### RURAL FARM AND NON-FARM EMPLOYMENT IN HARYANA

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### **ABSTRACT**

Rural Non-farm Sector has gained considerable importance. People opt for this kind of employment either because of better opportunities or because of declining income in farm sector. Thus, the Rural Non-Farm employment is used as alternative to reduce poverty and to achieve high economic growth in rural economy. In fact, majority of rural people engage in a variety of non-farm activities, while keeping farming their main occupation. This is an attempt to know the nature of rural non-farm employment in Haryana. The rural non-farm sector has undergone major restructuring in India as well as in Haryana after the start of liberalisaion-era in our country. But the emergence of rural non-farm sector is not providing equal opportunity to all sections of the society. To understand the achievement and failure of the sector for job creation we have to deeply analysis the present situation of the employment in the sector.

Key Words: Farm, Non-Farm, RNF, Employment, Rural, Agriculture

#### INTRODUCTION

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The rural economy was traditionally equated with agriculture economy. But this has changed with the rise in importance of the Rural Non-farm Sector (RNF). The RNF plays an important role in providing intermediate and capital goods for the use in farm sector to raise its productivity. This helps in releasing labour force from farm sector and raises their earnings. This in turn raises demand of non-farm goods and services in the agriculture and rural households. Since, most of rural farm households consist of small and medium sized land holdings, which in turn demand low-ended, low-cost products produced in small and medium sector. This sector is crucial for increased employment and incomeearning opportunities. The labour forces engaged in

production of goods and services enhance demand for farm products. Mellor (1976), Lanjouw (1999), Hazell and Haggblade (1990) etc. are of the view that rural household employment and income in RNF has increased rapidly over time. This renewed the interest of mainstream development economists and policymakers towards RNF sector as a potential source to improve productive employment in a situation when labour force is growing in rural area. With the result, the opinion of equating of rural economy with agriculture has changed rapidly as income composition from non-farm sector is assuming importance even among households having dominant source of income from farm sector.

The focus of this study is to understand the implications of these changes in farm and non-farm sector on the income and engagement pattern

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among rural households using NSSO household level data of 68th round . The income and employment from farm and non-farm sector among various social classes, education levels and gender is analyzed in this study for rural Haryana. In order to understand the rural employment in Haryana, it is however important to first look at the overall size of Haryana's labour force and employment in order and look at importance of rural employment in it

### THEORETICAL BACKGROUND

Most of the developing (UDC) countries, including India, have adopted development policies with conceptual framework in mind, that the process of structural transformation would shift from being predominantly rural, agrarian and subsistence economies to predominantly urban, industrial and capitalist economies. The historical evidence based models, such as that of Clark (1940), Rostow (1956) and Kuznets (1966) or development theories such as that of Lewis (1954) and Ranis and Fei (1961), provide explanations to this framework. These explanations given by these theories relate to the fact that as the economies grow, the structure changes with agriculture losing its predomination in the economy as industry gains importance. This is followed by an expansion of the share of services sector. Similarly, the labour force structure changes in the same manner from agriculture to industry and then to services. All this leads to a shift in production and employment from rural to increasingly urban locations. This however is quite different from the experience observed these days by several Under Developed Countries (UDCs). India has also witnessed pattern which are quite different from the models observed in the past by presently developed countries. India has witnessed very high growth since past three decades, with the result, the composition of various sector has also witnessed major changes. The share of agriculture and allied activities declined, while that of the service sector increased rapidly, whereas secondary sector witnessed only marginal changes.

Hymer and Resnick (1969)considered comprehensively the rural non-agricultural activities in their model for under developed economy. There are several other who expressed similar views by expressing that urban-led industrialization alone cannot deal with the unemployment and poverty problems of developing countries. This has pushed emphasis on stressing a strategy for small scale sector, rural non-farm sector and linkages between farm and non-farm sector (Mellor 1966, Meyer and Larson, 1978). Meyer and Larsen (1978) experienced from data that small scale sector and rural nonfarm sector engage large share of labour force and use limited amount of capital and foreign exchange.

There is increasing interest in the rural nonfarm activities these days because of worsening situation of employment in the developing countries after 1991. This is because of limited labour transfer into modern industrial and services sectors. The industrial sectors failure to create more employment avenues has created major problem sustainability of masses, which have to find avenues for employment for their subsistence. The problem got further compounded as agriculture sector has also lost its potential to absorb the existing supply of rural labour due to increasing mechanization. These factors left the RNF sector as the only main option to absorb the surplus labour force. There are economist (Meyer and Larson, 1978; Bhalla and Chadha, 1983; Chadha, 1986; Lanjouw, 1999; Mellor, 1976; Johnston and Kilby, 1975; Ranis and Stewart, 1993; Bhalla, 1993; Foster and Rosenweig, 2004; Lanjouw and Murgai, 2008) who are of strong opinion that RNF sector has a strong potential for absorbing the growing rural labour force and promoting more equitable distribution of rural incomes and will also enhance the national income growth. These economists also highlight the importance of skill formation for promotion of this sector in enhancing productivity of the RNF sector and hence decreasing the poverty. This sector could go a long way in making the village economy self-sustainable rather than pushing the increasing outflow of labour force to cities.

### **OBJECTIVES OF THE PAPER**

- 1. To examine the structure of Labour force in rural and urban Haryana.
- To analysis the major characteristics of Rural farm non-farm employment in both regions of Haryana.
- To examine major non-farm sectors and their capacity to generate employment in Rural Haryana.

#### **DATA**

In this paper, secondary data is taken from various statistical Abstracts of Haryana and NSSO's 68th round employment-unemployment surveys (EUS). A large set of households are covered under the quinquennial survey, covering different dimensions of employment and unemployment. The study has used the data as per requirements covering NSSO quinquinnial round 68th (2010-11) on Employment and Unemployment. To make it simpler we have constructed simple statistical tables at region or aggregate levels in different aspect. To study regional variation in Haryana, we have made two partitions of Haryana's state as NSSO does. The NSSO divides the area of the state into two regions, Eastern and Western, based on similar geographical features, rural population densities and crop pattern. Jind, Fatehabad, Sirsa, Hisar, Bhiwani, Mahendragarh and Rewari lie in the western region of Haryana. The Eastern region of the state consists districts namely Panchkula, Ambala, Yamunanagar, Kurukshetra, Kaithal, Karnal, Panipat, Sonipat, Rohtak, Jhajjar, Gurgaon, Mewat, Faridabad and Palwal. The geographical area of these two regions, the Eastern and the Western, are almost egual (22441and 21771 square km, respectively) but there are many variations in their socioeconomic conditions, particularly in the rural area. Here it must be noted that, in this paper, employment status is defined on the basis of usual principal and subsidiary (usual) status. Farmers and non-farmers are calculated on the basis of reported NIC 2008 employment status by estimated proportions from unit-level data in the 68th round of EUS data.

# STRUCTURE OF THE LABOUR FORCE IN HARYANA

After 1991, with economy undergoing several structural changes, the state of Haryana witnessed major shifts in GSDP over time. Although, the share of RNF in overall rural employment has increased from merely 40% in 1993-94 to 42.15% in 2011-12. This shift in employment share from farm sector to non-farm sector has not resulted in decline in agriculture production in Haryana. Haryana's population has raised approximately 2.2% per annum (p.a.) during 1991-2011. However, due to shift in migration of population from rural to urban area due to employment opportunities and changes in classification of rural areas into urban areas, the urban population grew slightly by more than 4% p.a., during the same period. For the same reason, the rural population has grown by 1.44% p.a.. Surprisingly, the dependent population on rural farm sector grew by merely 0.37%pa. Even with this marginal rise in dependent population (selfemployed or labourer) on farm, the size of average landholding per dependent family, (self-employed in agriculture) declined from 3.01 hectare, in 1991 to 1.96 hectare, in 2011. Therefore, the major rise in population in RNF sector grew by 2.41% p.a.. Surprisingly, the share of population dependent upon RNF sector as percentage of overall Haryana population has not undergone much change and increased from merely 36.0% to 37.5%. However, these changes in production composition have not resulted in bringing proportionate changes in the labour force employed in these sectors. More than half the labour force is engaged in agriculture sector, while it constitutes only fourteen percent share of GDP in the country. The tertiary sector with close to two-thirds of the GDP share, employ only one-fourth of the work force engaged in the economy. The structural characteristics of Haryana state economy are also not much different from Indian Economy particularly with reference to the population residing

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in rural area. The overall labour force structure shown in Table 1 which clearly explains that, out of total 85 lakh labour forces, 61 lakhs reside in rural area. Table 1 also explains that in Haryana women participation in labour forces has not improved. In urban area the situation of female participation is

worse than rural area. By the analysis of the Table 1 we can understand the importance of rural non-Farm sector to generate employment for all section of the society in Haryana when agriculture sector's role in GSDP is declining.

Table 1: Labour Force Structure in Haryana in 2011-12

	Rural			Urban			Overall		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
	4,742,521	1,237,551	5,980,072	2,003,697	335,582	2,339,279	6,746,218	1,573,133	8,319,351
Employed	79.31	20.69	100.00	85.65	14.35	100.00	81.09	18.91	100.00
	97.39	98.33	97.59	95.97	95.03	95.83	96.97	97.61	97.09
Unemployed	126,887	21,019	147,906	84,190	17,550	101,740	211,077	38,569	249,646
	85.79	14.21	100.00	82.75	17.25	100.00	84.55	15.45	100.00
	2.61	1.67	2.41	4.03	4.97	4.17	3.03	2.39	2.91
Total	4,869,408	1,258,570	6,127,978	2,087,887	353,132	2,441,019	6,957,295	1,611,702	8,568,997
	79.46	20.54	100.00	85.53	14.47	100.00	81.19	18.81	100.00
	100.00	100.00	100.00	100.00	100.00		100.00	100.00	

##First row has frequencies; second row has row %ages and third row has column %ages

Source: Derived using Household-wise data from NSSO of EUS, 68th Round, 2011-12

# MAIN CHARACTERISTICS OF RURAL EMPLOYMENT

### Distribution of Rural Employment in Haryana.

Haryana is one of the most advanced agricultural state in Indian states, but agriculture share in the state GSDP is continuously declining, even when employment opportunities are created in non-agriculture sectors in rural Haryana. By Table 2, it is clear that only 42.15 percent workers are engaged in non-agricultural activities. The situation is much worrisome in Western Haryana, where only 31 percent workers are involved in non-farm sectors. In Eastern Haryana, it is approximately 50 percent. As agriculture sector's production is very erratic so the income of the worker involved in it.

Table 2: Rural Farm Non-Farm Employment in Haryana in 2011-12

Employment	Eastern	Western	Overall Haryana
Agriworker	1,795,608	1,663,676	3,459,284
	50.22	69.19	57.85
Non AgriWorker	1,780,067	740,721	2,520,788
	49.78	30.81	42.15
Total	3,575,675	2,404,397	5,980,072
	100.00	100.00	100.00

##First row has frequencies; second row has column %ages

Source: Derived using Household-wise data from NSSO of EUS, 68th Round, 2011-12

### RURAL EMPLOYMENT IN DIFFERENT SOCIAL GROUPS

The Scheduled Caste (SC) population accounts for 31%, Other Backward Classes (OBC) 27% and General category around 42% of the rural population in Haryana. The percentage share of Schedule Tribe (ST) in the rural population of Haryana is minuscule, accounting for merely 0.47%. All the social groups in both the regions have not got equal chance to select their work sectors. As per information of Table 3, 70

percent people from General category are working in farm sectors. In opposite to this only 40 percent Schedule caste workers are working in the sector. The main reason behind SC caste's 60 percent workers working in RNF sector is 'Push factors' because landholdings among Schedule Caste people are very less. They have not many option to live in agricultural sectors. The situation of social groups is not alike in both the regions. All the social groups are relatively more employed in RNF sector in Eastern region than Western Haryana.

Table 3: Rural Farm Non-Farm Employment in various Social Categories

Social	Eastern H	Eastern Haryana			Haryana		Overall Haryana		
	RFE	RNFE	Total	RFE	RNFE	Total	RFE	RNFE	Total
ST	14441	23951	38392	204	3035	3239	14645	26986	41631
	37.61	62.39	100	6.3	93.7	100	35.18	64.82	100
	0.8	1.35	1.07	0.01	0.41	0.13	0.42	1.07	0.7
SC	377318	707365	1084683	243345	236258	479603	620663	943623	1564286
	34.79	65.21	100	50.74	49.26	100	39.68	60.32	100
	21.01	39.74	30.34	14.63	31.9	19.95	17.94	37.43	26.16
ОВС	442930	392788	835718	337219	295376	632595	780149	688164	1468313

	53	47	100	53.31	46.69	100	53.13	46.87	100
	24.67	22.07	23.37	20.27	39.88	26.31	22.55	27.3	24.55
General	960919	655963	1616882	1082908	206052	1288960	2043827	862015	2905842
	59.43	40.57	100	84.01	15.99	100	70.34	29.66	100
	53.51	36.85	45.22	65.09	27.82	53.61	59.08	34.2	48.59
Total	1795608	1780067	3575675	1663676	740721	2404397	3459284	2520788	5980072
	50.22	49.78	100	69.19	30.81	100	57.85	42.15	100
	100	100	100	100	100	100	100	100	100

Source: Derived using Household-wise data from NSSO of EUS, 68th Round, 2011-12

### EDUCATION LEVEL AND RURAL EMPLOYMENT IN HARYANA.

Education levels of a person affect their choice of employment. It is considered that more educated people get more options to choose their working area. Table 4 show the employment status of rural Haryana in three educational categories. The first category is of those workers, whose qualification is up to matric level. Almost 65 percent of total rural workers lie in this category. 60 percent under matric workers are working in agriculture sector. "Low skill"

is a major obstacle to shift from farm to Non-Farm sector. The second category is of those workers, whose qualifications lie above matric and up to graduation level. In the second category, 6 percent more worker chose RNF sectors in comparison with the first educational group of up to matric. But region wise it is not true. Third category is of those workers, whose education level is post-graduation and above. In the third category, more workers are in non-agricultural sectors than agriculture. However, number of the third category workers is only 5.26% of total rural workers.

Table 4: Rural Farm Non-Farm Employment in Different Educational Categories

Education	Eastern H	Eastern Haryana			Western Haryana			Overall Haryana		
	RFE	RNFE	Total	RFE	RNFE	Total	RFE	RNFE	Total	
Under matric	1197283	1041297	2238580	1162591	492671	1655262	2359874	1533968	3893842	
	53.48	46.52	100	70.24	29.76	100	60.61	39.39	100	
	66.68	58.5	62.61	69.88	66.51	68.84	68.22	60.85	65.11	
Matric to Graduate	522019	636719	1158738	443835	169350	613185	965854	806069	1771923	
	45.05	54.95	100	72.38	27.62	100	54.51	45.49	100	

	29.07	35.77	32.41	26.68	22.86	25.5	27.92	31.98	29.63
Post Graduate and above	76306	102051	178357	57250	78700	135950	133556	180751	314307
	42.78	57.22	100	42.11	57.89	100	42.49	57.51	100
	4.25	5.73	4.99	3.44	10.62	5.65	3.86	7.17	5.26
Total	1795608	1780067	3575675	1663676	740721	2404397	3459284	2520788	5980072
	50.22	49.78	100	69.19	30.81	100	57.85	42.15	100
	100	100	100	100	100	100	100	100	100

Source: Derived using Household-wise data from NSSO of EUS, 68th Round, 2011-12

### GENDER PARTICIPATION IN RURAL EMPLOYMENT IN HARYANA

Women workers constitute about 19 per cent of the Haryana's workforce. Most of these women workers are based in rural Haryana. It is very surprising to note in Table 5 that 50 percent male worker and 86 per cent women worker in rural Haryana are working in agrarian sector. In western Haryana most of the female worker have opted agriculture as their working place. More than 91 percent women worker

are employed in the farm sector. Workers in rural Haryana, a majority of who are illiterate and unskilled, have few opportunities but to engage in agricultural activities. It appears that while men often manage to move out into other activities or migrate to other areas in search of work, women have fewer options. They remain as a flexible labour force in agriculture as self-employment, casual agricultural labour or unpaid domestic workers. There is need of some pull factor policy for transition of women workers' employment from farm sector to RNF sector, to raise their living standards.

Table 5: Gender wise Rural Farm Non-Farm Employment

Gender	Eastern Haryana			Western	Haryana		Overall Haryana		
	RFE	RNFE	Total	RFE	RNFE	Total	RFE	RNFE	Total
Male	1172625	1649576	2822201	1222149	698171	1920320	2394774	2347747	4742521
	41.55	58.45	100	63.64	36.36	100	50.5	49.5	100
	65.31	92.67	78.93	73.46	94.26	79.87	69.23	93.14	79.31
Female	622983	130491	753474	441527	42550	484077	1064510	173041	1237551
	82.68	17.32	100	91.21	8.79	100	86.02	13.98	100

	34.69	7.33	21.07	26.54	5.74	20.13	30.77	6.86	20.69
Total	1795608	1780067	3575675	1663676	740721	2404397	3459284	2520788	5980072
	50.22	49.78	100	69.19	30.81	100	57.85	42.15	100
	100	100	100	100	100	100	100	100	100

Source: Derived using Household-wise data from NSSO of EUS, 68th Round, 2011-12

# LAND HOLDING CATEGORIES AND RURAL EMPLOYMENT IN HARYANA

To understand the land ownership impact on choice of worker to join particular sector. If nonagricultural activities provide good earning in rural area then definitely large-size land owner will join it because they have investment capacity, also if it requires investing. We have categorized four type of worker as per their land ownership. The farm size groups are Landless (0= ha), Small (0.1–2 ha), Medium (2–4 ha), Large (ha >4). Table 6 explains that Medium and Large land holding worker prefer to work in farm sector. It is a clear sign that there is no pull factor to transition the worker from agricultural activities to non-agricultural activities.

Table 6: Rural Farm Non-Farm Employment in different land holding categories

Land Holding	Eas	stern Harya	ana	Wes	tern Hary	yana	Overall Haryana		
	RFE	RNFE	Total	RFE	RNFE	Total	RFE	RNFE	Total
Landless	0	179474	179474	-	-	-	0	179474	179474
	0	100	100	-	-	-	0	100	100
	0	10.23	5.08	-	-	-	0	7.29	3.06
Small	1204929	1504842	2709771	880495	674379	1554874	2085424	2179221	4264645
	44.47	55.53	100	56.63	43.37	100	48.9	51.1	100
	67.85	85.78	76.76	54.41	95.22	66.84	61.45	88.5	72.82
Medium	431509	59969	491478	487135	5479	492614	918644	65448	984092
	87.8	12.2	100	98.89	1.11	100	93.35	6.65	100
	24.3	3.42	13.92	30.1	0.77	21.18	27.07	2.66	16.8
Large	139318	10027	149345	250514	28364	278878	389832	38391	428223
	93.29	6.71	100	89.83	10.17	100	91.03	8.97	100
	7.85	0.57	4.23	15.48	4	11.99	11.49	1.56	7.31
Total	1775756	1754312	3530068	1618144	708222	2326366	3393900	2462534	5856434
	50.3	49.7	100	69.56	30.44	100	57.95	42.05	100

Source: Derived using Household-wise data from NSSO of EUS, 68th Round, 2011-12

# RURAL EMPLOYMENT IN DIFFERENT AGE GROUP.

As age increases, worker experience increases to choose his choice of working area more consciously. Table 7 is prepared to understand rural Haryana

worker working space in different age categories. The table shows that in young worker RNFE is more preferable than farm sector. But the stories go opposite with mature age group. The age group of 45 years and above, more than 70 percent worker join farm sector.

Table 7: Rural Farm Non-Farm Employment in different Age Categories

Age Cat	Eas	stern Harya	ana	Wes	tern Hary	yana	Overall Haryana		
	RFE	RNFE	Total	RFE	RNFE	Total	RFE	RNFE	Total
15 to 29	441397	813505	1254902	458025	243339	701364	899422	1056844	1956266
	35.17	64.83	100	65.3	34.7	100	45.98	54.02	100
	24.58	45.7	35.1	27.53	32.85	29.17	26	41.93	32.71
30 to 44	660426	615413	1275839	593212	292527	885739	1253638	907940	2161578
	51.76	48.24	100	66.97	33.03	100	58	42	100
	36.78	34.57	35.68	35.66	39.49	36.84	36.24	36.02	36.15
45 and above	693785	351149	1044934	612439	204855	817294	1306224	556004	1862228
	66.4	33.6	100	74.93	25.07	100	70.14	29.86	100
	38.64	19.73	29.22	36.81	27.66	33.99	37.76	22.06	31.14
Total	1795608	1780067	3575675	1663676	740721	2404397	3459284	2520788	5980072

50.22	49.78	100	69.19	30.81	100	57.85	42.15	100
100	100	100	100	100	100	100	100	100

Source: Derived using Household-wise data from NSSO of EUS, 68th Round, 2011-12

# MAJOR RURAL NON-FARM EMPLOYMENT SECTORS IN HARYANA

In rural Haryana only 6 percent female worker work in RNF sectors, out of total 25 lakh working people. We have categorized RNF sectors in major five parts i.e. Manufacturing, Construction, Trading, Transport, Others. The first most employable sector is Construction sector (33.5%). The second is

manufacturing sector with 23.2% share in RNF employment. Remaining Trading, Transport and Others comes with 15.6%, 8.6% and 19.7 % share respectively. Trading and Transport sectors is almost fully controlled by males. The poor performance of female in RNF sectors indicates the gender barriers to get employment in RNF sectors. Table 8 also indicates that the sectors where special skill required to work, male is dominating to female. To increase the role of women in RNF sector, special attention is required.

Table 8: Rural Non Farm Employment in Various Sectors in Haryana in 2011-12

RECODE of PSNic2008	Male	Female	Total
Manufacturing	93.07	6.93	100.00
	22.96	26.99	23.20
Construction	95.22	4.78	100.00
	33.89	26.83	33.47
Trading	99.65	0.35	100.00
	16.54	0.93	15.61
Transport	97.84	2.16	100.00
	9.00	3.13	8.65
Others	86.84	13.16	100.00

	17.61	42.12	19.07
Total	94.04	5.96	100.00
	100.00	100.00	100.00

##First row has row %ages and Second row has column %ages

Source: Derived using Household-wise data from NSSO of EUS, 68th Round, 2011-12

### **CONCLUSION**

The proportion of workers engaged in RNF sector in Haryana has not improved despite all the efforts at diversification of rural occupational structure over the past many years. Even after surrounding Delhi, Haryana's policy makers have been unable to transit the labour force from agriculture to non-agricultural sectors. It is very much clear that, even after twenty year later, after major economic reform, employment opportunity in RNF sector has not improved. It seems that it requires a massive development of social, educational, and physical infrastructure in the rural areas. There is urgent need to study the major bottleneck/barriers and eradicate them as early as possible by adopting suitable policy measures.

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