract basis).
		52520	Retail sale via stalls and markets.
		52591	Retail sale of lottery tickets.
		526	Repair of Personal & Household goods (includes Repair of Personal & Household goods when not done in combination with manufacture or wholesale or retail sale of these goods).
		55101	Hotels and Motels.
		55102	Inns,Dharmshalas and other places providing short term lodging/camping facility open to general public,Including those run by religious and charitable organization.(Includes short term accomodation in Houseboat).
		55109	Provision of short-stay accomodation n.e.c.
		55202	Restaurants without Bars.
		55209	Cafes, Lunch counters, Refreshment stands and other establishments selling food for immediate consumption on the premi ses.
		55204	Activities of caterers.
		60221	Other non-scheduled passenger land transport by motor vehicles.
		60222	Other non-scheduled passenger land transport,other than by motor vehicles (i.e. by bullock carts, tongas& cycle rickshaws etc.)
		60232	Freight transport other than by motor vehicles (i.e. by man or animal drawn vehicle such as bullock carts, tongas& cycle rickshaws etc.)
		63021	Warehousing of agricultural products without refrigeration.
		71110	Renting of Land Transport equipment [Renting without operators of all kinds of Land Transport equipment e.g. railroad vehicles cars, trucks, trailers and semi trailers, motorcycles, scooters including that of containers, caravans and campers]
		71120	Renting of Water Transport equipment
		71210	Renting of Agricultural machinery and equipments.
		713	Renting of personal and household goods n.e.c. (Includes Renting of all kinds of personal and household goods whether the customers are household or industries).
		741	Legal, accounting, book-keeping and auditing activities; tax consultancy market
			reasearch and public opinion polling; business and management consultancy
			Architectural and engineering and other related technical activities.
			Advertising
		749	Business Activities n.e.c.
		80903	Coaching Centres.
		85191	Activities of Ayurveda Practitioners.
		85192	Activities of Unani Practitioners.
		85193	Activities of Homeopaths.
7	PUBLIC ADMINISTRATION AND DEFENCE		·
	TATA DELETICE		

S.No SECTORS	NIC CODES	TYPE - URBAN FORMAL
1 AGRICULTURE		Growing of tea or mate leaves including the activities of tea factory associated with tea plantation.
		Rearing of sheep; production of shorn wool.
		Rearing of horses,camels,mules and other pack animals.
	0122	Other animal farming; production of animal products.
	0130	Growing of crops combined with farming of animals(mixed farming).
	0140	Agricultural and animal husbandary services activities, except veterinary activities.
	02001	Growing of standing timber:planting, replanting, transplanting, thinning and conserving of forests and timber tracts. Operation of tree nurseries.
	02002	Logging: logging camps and loggers primarily engaged in felling timber and producing wood in the rough such as pitprops, split poles, pickets, hewn railway ties or fuel wood.
	02003	Gathering of tendu leaves.
	02005	Forestry service activities: timber cruising, timber evaluation, fire fighting and forest management including afforestation and reforestation.
		Logging service activities: transport of logs in association with logging chiefly within the forest.
		Fishing on commercial basis in ocean,sea and coastal areas.
	05002	Fishing on commercial basis in inland waters.
		Fish farming, breading and rearing including operations of hatcheries for fin and shell fish, molluscs, aquatic plants and cultivation of oysters for pearls or food.
2 AGROPROCESSING		Preservation of meat except by canning.
	15116	Processing and canning of meat.
	15117	Rendering and refining of lard and other edible animal fats.
	15118	Production of flours and meals of meat and meat offals.
	15122	Artificial dehydration of fish and sea food.
	15123	Radiation prevservation of fish and similar food.
	15124	Processing and canning of fish.
	15126	Processing and canning of froglegs
	15127	Processing and preserving of of fish crustacean and similar foods.
	15132	Artificial dehydration of fruits and vegetables
		Radiation preservation of fruits and vegetables
		Manufacturing of fruit/vegetable juices and their concentrates, squashes and powder.
	15135	Manufacture of sauces, jams, jellies and marmalades.
	15137	Canning of fruit and vegetables.
	15139	Fruit and vegetables preservation n.e.c. (including preservation by freezing).
	1514	Manufacture of vegetable and animal oils and fats
		Manufacture of milk powder, icecream powder and condensed milk except baby milk foods.
	15202	Manufacture of baby milk foods.
	15204	Manufacture of pasteurised milk whether or not in bottles/polythene packs etc.(plain or flavoured)
	15205	Manufacture of ice-cream and kulfi etc.
	15209	Manufacture of other dairy products
	15316	Manufacture of breakfast foods obtained by roasting or swelling cereal grains.
	15317	Manufacture of prepared, blended flour and dough for bread, cake, etc.
	1532	Manufacture of starch and starch products
	1533	Manufacture of prepared animal feeds.
	1541	Manufacture of bakery products
		Manufacture and refining of sugar (vacuum pan sugar factories).
		Manufacture of cocoa, chocolate and sugar confectionary.
		Manufacture of macaroni, noodles, conscious and similar farinaceous products.
		Manufacture of other food products.
		Distilling, rectifying and blending of spirits;ethyl alcohol production from fermented material.
	1552	Manufacture of wines.

S.No	SECTORS	NIC CODES	TYPE - URBAN FORMAL	
		1553	Manufacture of malt liquors and malt.	
		1554	Manufacture of soft drinks; production of mineral waters.	
		1600	Manufacture of tobacco products.	
3	READYMADE GARMENTS		Manufacture of knitted and crocheted cotton textile products.	
			Manufacture of knitted and crocheted woollen textile products.	
			Manufacture of knitted and crocheted synthetic textile products.	
		18101	Manufacture of all type of textile garments and clothing accessories.	
4	OTHER MANUFACTURING GOODS	10	Mining of Coal and Lignite; Extraction of Peat	
		11	Extraction of Crude Petroleum and Natural Gas; Service Activities incidental to oil and gas extraction excluding surveying.	
		120	Mining of Uranium and Thorium ores(e.g. pitch blende),including concentrating of such ores.	
		131	Mining of iron ores .	
		132	Mining of non-ferrous metal ores, except Uranium and Thorium ores.	
			Quarrying of stones,sand and clay.	
		142	Mining and Quarrying, n.e.c.	
			Preparation and spinning of silk fibre including blended silk	
			Preparation and spinning of wool, including other animal hair and blended wool including	
			other animal hair.	
			Preparation and spinning of manmade fibre including blended manmade fibre.	
			Weaving, Manufacture of cotton and cotton mixture fabrics.	
			Weaving, Manufacture of silk and silk mixture fabrics.	
			Weaving, Manufacture of wool and wool mixture fabrics.	
			Weaving, Manufacture of manmade fibre and manmade fibre mixture fabrics.	
			Manufacture of made up Textile articles, except apparel.	
			Manufacture of Carpets and Rugs	
			Manufacture of cordage, rope, twine & netting.  Embroidery work & making of laces and fringes.	
			Zari work and making of other ornamental trimmings.	
			Manufacture of linoleum and similar products.	
			Manufacture of gas mantles.	
			Manufacture of made up canvas goods such as tent and sails etc.	
			Manufacture of wadding of textile materials & articles of wadding such as sanitary towel	
		17297	Manufacture of metallised yarn or gimped yarn; rubber thread or cord covered with textile material; textile yarn or strip, impregnated, covered or sheathed with rubber or plastic	
		17298	Manufacture of Waterproof textile excluding Tarpaulin	
		18102	Manufacture of Rain coats of waterproof textile fabric or plastic sheetings	
		18103	Manufacture of hats and caps from waterproofs.	
		18104	Manufacture of wearing apparel of leather and substitute of leather.	
		18109	Manufacture of wearing apparel n.e.c.	
		1820	Dressing and dyeing of fur; manufacture of articles of fur	
		191	Tanning and dressing of leather, manufacture of luggage hand bags,saddlery and harness	
		192	Manufacture of footwear	
		201	Saw milling and planning of wood.	
		2021	Manufacture of veneer sheets; manufacture of plywood, laminboard, particle board and other pannels and boards	
		2022	Manufacture of builders' carpentary and joinery.	
		20291	Manufacture of wooden industrial goods.	
		20292	Manufacture of cork and cork products.	
		210	Manufacture of Paper and paper products	
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282 Manufacture of plastic products 283 Manufacture of structural metal products, tanks, reservoirs and steam generators. 284 Manufacture of other fabricated metal products, metal working service activities. 285 Manufacture of Fertilizers and Nitrogen compounds. 286 Manufacture of Fertilizers and Nitrogen compounds. 287 Manufacture of Coke, Refined Petroleum Products and Nuclear Fuel 288 Publishing. 289 Printing and service activities related to printing. 280 Reproduction of recorded media. 280 Manufacture of Basic Chemicals except Fertilizers and Nitrogen compounds. 281 Manufacture of Plastics in primary forms and of synthetic rubber. 281 Manufacture of Plastics in primary forms and of synthetic rubber. 282 Manufacture of Plastics in primary forms and of synthetic rubber. 283 Manufacture of Plastics in primary forms and of synthetic rubber. 284 Manufacture of Great Products. 285 Manufacture of Great Products. 286 Manufacture of Great and great products. 287 Manufacture of Great and great products. 288 Products. 289 Manufacture of Great is said glass products. 289 Manufacture of Creamic sanitary wares, sinks, batts, water closel paus, flushing cists except products. 289 Manufacture of Creamic is insulators & insulating fittings for electrical machines & equipinents. 289 Manufacture of Creamic ware for laboratory chemicals or other technical use. 289 Manufacture of Structural Creamic products. 289 Manufacture of structural Creamic products. 289 Manufacture of structural on refractory Clay & Ceramic products. 289 Manufacture of Structural on refractory Clay & Ceramic products. 289 Manufacture of Structural on Refractory Clay & Ceramic products. 289 Manufacture of Structural on Refractory Clay & Ceramic products. 280 Manufacture of Structural on Refractory Clay & Ceramic products. 280 Manufacture of Structural on Refractory Clay & Ceramic products. 280 Manufacture of Structural on Active of Structural Creamic Products. 280 Manufacture of Structural Order on Structural Creamic Products. 281 Manufacture of Special p	S.No	SECTORS	NIC CODES	TYPE - URBAN FORMAL
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311 Manufacture of Electric motors, Generators and Transformers.  312 Manufacture of Electricity distribution and control panel apparatus.  313 Manufacture of insulated wire and cables.  315 Manufacture of Electric Lamps and lighting Equipment.  319 Manufacture of Other Electrical equipments n.e.c.  314 Manufacture of Accumulators, primary cells and primary batteries.  321 Manufacture of Electronic valves and tubes and other electronic components.  322 Manufacture of Television and Radio Transmitters & apparatus for line telephony & I			292	Manufacture of Special purpose Machinery.
312 Manufacture of Electricity distribution and control panel apparatus.  313 Manufacture of insulated wire and cables.  315 Manufacture of Electric Lamps and lighting Equipment.  319 Manufacture of Other Electrical equipments n.e.c.  314 Manufacture of Accumulators, primary cells and primary batteries.  321 Manufacture of Electronic valves and tubes and other electronic components.  322 Manufacture of Television and Radio Transmitters & apparatus for line telephony & I			3000	Manufacture of office, accounting and computing machinery
313 Manufacture of insulated wire and cables.  315 Manufacture of Electric Lamps and lighting Equipment.  319 Manufacture of Other Electrical equipments n.e.c.  314 Manufacture of Accumulators, primary cells and primary batteries.  321 Manufacture of Electronic valves and tubes and other electronic components.  322 Manufacture of Television and Radio Transmitters & apparatus for line telephony & 1			311	Manufacture of Electric motors, Generators and Transformers.
315 Manufacture of Electric Lamps and lighting Equipment. 319 Manufacture of Other Electrical equipments n.e.c. 314 Manufacture of Accumulators,primary cells and primary batteries. 321 Manufacture of Electronic valves and tubes and other electronic components. 322 Manufacture of Television and Radio Transmitters & apparatus for line telephony & I			312	Manufacture of Electricity distribution and control panel apparatus.
319 Manufacture of Other Electrical equipments n.e.c. 314 Manufacture of Accumulators, primary cells and primary batteries. 321 Manufacture of Electronic valves and tubes and other electronic components. 322 Manufacture of Television and Radio Transmitters & apparatus for line telephony & 1			313	Manufacture of insulated wire and cables.
314 Manufacture of Accumulators,primary cells and primary batteries.  321 Manufacture of Electronic valves and tubes and other electronic components.  322 Manufacture of Television and Radio Transmitters & apparatus for line telephony & 1			315	Manufacture of Electric Lamps and lighting Equipment.
321 Manufacture of Electronic valves and tubes and other electronic components.  322 Manufacture of Television and Radio Transmitters & apparatus for line telephony & 1			319	Manufacture of Other Electrical equipments n.e.c.
321 Manufacture of Electronic valves and tubes and other electronic components.  322 Manufacture of Television and Radio Transmitters & apparatus for line telephony & 1			314	Manufacture of Accumulators,primary cells and primary batteries.
coctapity.			322	Manufacture of Television and Radio Transmitters & apparatus for line telephony & line telegraphy.
323 Manufacture of Television and Radio receivers, sound or video recording or reproduc apparatus & associated goods.			323	Manufacture of Television and Radio receivers, sound or video recording or reproducing
331 Manufacture of medical appliances and instruments and appliances for measuring,			331	Manufacture of medical appliances and instruments and appliances for measuring,
checking, testing, navigating and other purposes except optical instruments.  332 Manufacture of optical instruments and photographic equipments.			222	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
333 Manufacture of watches and clocks.  34101 Manufacture of Heavy motor vehicles.:buses and vans principally designed for transport of the state of				
of persons.			34101	

S.No	SECTORS	NIC CODES	TYPE - URBAN FORMAL	
		34102	Manufacture of motor vehicles for the transport of goods: ordinary lorries, trucks and	
			goods vans, lorries with automatic discharging devices, tankers drop frame lorries, refuse collectors, etc.; special purpose motor lorries and trucks e.g. motor breakdown lorries, armoured cars, street sweepers, mobile medical/dental clinics, travelling libraries etc., also included over the road tractors for semi-trailers.	
		34103	Manufacture of motor cars.	
		34104	Manufacture of Jeep & Station wagon.	
		34105	Manufacture of special purpose motor cars such as racing cars, golf cars etc.	
		34106	Manufacture of chassis fitted with engines for the motor vehicles included in this class	
		34107	Manufacture of compression ignition or spark ignition reciprocating or rotary internal combustion engines used to power motor vehicles.	
			Manufacture of bodies (coach work) for motor vehicles; Manufacture of trailers and semi trailers.	
		343	Manufacture of of part and accesssories for motor vehicles and their engines.	
		351	Building and repair of Ships and Boats.	
		352	Manufacture of railway and tramway locomotives and rolling stocks.	
		353	Manufacture of Aircraft and Space crafts.	
		359	Manufacture of transport equipment n.e.c	
		36101	Manufacture of furtniture and fixtures made of wood, cane and reed.	
		36102	Manufacture of furniture and fixtures primarily of metal.	
			Manufacture of furniture and fixtures, primarily of plastic.	
		36104	Manufacture of coir foam mattresses and pillows etc.	
		36109	Manufacture of other furniture and fixtures n.e.c.	
		3691	Manufacture of jewellery and related articles.	
		3692	Manufacture of musical instruments.	
		3693	Manufacture of sport goods.	
		3694	Manufacture of games and toys	
			Other manufacturing	
			Recycling of metal waste and scrap	
			Recycling of non-metal waste and scrap	
			Maintenance and repair of motor vehicles.	
			Maintenance and repair of motor cycles, scootors and three wheelers.	
5	CONSTRUCTION		Site Preparation.	
	CONSTRUCTION		Building of complete constructions or parts thereof; civil engineering.	
			Installation of heating and air conditioning systems, antennas, elevators & escalators; insulation work (water, heat, sound); and sound proofing system.	
		45309	Other building installation n.e.c.(includes industrial process piping work,installation of illumination & signalling systems for roads, railways, airports, harboursetc., and installation of certain plants such as electric power and transformer plants, telecommunication plants and radar plants etc.	
6	OTHER SERVICES	401	Production, collection and distribution of Electricity.	
		402	Manufacture of Gas, distribution of Gaseous Fuels through mains.	
		403	Steam & Hot water supply.	
		41000	Collection, purification and distribution of Water.	
		501	Sale of motor vehicles(includes wholesale and retail sale of new and used passenger motor vehicles and lorries,trailers and semi-trailers).	
		50300	Sale of motor vehicle parts & accessories (includes wholesale and reatail sale of all kind of parts, components & accessories for motor vehicles, when not combined with sale of such vehicles themselves.)	
		50401	Sale of new Motor cycles, Scooters and Threewheelers.	
			Activities of commission agents involved in the sale of Motor cycles,Scooters and Threewheelers.	
		50403	Activities of the Dealers involved in used Motor cycles, Scooters and Threewheelers.	

S.No	SECTORS	NIC CODES	TYPE - URBAN FORMAL	
		50500	Retail Sale of Automotive Fuel (includes the activity of petrol filling stations).	
			Wholesale on a fee or contract basis (includes commission agents, commodity brokers & auctioneers and all other wholesalers who trade on behalf and account of others.	
		5121	Wholesale of agricultural raw materials and live animals	
		51222	Wholesale of raw milk and dairy products	
		51223	Wholesale of meat, fish and eggs	
		51224	Wholesale of confectionery, bakery products and beverages other than intoxicants	
		51225	Wholesale of edible oils, fats, sugar and processed/manufactured spices etc.	
			Wholesale of tea, coffee and cocoa	
			Wholesale of manufactured tobacco and tobacco products	
			Wholesale of intoxicants like wines and liquors.	
		51229	Wholesale of other basic/ manufactured food stuffs n.e.c.	
		513	Wholesale of household goods	
		514	Wholesale of non-agricultural intermediate products, waste and scrap.	
		515	Wholesale of Machinery, equipments and supplies.	
		519	Other Wholesale (includes specialized Wholesale not covered in any one of the previous	
		501	categories and Wholesale in a variety of goods without any particular specialization).	
			Non-specialised retail trade in stores	
			Retail sale of food, beverages and tobacco in specialised stores	
		523	Other retail trade of new goods in specialised stores	
		524	Retail sale of second-hand goods in stores	
		5259	Other non-store retail sale	
			Hotels; Camping sites and other Provision of short-stay accomodation (restaurant facilities operated in connection with the provision of lodging remain classified in this group. Also Included in the operation of sleeping cars when carried on by separate units).	
		552	Restaurants, Bars and Canteens	
			Transport via Railways (includes passenger and freights by inter urban railways, also related activities such as shunting and switching).	
		60210	Other scheduled passenger land transport (includes activities providing regular urban, sub-urban, or inter urban transport of passengers on scheduled routes other than inter urban railway transport. They may be carried out with motor bus, tramway, trolley bus, underground and elevated railways. Also included are the operations of school buses, town -to-airport/station lines, sight seeing buses, aerial cableways etc.	
		60221	Other non-scheduled passenger land transport by motor vehicles.	
		60231	Freight Transport by Motor vehicles.	
		603	Transport via Pipelines.(includes transport of gases, liquids, slurry and other commodities via pipelines. Included are incidental activities like operaion of pump stations & maintenance of pipeline).	
		611	Sea & Coastal Water Transport.	
		612	Inland Water Transport.	
		621	Scheduled Air Transport	
			Non-scheduled Air Transport.	
			Cargo Handling.	
		63022		
			Storage and warehousing n.e.c.(includes general merchandise warehouses & warehousing of furniture, automobiles, gas & oil, chemicals, textiles. Also included is	
			storage of goods in foreign trade zones.)	
			Other Supporting Transport Activities.	
		6304	Activities of Travel Agencies & Tour operators; tourist assistance activities n.e.c.	
		6309	Activities of other Transport Agencies(includes forwarding of freight, organisation or arrangement of transport on the behalf of shipper or consignee, receiving and acceptance of freight, transportation document preparation, consolidation and break bulk of freight, freight brokerage, custom house brokerage, bill auditing and freight rate information, brokerage for ship and aircraft space, packing and cratting and unpacking and de-crating,	
			weighing and sampling of freight etc.	
		641	Post and Courier activities.	
		642	Telecommunication	
		1		

No	SECTORS	NIC CODES	TYPE - URBAN FORMAL
		651	Monetary Intermediation ( This group Includes the obtaining of funds in the form of deposits.)
		659	Other Financial Intermediation ( This group Includes financial intermediation other that that conducted by Monetary Institutions).
		660	Insurance and Pension Funding, except compulsory social security.
		671	Activities auxillary to Financial Intermediation, except Insurance and Pension Funding. This group Includes activities involved in or closely related to Financial Intermediation other than Insurance and Pension Funding, but not themselves involving Financial Intermediation).
		672	Activities auxillary to insurance and Pension Funding. (This group Includes activities involved in or closely related to Management of Insurance and Pension Funding other than Financial Intermediation and Includes activities of insurance agents, average & los adjusters, actuaries and salvage administrator.)
		701	Real estate activities with own or leased property. (This group Includes buying, selling renting, and operating with own or leased real estate such as apartment building & dwelling, non residential buildings, development & sale of land, cemetry lots, operating of apartment hotels and residential mobile home sites).
		702	Real estate acivities on a fee or contract basis.
		711	Renting of Transport equipments.
		7122	Renting of Construction and civil engineering machinery and equipments
		7123	Renting of office machinery and equipments.( This Includes computers).
		7129	Renting of other machinery and equipments.
		72	Computer and related activities
		73	Research and Development
		7412	Accounting, book keeping and auditing activities; tax consultancy.
		7413	Market Research and public opinion polling.
		7414	Business and Management consultancy.
		742	Architectural and engineering and other technical activities.
		743	Advertising
		749	Business activities n.e.c.
		80	Education.
		85	Health and Social Work
		90	Sewage and refuse disposal,sanitation and similar activities.
		91	Activities of membership Organisations
		92	Recreational, Cultural and Sporting activities
		93	Other Service activities
		95	Private households with employed persons
		99	Extra Territorial Organisations and bodies
7	PUBLIC ADMINISTRATION AND DEFENCE	751	Adminitration of State and Economic and Social policy of the community.
		752	Provision of services tp the community as a whole.
		753	Compulsory Social Security Activities.(includes funding & admin. Of Govt. provided social security programmes e.g. old age pension schemes,unemployment insurance scheme etc.)

S.No	SECTORS	NIC CODES	TYPE - URBAN INFORMAL
1	AGRICULTURE	0111	Growing of cereals and oher crops n.e.c.
		0112	Growing of vegetables, horticultural specialities and nursery products.
		01131	Growing of coffee and cocoa beans.
		01133	Growing of edible nuts including coconuts.
			Growing of fruit: citrus, tropical pome or stone fruit; small fruit such as berries; other fruit such as avocados, grapes, dates or bread fruit etc.
			Growing of spice crops including :spice leaves; spice seeds;spice flower, spice fruit or other spices. Also includes growing of betel leave.
			Cattle (including yak and buffalo) breeding, rearing and ranching etc; production of raw milk and bovine semen .
		01212	Rearing of goats, production of milk.
			Hunting, trapping and game propagation including related service activities.
			Gathering of other wild growing forest materials including fuel/firewood.
		05003	Gathering of marine material such as natural pearls, sponges, cord and algae.
			Service activities related to marine and fresh water fisheries and to operators of fish hatcheries or fish firms.
2	AGROPROCESSING		Mutton -slaughtering, preparation.
			Beef-slaughtering, preparation.
		15113	Pork-slaughtering, preparation.
		15114	Poultry and other-slaughtering, preparation.
		15121	Sun-drying of fish.
			Sundrying of fruits and vegetables.
		15136	Manufacture of pickles, chutneys, murabbas etc.
		15138	Manufacture of potato flour and meals and prepared meals of vegetables.
		15203	Manufacture of butter, cream, ghee, cheese and khoya etc
		15311	Flour milling
		15313	Dal milling.
		15314	Processing and grinding of grain
		15315	Vegetable Milling, flour or meal of dried leguminous vegetables of roots or tubers or of edible nuts
		15319	Other grain milling and processing activities.
		15422	Manufacture of gur from sugar cane.
		15423	Manufacture of gur from other than sugar cane.
		15424	Manufacture of 'khandasari 'sugar from sugar cane.
		15425	Manufacture of 'khandsari 'sugar other than from sugar cane.
		15426	Manufacture of 'boora' and candy from sugar cane.
		15427	Manufacture of 'boora' and candy other than from sugar cane.
		15428	Manufacture of molasses.
		15429	Manufacture of other indigenous sugar cane/sugar beet/palm juice products.
		15512	Manufacture of country liquor.
		15312	Rice milling
	READYMADE GARMENTS		Manufacture of knitted and crocheted textile products n.e.c.
4	OTHER MANUFACTURING GOODS		Preparation and spinning of cotton fiber including blended cotton
		17119	Preparation, spinning and weaving of jute, mesta and other natural fibers including blended natural fibers.
		1712	Finishing of Textiles
			Manufacture of other Textiles / Textile products
			Manufacturing of wooden containers
	1		<i>G</i>

S.No	SECTORS	NIC CODES	TYPE - URBAN INFORMAL	
		20293	Manufacture of bamboo and cane article and fixture of bamboo, cane, reed and grassproducts	
		20294	Manufacture of broomsticks	
		20295	Manufacture of wooden agricultural implements.	
		20296	Manufacture from cane and bamboo of shopping bags, ornament boxes, costume articles, trays, table lamps, fancy baskets, table mats, tumbler and vessel holders and other household utilities.	
		20297	Manufacture of articles made of palm leaf,screw-pine leaf and khajoor leaf; articles of vegetable fibre etc.	
		20298	Manufacture of products of pith and shalapith.	
		20299	Manufacture of other wood products.	
		26911	Manufacture of articles of Porcelain or china, earthenware, imitation porcelain or common pottery, including earthen statues.	
		26912	Manufacture of statues and ornamental articles of stone and other stoneware, including writing slates of slatestone.	
		526	Repair of personal and household goods.	
5	CONSTRUCTION	45301	11 Plumbing and Drainage.	
		45303	Electrical installation work for constructions.	
		45402	Glazing, plastering, painting and decorating, floor sanding and other similar finishing works.	
		45403	Finish Carpentry such as fixing of doors, windows, panels etc.and other building finishing works n.e.c.	
6	OTHER SERVICES	51221	Wholesale of fruits and vegetables	
		52520	Retail sale via stalls and markets.	
		526	Repair of Personal & Household goods (includes Repair of Personal & Household goods when not done in combination with manufacture or wholesale or retail sale of these goods).	
		60222	Other non-scheduled passenger land transport,other than by motor vehicles (i.e. by bullock carts, tongas& cycle rickshaws etc.)	
		60232	Freight transport other than by motor vehicles (i.e. by man or animal drawn vehicle such as bullock carts, tongas& cycle rickshaws etc.)	
		63021	Warehousing of agricultural products without refrigeration.	
		71210	Renting of Agricultural machinery and equipments.	
		713	Renting of personal and household goods n.e.c. (Includes Renting of all kinds of personal and household goods whether the customers are household or industries).	
		74110	Legal Activities	
7	PUBLIC ADMN AND D	DEFENCE		

**APPENDIX H: Consumption Items Mapped With Sectors** 

Code	Consumption Item	Sector
101	Rice - P.D.S.	Agroprocessing
102	Rice - Other Sources	Agroprocessing
103	Chira	Agroprocessing
104	Khoi, Lawa	Agroprocessing
105	Muri	Agroprocessing
106	Other Rice Products	Agroprocessing
107	Wheat/Atta - P.D.S.	Agriculture
108	Wheat/Atta - Other Sources	Agriculture
110	Maida	Agroprocessing
111	Suji, Rawa	Agroprocessing
112	Sewai, Noodles	Agroprocessing
113	Bread (Bakery)	Agroprocessing
114	Other Wheat Products	Agroprocessing
115	Jowar & Products	Agroprocessing
116	Bajra & Products	Agroprocessing
117	Maize & Products	Agroprocessing
118	Barley & Products	Agroprocessing
120	Small Millets & Products	Agroprocessing
121	Ragi & Products	Agroprocessing
122	Other Cereals	Agriculture
139	Cereal Substitutes (Tapioca, Jackfruit Seed Etc.)	Agroprocessing
140	Arhar (Tur)	Agriculture
141	Gram (Split)	Agriculture
142	Gram (Whole)	Agriculture
143	Moong	Agriculture
144	Masur	Agriculture
145	Urd	Agriculture
146	Peas	Agriculture
147	Soyabean	Agriculture
148	Khesari	Agriculture
150	Other Pulses	Agriculture
151	Gram Products	Agroprocessing
152	Besan	Agroprocessing
153	Other Pulse Products	Agroprocessing
160	Milk: Liquid	Agroprocessing
161	Baby Food	Agroprocessing
162	Milk : Condensed/ Powder	Agroprocessing
163	Curd	Agroprocessing
164	Ghee	Agroprocessing
165	Butter	Agroprocessing
166	Ice-Cream	Agroprocessing
167	Other Milk Products	Agroprocessing
		0r

Code	Consumption Item	Sector
170	Vanaspati, Margarine	Agroprocessing
171	Mustard Oil	Agroprocessing
172	Groundnut Oil	Agroprocessing
173	Coconut Oil	Agroprocessing
174	Edible Oil (Others)	Agroprocessing
180	Eggs	Agriculture
181	Fish, Prawn	Agriculture
182	Goat Meat/Mutton	Agriculture
183	Beef/ Buffalo Meat	Agriculture
184	Pork	Agriculture
185	Chicken	Agriculture
186	Others (Birds, Crab, Oyster, Tortoise Etc.)	Agriculture
190	Potato	Agriculture
191	Onion	Agriculture
192	Radish	Agriculture
193	Carrot	Agriculture
194	Turnip	Agriculture
195	Beet	Agriculture
196	Sweet Potato	Agriculture
197	Arum	Agriculture
198	Pumpkin	Agriculture
200	Gourd	Agriculture
201	Bitter Gourd	Agriculture
202	Cucumber	Agriculture
203	Parwal / Patal	Agriculture
204	Jhinga / Torai	Agriculture
205	Snake Gourd	Agriculture
206	Papaya (Green)	Agriculture
207	Cauliflower	Agriculture
208	Cabbage	Agriculture
210	Brinjal	Agriculture
211	Lady's Finger	Agriculture
212	Palak/Other Leafy Vegetables	Agriculture
213	French Beans And Barbati	Agriculture
214	Tomato	Agriculture
215	Peas	Agriculture
216	Chillis (Green)	Agriculture
217	Capsicum	Agriculture
218	Plantain (Green)	Agriculture
220	Jackfruit (Green)	Agriculture

Code	Consumption Item	Sector
221	Lemon	Agriculture
222	Other Vegetables	Agriculture
230	Banana	Agriculture
231	Jackfruit	Agriculture
232	Watermelon	Agriculture
233	Pineapple	Agriculture
234	Coconut	Agriculture
235	Guava	Agriculture
236	Singara	Agriculture
237	Orange,Mausami	Agriculture
238	Papaya	Agriculture
240	Mango	Agriculture
241	Kharbooza	Agriculture
242	Pears (Naspati)	Agriculture
243	Berries	Agriculture
244	Leechi	Agriculture
245	Apple	Agriculture
246	Grapes	Agriculture
247	Other Fresh Fruits	Agriculture
250	Coconut (Copra)	Agriculture
251	Groundnut	Agriculture
252	Dates	Agriculture
253	Cashewnut	Agriculture
254	Walnut	Agriculture
255	Other Nuts	Agriculture
256	Raisin (Kishmish, Monacca Etc.)	Agriculture
257	Other Dry Fruits	Agriculture
260	Sugar - P.D.S.	Agroprocessing
261	Sugar - Other Sources	Agroprocessing
262	Gur	Agroprocessing
263	Candy (Misri)	Agroprocessing
264	Honey	Agroprocessing
269	Sugar : S.T.	Agroprocessing
279	Salt	Agroprocessing
280	Turmeric	Agriculture
281	Black Pepper	Agriculture
282	Dry Chillies	Agriculture
283	Garlic	Agriculture
284	Tamarind	Agriculture
285	Ginger	Agriculture
286	Curry Powder	Agroprocessing
287	Oilseeds	Agriculture
288	Other Spices	Agriculture

Code	Consumption Item	Sector
290	Tea: Cups	Agroprocessing
291	Tea: Leaf	Agroprocessing
292	Coffee : Cups	Agroprocessing
293	Coffee: Powder	Agroprocessing
294	Ice	Agroprocessing
295	Cold Beverages: Bottled/Canned	Agroprocessing
296	Fruit Juice And Shake	Agroprocessing
297	Coconut: Green	Agriculture
298	Other Beverages (Cocoa, Chocolate Etc.)	Agroprocessing
300	Biscuits	Agroprocessing
301	Salted Refreshments	Agroprocessing
302	Prepared Sweets	Agroprocessing
303	Cooked Meals	Agroprocessing
304	Cake, Pastry	Agroprocessing
305	Pickles	Agroprocessing
306	Sauce	Agroprocessing
307	Jam, Jelly	Agroprocessing
308	Other Processed Food	Agroprocessing
310	Pan : Leaf	Agriculture
311	Pan : Finished	Agroprocessing
312	Supari	Agroprocessing
313	Lime	Agroprocessing
314	Katha	Agroprocessing
315	Other Ingredients For Pan	Agroprocessing
320	Bidi	Other Manufacturing Goods
321	Cigarettes	Other Manufacturing Goods
322	Leaf Tobacco	Other Manufacturing Goods
323	Snuff	Other Manufacturing Goods
324	Hookah Tobacco	Other Manufacturing Goods
325	Cheroot	Other Manufacturing Goods
326	Zarda, Kimam, Surti	Other Manufacturing Goods
327	Other Tobacco Products	Other Manufacturing Goods
330	Ganja	Other Manufacturing Goods
331	Toddy	Other Manufacturing Goods
332	Country Liquor	Agroprocessing
333	Beer	Agroprocessing
334	Foreign Liquor Or Refined Liquor	Agroprocessing
335	Other Intoxicants	Agroprocessing
340	Coke	Other Manufacturing Goods
341	Firewood And Chips	Other Manufacturing Goods
342	Electricity	Other Manufacturing Goods

Code	Consumption Item	Sector
343	Dung Cake	Other Manufacturing Goods
344	Kerosene - P.D.S.	Other Manufacturing Goods
345	Kerosene - Other Sources	Other Manufacturing Goods
346	Matches	Other Manufacturing Goods
347	Coal	Other Manufacturing Goods
348	L.P.G.	Other Manufacturing Goods
350	Charcoal	Other Manufacturing Goods
351	Candle	Other Manufacturing Goods
352	Gobar Gas	Other Manufacturing Goods
353	Other Fuel	Other Manufacturing Goods
360	Dhoti	Readymade Garments
361	Sari	Readymade Garments
362	Cloth For Shirt, Pyjama, Salwar Etc.	Other Manufacturing Goods
363	Cloth For Coat, Trousers, Overcoat Etc.	Other Manufacturing Goods
364	Chaddar, Dupatta, Shawl Etc.	Other Manufacturing Goods
365	Lungi	Readymade Garments
366	Gamchha, Towel, Handkerchief	Other Manufacturing Goods
367	Hosiery Articles, Stockings, Under-Garments Etc.	Other Manufacturing Goods
368	Ready -Made Garments	Readymade Garments
370	Headwear	Readymade Garments
371	Knitted Garments, Swea- Ter, Pullover, Cardigan, Muffler, Scarf Etc.	Readymade Garments
372	Knitting Wool, Cotton Yarn	Other Manufacturing Goods
373	Clothing: Others	Other Manufacturing Goods
374	Second-Hand Clothing	Other Manufacturing Goods
380	Bed Sheet, Bed Cover	Other Manufacturing Goods
381	Rug, Blanket	Other Manufacturing Goods
382	Pillow, Quilt, Mattress	Other Manufacturing Goods
383	Cloth For Upholstery, Curtain, Table-Cloth Etc.	Other Manufacturing Goods
384	Mosquito Net	Other Manufacturing Goods
385	Mats And Matting	Other Manufacturing Goods
386	Cotton	Other Manufacturing Goods
387	Bedding: Others	Other Manufacturing Goods
390	Leather Boots, Shoes	Other Manufacturing Goods
391	Leather Sandals, Chappals Etc.	Other Manufacturing Goods
392	Other Leather Footwear	Other Manufacturing Goods
393	Rubber / PVC Footwear	Other Manufacturing Goods
394	Other Footwear	Other Manufacturing Goods
400	Books, Journals	Other Manufacturing Goods
401	Newspapers, Periodicals	Other Manufacturing Goods
402	Library Charges	Other Services

Code	Consumption Item	Sector
403	Stationery	Other Manufacturing Goods
404	Tuition And Other Fees (School, College, Etc.)	Other Services
405	Private Tutor/Coaching Centre	Other Services
406	Other Educational Expenses	Other Services
410	Medicine	Other Manufacturing Goods
411	X-Ray, ECG, Pathological Test Etc.	Other Services
412	Doctor's/Surgeon's Fee	Other Services
413	Hospital & Nursing Home Charges	Other Services
414	Other Medical Expenses	Other Services
420	Medicine	Other Manufacturing Goods
421	X-Ray, ECG, Pathological Test Etc.	Other Services
422	Doctor's/Surgeon's Fee	Other Services
423	Family Planning Appliances	Other Services
424	Other Medical Expenses	Other Services
430	Cinema, Theatre	Other Services
431	Mela, Fair, Picnic	Other Services
432	Sports Goods, Toys Etc.	Other Manufacturing Goods
433	Club Fees	Other Services
434	Goods For Recreation And Hobbies	Other Manufacturing Goods
435	Photography	Other Services
436	Video Cassette / V.C.R. / V.C.P.(Hire)	Other Manufacturing Goods
437	Other Entertainment	Other Services
440	Spectacles	Other Manufacturing Goods
441	Torch	Other Manufacturing Goods
442	Pen	Other Manufacturing Goods
443	Lock	Other Manufacturing Goods
444	Umbrella, Raincoat	Other Manufacturing Goods
445	Lighter (Bidi/Cigarette/Gas Stove)	Other Manufacturing Goods
446	Other Goods For Personal Care And Effects	Other Manufacturing Goods
450	Toilet Soap	Other Manufacturing Goods
451	Toothbrush, Toothpaste Etc.	Other Manufacturing Goods
452	Powder, Snow, Cream	Other Manufacturing Goods
453	Hair Oil, Lotion, Shampoo, Hair Cream	Other Manufacturing Goods
454	Comb	Other Manufacturing Goods
455	Shaving Blades, Shaving Stick, Razor	Other Manufacturing Goods
456	Shaving Cream	Other Manufacturing Goods
457	Sanitary Napkins	Other Manufacturing Goods
458	Other Toilet Articles	Other Manufacturing Goods
460	Electric Bulb, Tubelight	Other Manufacturing Goods
461	Electric Batteries	Other Manufacturing Goods

Code	Consumption Item	Sector
462	Other Non-Durable Electric Goods	Other Manufacturing Goods
463	Earthenware	Other Manufacturing Goods
464	Glassware	Other Manufacturing Goods
465	Bucket, Water Bottle/Feeding Bottle & Other Plastic Goods	Other Manufacturing Goods
466	Coir, Rope Etc.	Other Manufacturing Goods
467	Washing Soap/Soda	Other Manufacturing Goods
468	Other Washing Requisites	Other Manufacturing Goods
470	Agarbati	Other Manufacturing Goods
471	Flower(Fresh) : All Purposes	Agriculture
472	Insecticide, Acid Etc.	Other Manufacturing Goods
473	Other Petty Articles	Other Manufacturing Goods
480	Domestic Servant/Cook	Other Services
481	Sweeper	Other Services
482	Barber, Beautician Etc.	Other Services
483	Washerman, Laundry, Ironing	Other Services
484	Tailor	Other Services
485	Priest	Other Services
486	Legal Expenses	Other Services
487	Postage & Telegram	Other Services
488	Telephone Charges	Other Services
490	Repair Charges For Non-Durables	Other Services
491	Grinding Charges	Other Services
492	Miscellaneous Expenses	Other Services
493	Pet Animals (Incl. Birds, Fish)	Other Services
494	Other Consumer Services Excluding Conveyance	Other Services
500	Airway Fare	Other Services
501	Railway Fare	Other Services
502	Bus/Tram Fare	Other Services
503	Taxi, Auto-Rickshaw Fare	Other Services
504	Steamer, Boat Fare	Other Services
505	Rickshaw (Hand Drawn & Cycle) Fare	Other Services
506	Horse Cart Fare	Other Services
507	Porter Charges	Other Services
508	Petrol	Other Services
510	Diesel	Other Services
511	Lubricating Oil	Other Services
512	School Bus/Van	Other Services
513	Other Hired Conveyance	Other Services
520	House Rent, Garage Rent (Actual)	Other Services
521	Residential Land Rent	Other Services

Code	Consumption Item	Sector
522	Consumer Rent (Other Goods)	Other Services
539	House Rent, Garage Rent (Imputed- Urban Only)	Other Services
540	Water Charges	Other Services
541	Other Consumer Taxes & Cesses	Other Services
550	Bedstead	Other Manufacturing Goods
551	Almirah, Dressing Table	Other Manufacturing Goods
552	Chair, Stool, Bench, Table	Other Manufacturing Goods
553	Suitcase, Trunk, Box, Handbag And Other Travel Goods	Other Manufacturing Goods
554	Foam, Rubber Cushion (Dunlopillo Type)	Other Manufacturing Goods
555	Carpet, Daree & Other Floor Mattings	Other Manufacturing Goods
556	Paintings, Drawings, Engravings Etc.	Other Manufacturing Goods
557	Other Furniture & Fixtures (Couch, Sofa Etc.)	Other Manufacturing Goods
560	Gramophone & Record Player	Other Manufacturing Goods
561	Radio	Other Manufacturing Goods
562	Television	Other Manufacturing Goods
563	Vcr/Vcp	Other Manufacturing Goods
564	Camera & Photographic Equipment	Other Manufacturing Goods
565	Tape Recorder, CD Player	Other Manufacturing Goods
566	Gramophone Record, Audio/Video Cassette	Other Manufacturing Goods
567	Musical Instruments	Other Manufacturing Goods
568	Other Goods For Recreation	Other Manufacturing Goods
570	Gold Ornaments	Other Manufacturing Goods
571	Silver Ornaments	Other Manufacturing Goods
572	Jewels, Pearls	Other Manufacturing Goods
573	Other Ornaments	Other Manufacturing Goods
580	Stainless Steel Utensils	Other Manufacturing Goods
581	Other Metal Utensils	Other Manufacturing Goods
582	Casseroles, Thermos, Thermoware	Other Manufacturing Goods
583	Other Crockery & Utensils	Other Manufacturing Goods
590	Electric Fan	Other Manufacturing Goods
591	Air Conditioner, Air Cooler	Other Manufacturing Goods
592	Lantern, Lamp, Electric Lampshade	Other Manufacturing Goods
593	Sewing Machine	Other Manufacturing Goods
594	Washing Machine	Other Manufacturing Goods
595	Stove	Other Manufacturing Goods
596	Pressure Cooker/Pressure Pan	Other Manufacturing Goods
597	Refrigerator	Other Manufacturing Goods
598	Electric Iron, Heater, Toaster, Oven & Other Electric Heating Appliances	Other Manufacturing Goods
600	Other Cooking/Household Appliances	Other Manufacturing Goods
610	Bicycle	Other Manufacturing Goods

Code	Consumption Item	Sector
611	Motor Cycle, Scooter	Other Manufacturing Goods
612	Motor Car, Jeep	Other Manufacturing Goods
613	Tyres & Tubes	Other Manufacturing Goods
614	Other Transport Equipment	Other Manufacturing Goods
620	Glass Eyes, Hearing Aids & Orthopaedic Equipment	Other Manufacturing Goods
621	Other Medical Equipment	Other Manufacturing Goods
630	Clock, Watch	Other Manufacturing Goods
631	Other Machines For Household Work	Other Manufacturing Goods
632	Any Other Personal Goods	Other Manufacturing Goods
640	Bathroom And Sanitary Equipment	Other Manufacturing Goods
641	Plugs, Switches & Other Electrical Fittings	Other Manufacturing Goods
642	Residential Building & Land (Cost Of Repairs Only)	Other Manufacturing Goods

## APPENDIX I: SOCIAL ACCOUNTING MATRIX, 1999-00

			1	2	3	4	5	6	7	8	9	10	11	12
1	Lab Cas - Female	I												
2	Lab Cas - Male	I												
3	Lab HB - Female	I												
4	Lab HB - Male	ı												
5	Lab Reg - Female	F												
6	Lab Reg - Male	F												
7	OAW - Female	I												
8	OAW - Male	I												
9	OAW - HB - Female	I												
10	OAW - HB - Male	I												
11	Employer - Female	F												
12	Employer - Male	F												
13	Rural Poor - Non Agri	F	269	460	2	7	896	3454	95	19	15	2	0	0
14	Rural Non Poor - Non Agri	F	866	963	7	14	2797	16144	955	312	151	29	0	380
15	Urban Poor	F	649	5846	5	37	4237	27252	897	1506	142	141	0	20
16	Urban Non Poor	F	822	22292	7	69	30289	195226	3255	8129	516	760	34	1283
17	Rural Poor - Agri	I	58561	174835	467	2500	3328	11205	11391	74739	1805	6985	0	0
18	Rural Non Poor - Agri	I	14401	79242	728	3947	7734	34848	30320	237381	4804	19185	0	22
19	Rural Poor - Non Agri	I	4849	8258	39	118	387	1147	71761	29974	508	2801	0	21
20	Rural Non Poor - Non Agri	I	10323	20275	82	290	2043	5894	9325	249585	1478	8377	0	328
21	Urban Poor	I	6339	38244	50	461	3187	7846	4403	31858	698	2978	0	9
22	Urban Non Poor	I	5618	37748	198	2395	7595	15816	3060	76271	4249	27647	42	638
	Government													
24	Rest of World													

			1	2	3	4	5	6	7	8	9	10	11	12
25	Agriculture	I												
26	Agro Processing	F												
27	Agro Processing	I												
28	Readymade Garments	F												
29	Readymade Garments	I												
30	Other manufacturing goods	F												
31	Other manufacturing goods	I												
32	Construction	I												
33	Other Services	F												
34	Other Services	I												
	Government Services	F												
	Agriculture	I												
	Agro Processing	F												
	Agro Processing	I												
39	Readymade Garments	F												
	Readymade Garments	I												
	Other manufacturing goods	F												
	Other manufacturing goods	I												
	Construction	I												
	Other Services	F												
45	Other Services	I												
46	Government Services	F												
	Agriculture	I												
48	Agro Processing	F												
	Agro Processing	I												
	Readymade Garments	F												
	Readymade Garments	I												
	Other manufacturing goods													
53	Other manufacturing goods	I												

			1	2	3	4	5	6	7	8	9	10	11	12
54	Construction	l												
	Other Services	F												
	Other Services	I												
57	Government Services	F												
58	Agriculture	l												
59	Agro Processing	F												
60	Agro Processing	I												
61	Readymade Garments	F												
62	Readymade Garments	l												
	Other manufacturing goods	F												
	Other manufacturing goods	I												
	Construction	I												
66	Other Services	F												
	Other Services	l												
	Government Services	F												
	Rural Poor - Non Agri	F												
	Rural Non Poor - Non Agri	F												
	Urban Poor	F												
	Urban Non Poor	F												
	Rural Poor - Agri	I												
	Rural Non Poor - Agri	I												
	Rural Poor - Non Agri	I												
76	Rural Non Poor - Non Agri	I												
	Urban Poor	l												
	Urban Non Poor	I												
	Households		_											
	Private		_											
	Rest of World													
82	TOTAL		102696	388161	1585	9838	62492	318832	135462	709774	14366	68905	76	2701

			13	14	15	16	17	18	19	20	21	22	23	24
1	Lab Cas - Female	I												
2	Lab Cas - Male	l												
3	Lab HB - Female	I												
4	Lab HB - Male	I												
5	Lab Reg - Female	F												
6	Lab Reg - Male	F												
	OAW - Female	I												
8	OAW - Male	I												
9	OAW - HB - Female	l												
10	OAW - HB - Male	I												
11	Employer - Female	F												
12	Employer - Male	F												
13	Rural Poor - Non Agri	F												89
	Rural Non Poor - Non Agri	F												393
	Urban Poor	F												5751
16	Urban Non Poor	F												17211
17	Rural Poor - Agri	I												910
18	Rural Non Poor - Agri	I												1725
19	Rural Poor - Non Agri	l												1689
20	Rural Non Poor - Non Agri	I												3821
21	Urban Poor	I												2939
22	Urban Non Poor	I												18603
	Government		-99	-342	-989	32142	-198	-1585	-199	2405	-1187	13412		
24	Rest of World												105	

			13	14	15	16	17	18	19	20	21	22	23	24
25	Agriculture	I												
26	Agro Processing	F												
27	Agro Processing	I												
	Readymade Garments	F												
29	Readymade Garments	I												
30	Other manufacturing goods	F												
31	Other manufacturing goods	I												
32	Construction	I												
	Other Services	F												
	Other Services	I												
35	Government Services	F												
	Agriculture	I	1384	4452	13597	40895	107108	59117	16516	31218	24682	27298		
37	Agro Processing	F	351	1140	2935	11160	15859	18290	3596	6837	4348	5890		
	Agro Processing	I	267	870	2239	8515	16686	8181	2745	5218	3318	4494		
39	Readymade Garments	F	7	30	65	281	754	1441	113	508	159	310		
40	Readymade Garments	I	2	9	22	91	244	467	36	787	51	100		
41	Other manufacturing goods	F	857	2948	8180	28277	58523	53040	10725	16063	13274	21120		
42	Other manufacturing goods	I	212	727	2017	6975	6758	18431	2645	6653	3275	5209		
	Construction	I	0	0	0	0	0	0	0	0	0	0		
	Other Services	F	204	1253	2596	14009	83061	115362	12852	40969	16637	38168		
_	Other Services	I	129	796	1650	8902	32124	104378	8167	23452	10572	16436		
	Government Services	F	0	0	0	0	0	0	0	0	0	0	483251	
47	Agriculture	I	0	0	0	0	0	0	0	0	0	0		
	Agro Processing	F	5	17	45	171	243	281	55	105	67	90		
	Agro Processing	I	6	19	49	187	366	179	60	114	73	98		
	Readymade Garments	F	0	2	4	19	50	95	7	34	11	21		
_	Readymade Garments	I	0	0	1	4	11	20	2	34	2	4		
	Other manufacturing goods	F	26	88	244	842	1744	1580	320	479	395	629		
53	Other manufacturing goods	I	7	25	69	239	231	631	91	228	112	178		

			13	14	15	16	17	18	19	20	21	22	23	24
54	Construction	I	0	0	0	0	0	0	0	0	0	0		
55	Other Services	F	47	291	603	3254	19292	26795	2985	9516	3864	8865		
56	Other Services	I	26	158	328	1768	6379	20728	1622	4657	2099	3264		
57	Government Services	F	0	0	0	0	0	0	0	0	0	0		
	Agriculture	I												13157
59	Agro Processing	F												6553
60	Agro Processing	I												5139
	Readymade Garments	F												7090
	Readymade Garments	I												2301
	Other manufacturing goods	F												53094
	Other manufacturing goods	I												22031
	Construction	I												0
	Other Services	F												62632
_	Other Services	I												38715
	Government Services	F												0
	Rural Poor - Non Agri	F	1876											
	Rural Non Poor - Non Agri	F		10526										
, , ,	Urban Poor	F			12828									
1	Urban Non Poor	F				122163								
	Rural Poor - Agri	I					-2509							
	Rural Non Poor - Agri	I						6906						
	Rural Poor - Non Agri	I							59214					
76	Rural Non Poor - Non Agri	I								162544				
77	Urban Poor	I									17259			
	Urban Non Poor	I										54292		
	Households		1876	10526	12828	122163	-2509	6906	59214	162544	17259	54292		
	Private												-17325	
_	Rest of World													1963
82	TOTAL		5308	23011	46483	279892	346726	434336	121551	311821	99011	199880	466031	265806

			25	26	27	28	29	30	31	32	33	34	35
	Lab Cas - Female	I	72762	898	1356	66			2897	5638		7057	5830
_	Lab Cas - Male	I	155749	1543	3103	357	309	17442	15610	70863	17807	72731	32647
3	Lab HB - Female	I	0	0	338	0	7	0	615	0	0	625	0
4	Lab HB - Male	I	0	0	438	0	27	0	2184	0	0	7189	0
5	Lab Reg - Female	F	0	530	0	168	0	1432	0	0	21304	0	39058
6	Lab Reg - Male	F	0	3395	0	658	0	33047	0	0	99433	0	182299
7	OAW - Female	I	68553	6207	1209	582	34	19735	958	215	31722	6247	0
8	OAW - Male	I	159958	7403	3220	2021	378	96829	20025	28914	264612	126414	0
9	OAW - HB - Female	I	0	0	4199	0	173	0	4689	0	0	5305	0
10	OAW - HB - Male	I	0	0	2667	0	289	0	20306	0	0	45643	0
11	Employer - Female	F	0	0	0	0	0	72	0	0	4	0	0
12	Employer - Male	F	0	128	0	93	0	1773	0	0	707	0	0
13	Rural Poor - Non Agri	F											
14	Rural Non Poor - Non Agri	F											
15	Urban Poor	F											
16	Urban Non Poor	F											
17	Rural Poor - Agri	I											
18	Rural Non Poor - Agri	I											
19	Rural Poor - Non Agri	I											
20	Rural Non Poor - Non Agri	I											
21	Urban Poor	ı											
22	Urban Non Poor	I											
	Government		3525	2694	787	198	61	69329	3205	-190	42332	26165	115299
	Rest of World												

			25	26	27	28	29	30	31	32	33	34	35
25	Agriculture	I											
	Agro Processing	F											
27	Agro Processing	I											
28	Readymade Garments	F											
29	Readymade Garments	I											
30	Other manufacturing goods	F											
31	Other manufacturing goods	I											
32	Construction	I											
33	Other Services	F											
34	Other Services	I											
35	Government Services	F											
	Agriculture	I	57744	39303	30270	250	81	28301	13296	5974	22293	13780	29081
37	Agro Processing	F	2633	3104	2388	3	1	296	139	2	2216	1369	101
38	Agro Processing	I	3104	2456	1912	2	2	224	106	1	1841	1139	85
39	Readymade Garments	F	0	0	0	17	6	72	33	0	90	56	15
40	Readymade Garments	I	0	0	0	6	2	25	11	0	29	18	5
41	Other manufacturing goods	F	15150	4394	3460	5415	1758	197858	73901	53673	88118	54468	14591
42	Other manufacturing goods	I	6558	1827	1444	2482	806	82224	32996	23450	35425	21897	5346
	Construction	I	3163	248	205	31	10	2233	886	1904	19682	12166	8279
44	Other Services	F	16938	9972	7694	1899	616	85997	33698	27737	103350	63884	31280
	Other Services	I	10470	6163	4756	1174	381	53157	20829	17144	63883	39488	19335
46	Government Services	F	0	0	0	0	0	0	0	0	0	0	0
47	Agriculture	I											
	Agro Processing	F											
	Agro Processing	I											
	Readymade Garments	F											
51	Readymade Garments	I											
52	Other manufacturing goods	F											
53	Other manufacturing goods	I											

			25	26	27	28	29	30	31	32	33	34	35
	Construction												
	Other Services	F											
	Other Services	l											
57	Government Services	F											
58	Agriculture	l											
59	Agro Processing	F											
60	Agro Processing	I											
		F											
62	Readymade Garments	l											
	Other manufacturing goods	F											
	Other manufacturing goods	l											
	Construction	l											
	Other Services	F											
	Other Services	l											
	Government Services	F											
	Rural Poor -Non Agri	F											
	Rural Non Poor - Non Agri	F											
	Jrban Poor	F											
	Jrban Non Poor	F											
_	Rural Poor - Agri	l											
	Rural Non Poor - Agri	I											
1	Rural Poor -Non Agri	l											
	Rural Non Poor - Non Agri	l											
	Jrban Poor	l											
	Jrban Non Poor	l											
	Households												
	Private												
	Rest of World												
82	TOTAL		576307	90265	69446	15422	5004	692995	246384	235325	818028	505641	483251

		36	37	38	39	40	41	42	43	44	45	46
1 Lab Cas - Female	I											
2 Lab Cas - Male	I											
3 Lab HB - Female	I											
4 Lab HB - Male	I											
5 Lab Reg - Female	F											
6 Lab Reg - Male	F											
7 OAW - Female	I											
8 OAW - Male	I											
9 OAW - HB - Female	I											
10 OAW - HB - Male	I											
11 Employer - Female	F											
12 Employer - Male	F											
13 Rural Poor - Non Agri	F											
14 Rural Non Poor - Non Agri	F											
15 Urban Poor	F											
16 Urban Non Poor	F											
17 Rural Poor - Agri	I											
18 Rural Non Poor - Agri	I											
19 Rural Poor - Non Agri	I											
20 Rural Non Poor - Non Agri	I											
21 Urban Poor	I											
22 Urban Non Poor	I											
23 Government		0	764	581	5	1	23037	7628	0	0	0	0
24 Rest of World		6378	1982	1517	620	201	167466	61644	0	16002	9891	0

			36	37	38	39	40	41	42	43	44	45	46
25	Agriculture	I	576307										
26	Agro Processing	F		90265									
27	Agro Processing	I			69446								
28	Readymade Garments	F				15422							
29	Readymade Garments	I					5004						
	Other manufacturing goods							692995					
31	Other manufacturing goods	I							246384				
	Construction	I								235325			
	Other Services	F									818028		
	Other Service s	I										505641	
	Government Services	F											483251
	Agriculture	I											
_	Agro Processing	F											
	Agro Processing	I											
	Readymade Garments	F											
	Readymade Garments	I											
	Other manufacturing goods												
	Other manufacturing goods	l											
	Construction	I											
	Other Services	F											
	Other Services	I											
	Government Services	F											
	Agriculture	I											
	Agro Processing	F											
	Agro Processing	I											
	Readymade Garments	F											
	Readymade Garments	I											
	Other manufacturing goods												
53	Other manufacturing goods	I											

			36	37	38	39	40	41	42	13 44	45	46
	Construction	I										
55	Other Services	F										
	Other Services	I										
57	Government Services	F										
	Agriculture	I										
59	Agro Processing	F										
60	Agro Processing	I										
	Readymade Garments	F										
62	Readymade Garments	I										
	Other manufacturing goods	F										
	Other manufacturing goods	ı										
	Construction	I										
	Other Services	F										
	Other Services	I										
	Government Services	F										
	Rural Poor - Non Agri	F										
	Rural Non Poor - Non Agri	F										
	Urban Poor	F										
	Urban Non Poor	F										
_	Rural Poor - Agri	Ι										
	Rural Non Poor - Agri	Ι										
	Rural Poor - Non Agri	ı										
	Rural Non Poor - Non Agri	I										
	Urban Poor	I										
	Urban Non Poor	I										
	Households											
	Private						_				_	
	Rest of World						_				_	
82	TOTAL		582685	93011	71544	16047	5206	883498	315656 2353	25 834030	515532	483251

		47	48	49	50	51	52	53 5	4 55	56	57
1 Lab Cas - Female	I										
2 Lab Cas - Male	I										
3 Lab HB - Female	I										
4 Lab HB - Male	I										
5 Lab Reg - Female	F										
6 Lab Reg - Male	F										
7 OAW - Female	I										
8 OAW - Male	I										
9 OAW - HB - Female	I										
10 OAW - HB - Male	I										
11 Employer - Female	F										
12 Employer - Male	F										
13 Rural Poor - Non Agri	F										
14 Rural Non Poor - Non Agri	F										
15 Urban Poor	F										
16 Urban Non Poor	F										
17 Rural Poor - Agri	I										
18 Rural Non Poor - Agri	I										
19 Rural Poor - Non Agri	I										
20 Rural Non Poor - Non Agri	I										
21 Urban Poor	I										
22 Urban Non Poor	I										
23 Government		0	1080	1151	243	79	6346	1810	0 75512	41028	0
24 Rest of World											

		47	48	49	50	51	52	53	54	55	56	57
25 Agriculture	I											
26 Agro Processing	F											
27 Agro Processing	I											
28 Readymade Garments	F											
29 Readymade Garments	I											
30 Other manufacturing goods	F											
31 Other manufacturing goods	I											
32 Construction	I											
33 Other Services	F											
34 Other Services	I											
35 Government Services	F											
36 Agriculture	I											
37 Agro Processing	F											
38 Agro Processing	I											
39 Readymade Garments	F											
40 Readymade Garments	I											
41 Other manufacturing goods												
42 Other manufacturing goods	I											
43 Construction	I											
44 Other Services	F											
45 Other Services	I											
46 Government Services	F											
47 Agriculture	I											
48 Agro Processing	F											
49 Agro Processing	Ī											
50 Readymade Gaments	F											
51 Readymade Garments	I											
52 Other manufacturing goods												
53 Other manufacturing goods	I											

			47	48	49	50	51	52	53	54 55	56	57
	Construction	I										
55	Other Services	F										
	Other Services	I										
57	Government Services	F										
	Agriculture	I										
59	Agro Processing	F										
60	Agro Processing	I										
	Readymade Garments	F										
	Readymade Garments	I										
	Other manufacturing goods	F										
	Other manufacturing goods	l										
	Construction	l										
	Other Services	F										
	Other Services	l										
	Government Services	F										
	Rural Poor - Non Agri	F										
	Rural Non Poor - Non Agri	F										
	Urban Poor	F										
	Urban Non Poor	F										
	Rural Poor - Agri	I										
	Rural Non Poor - Agri	I										
	Rural Poor - Non Agri	I										
	Rural Non Poor - Non Agri	l										
	Urban Poor	I										
	Urban Non Poor	I										
	Households											
	Private											
	Rest of World											
82	TOTAL		0	1080	1151	243	79	6346	1810	0 75512	41028	0

		58	59	60	61	62	63	64	65	66	67	68
1 Lab Cas - Female	I											
2 Lab Cas - Male	I											
3 Lab HB - Female	I											
4 Lab HB - Male	I											
5 Lab Reg - Female	F											
6 Lab Reg - Male	F											
7 OAW - Female	I											
8 OAW - Male	I											
9 OAW - HB - Female	I											
10 OAW - HB - Male	I											
11 Employer - Female	F											
12 Employer - Male	F											
13 Rural Poor - Non Agri	F											
14 Rural Non Poor - Non Agri	F											
15 Urban Poor	F											
16 Urban Non Poor	F											_
17 Rural Poor - Agri	I											
18 Rural Non Poor - Agri	I											
19 Rural Poor - Non Agri	I											
20 Rural Non Poor - Non Agri	I											
21 Urban Poor	I											
22 Urban Non Poor	I											
23 Government												
24 Rest of World												_

			58	59	60	61	62	63	64	65	66	67	68
25	Agriculture	I											
26	Agro Processing	F											
27	Agro Processing	l											
	Readymade Garments	F											
	Readymade Garments	I											
30	Other manufacturing goods	F											
31	Othermanufacturing goods	I											
	Construction	I											
	Other Services	F											
	Other Services	I											
	Government Services	F											
	Agriculture	I	13157										
	Agro Processing	F		6553									
	Agro Processing	I			5139								
	Readymade Garments	F				7090							
	Readymade Garments	I					2301						
	Other manufacturing goods							53094					
	Other manufacturing goods	I							22031				
	Construction	l								0			
	Other Services	F									62632		
	Other Services	I										38715	
	Government Services	F											0
	Agriculture	I											
	Agro Processing	F											
49	Agro Processing	l											
	Readymade Garments	F											
	Readymade Garments	I											
	Othermanufacturing goods												
53	Other manufacturing goods	I											

			58	59	60	61	62	63	64	66	67	68
	Construction	I										
55	Other Services	F										
	Other Services	I										
57	Government Services	F										
	Agriculture	I										
59	Agro Processing	F										
60	Agro Processing	I										
	Readymade Garments	F										
	Readymade Garments	I										
	Other manufacturing goods	F										
	Other manufacturing goods	l										_
	Construction	l										_
	Other Services	F										_
	Other Services	l										_
	Government Services	F										_
	Rural Poor - Non Agri	F										
	Rural Non Poor - Non Agri	F										
	Urban Poor	F										
	Urban Non Poor	F										
_	Rural Poor - Agri											
	Rural Non Poor - Agri											
	Rural Poor - Non Agri	_										
	Rural Non Poor - Non Agri	l										_
	Urban Poor	I										
	Urban Non Poor											
	Households											
	Private											
	Rest of World											
82	TOTAL		13157	6553	5139	7090	2301	53094	22031	0 62632	38715	0

		69	70	71	72	73	74	75	76	77	78	79
1 Lab Cas - Female	I											
2 Lab Cas - Male	I											
3 Lab HB - Female	I											
4 Lab HB - Male	I											
5 Lab Reg - Female	F											
6 Lab Reg - Male	F											
7 OAW - Female	I											
8 OAW - Male	I											
9 OAW - HB - Female	I											
10 OAW - HB - Male	I											
11 Employer - Female	F											
12 Employer - Male	F											
13 Rural Poor - Non Agri	F											
14 Rural Non Poor - Non Agri	F											
15 Urban Poor	F											
16 Urban Non Poor	F											
17 Rural Poor - Agri	I											
18 Rural Non Poor - Agri	I											
19 Rural Poor - Non Agri	I											
20 Rural Non Poor - Non Agri	I											
21 Urban Poor	I											
22 Urban Non Poor	I											
23 Government												
24 Rest of World												

		69	70	71	72	73	74	75	76	77	78	79
25 Agriculture	I											
26 Agro Processing	F											
27 Agro Processing	I											
28 Readymade Garments	F											
29 Readymade Garments	I											
30 Other manufacturing goods												
31 Other manufacturing goods	I											
32 Construction	I											
33 Other Services	F											
34 Other Services	I											
35 Government Services	F											
36 Agriculture	I											
37 Agro Processing	F											
38 Agro Processing	I											
39 Readymade Garments	F											
40 Readymade Garments	I											
41 Other manufacturing goods												
42 Other manufacturing goods	I											
43 Construction	I											
44 Other Services	F											
45 Other Services	I											
46 Government Services	F											
47 Agriculture	I											
48 Agro Processing	F											
49 Agro Processing	I											
50 Readymade Garments	F											
51 Readymade Garments	I											
52 Other manufacturing goods												
53 Other manufacturing goods	I											

			69	70	71	72	73	74	75	76	77	78	79
54	Construction	l											
55	Other Services	F											
56	Other Services	l											
57	Government Services	F											
	Agriculture	I											
59	Agro Processing	F											
60	Agro Processing	l											
	Readymade Garments	F											
62	Readymade Garments	I											
63	Other manufacturing goods	F											
64	Other manufacturing goods	I											
	Construction	I											
66	Other Services	F											
67	Other Services	I											
68	Government Services	F											
	Rural Poor - Non Agri	F											
	Rural Non Poor - Non Agri	F											
	Urban Poor	F											
	Urban Non Poor	F											
_	Rural Poor - Agri	I											
	Rural Non Poor - Agri	I											
	Rural Poor - Non Agri	I											
	Rural Non Poor - Non Agri	I											
	Urban Poor	I											
	Urban Non Poor	I											
	Households												
	Private		1876	10526	12828	122163	-2509	6906	59214	162544	17259	54292	445099
	Rest of World									İ			
82	TOTAL		1876	10526	12828	122163	-2509	6906	59214	162544	17259	54292	445099

			80	81	82
1	Lab Cas - Female	I			102696
2	Lab Cas - Male	I			388161
3	Lab HB - Female	I			1585
4	Lab HB - Male	I			9838
	Lab Reg - Female	F			62492
6	Lab Reg - Male	F			318832
7	OAW - Female	I			135462
8	OAW - Male	I			709774
9	OAW - HB - Female	I			14366
10	OAW - HB - Male	I			68905
11	Employer - Female	F			76
	Employer - Male	F			2701
13	Rural Poor -Non Agri	F			5308
	Rural Non Poor - Non Agri	F			23011
	Urban Poor	F			46483
16	Urban Non Poor	F			279892
17	Rural Poor - Agri	I			346726
18	Rural Non Poor - Agri	I			434336
19	Rural Poor - Non Agri	I			121551
20	Rural Non Poor - Non Agri	I			311821
21	Urban Poor	I			99011
22	Urban Non Poor	I			199880
23	Government				466031
24	Rest of World				265806

			80	81	82
25	Agriculture	I			576307
	Agro Processing	F			90265
27	Agro Processing	l			69446
28	Readymade Garments	F			15422
29	Readymade Garments	I			5004
30	Other manufacturing goods	F			692995
31	Other manufacturing goods	I			246384
32	Construction	I			235325
33	Other Services	F			818028
	Other Services	I			505641
35	Government Services	F			483251
36	Agriculture	I	2888		582685
37	Agro Processing	F	3800		93011
38	Agro Processing	I	3000		71544
39	Readymade Garments	F	5000		16047
40	Readymade Garments	ı	1000		5206
41	Other manufacturing goods	F	104612		883498
42	Other manufacturing goods	I	26266		315656
	Construction	I	186518		235325
44	Other Services	F	63222		834030
45	Other Services	l	33431		515532
46	Government Services	F	0		483251
47	Agriculture	I			C
48	Agro Processing	F			1080
	Agro Processing	I			1151
	Readymade Garments	F			243
51	Readymade Garments	I			79
_	Other manufacturing goods	F			6346
53	Other manufacturing goods	I			1810
<u> </u>	Construction				
54	Construction	1			C

55	Other Services	F			75512
56	Other Services	I			41028
57	Government Services	F			C
58	Agriculture	I			13157
59	Agro Processing	F			6553
60	Agro Processing	I			5139
61	Readymade Garments	F			7090
62	Readymade Garments	I			2301
63	Other manufacturing goods	F			53094
64	Other manufacturing goods	I			22031
65	Construction	I			C
66	Other Services	F			62632
67	Other Services	I			38715
68	Government Services	F			C
69	Rural Poor - Non Agri	F			1876
70	Rural Non Poor - Non Agri	F			10526
71	Urban Poor	F			12828
72	Urban Non Poor	F			122163
73	Rural Poor - Agri	I			-2509
74	Rural Non Poor - Agri	I			6906
75	Rural Poor - Non Agri	I			59214
76	Rural Non Poor - Non Agri	I			162544
77	Urban Poor	I			17259
78	Urban Non Poor	I			54292
79	Households				
	Private			1963	429737
	Rest of World				1963
82	TOTAL		429737	1963	13403357